INDEX OF
HAZARDOUS CHEMICALS & PRODUCTS

5016 Pacific Highway
Ferndale, WA98248
Phone: 1-888-443-3748
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Safety Data Sheet

according to Regulation (EC) No 1907/2006

1. Identification

Product number	**1155-12**
Product identifier	**2P-10 Activator (Aerosol)**
Company information	FASTCAP LLC 5016 PACIFIC HIGHWAY FERNDALE, WA 98248 United States
Company phone	General Assistance +1 360-752-2138
Emergency telephone US	Chemtrec (Domestic North America): +1 800-424-9300
Emergency telephone outside US	Chemtrec (International): +1 703-527-3887
Version #	01
Recommended use	Lubricant
Recommended restrictions	None known.

2. Hazard(s) identification

Physical hazards	Flammable aerosols	Category 1
Health hazards	Serious eye damage/eye irritation	Category 2A
	Sensitization, skin	Category 1
	Carcinogenicity	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements

Signal word	Danger
Hazard statement	Extremely flammable aerosol. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer.

Precautionary statement

Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing gas. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Specific treatment (see this label). If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Not available.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Butane		106-97-8	40 - 60
Acetone		67-64-1	20 - 40
Propane		74-98-6	10 - 20
Hydroquinone		123-31-9	0.1 - 1
Other components below reportable levels			1 - 2.5

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Call a physician or Poison Control Center immediately. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact
Immediately take off all contaminated clothing. Call a physician or Poison Control Center immediately. Get medical attention if irritation develops or persists. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact
If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Call a physician or Poison Control Center immediately.

Ingestion
If material is ingested, immediately contact a poison control center. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Most important symptoms/effects, acute and delayed
Dermatitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction.

Indication of immediate medical attention and special treatment needed
Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information
IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media
Powder. Alcohol resistant foam. Carbon dioxide (CO2).

Unsuitable extinguishing media
Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical
Contents under pressure. Pressurized container may explode when exposed to heat or flame. Fire may produce irritating, corrosive and/or toxic gases.

Special protective equipment and precautions for firefighters
Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection.

Fire-fighting equipment/instructions
In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Move containers from fire area if you can do it without risk. Do not direct water at source of leak or safety devices; icing may occur. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods
Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. In the event of fire and/or explosion do not breathe fumes.

General fire hazards
Extremely flammable aerosol.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering. Keep out of low areas. Pay attention to flashback. Wear appropriate protective equipment and clothing during clean-up. Stay upwind. Avoid breathing gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Prevent entry into waterways, sewers, basements or confined areas. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Keep out of low areas. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. If possible, turn leaking containers so that gas escapes rather than liquid. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Clean contaminated surface thoroughly.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). For waste disposal, see section 13 of the SDS. This material and its container must be disposed of as hazardous waste.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not get this material in contact with eyes. Avoid breathing gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep locked-up. Level 3 Aerosol.

Keep away from heat, sparks, and flame. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. The pressure in sealed containers can increase under the influence of heat. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Keep in a well-ventilated place. This material can accumulate static charge which may cause spark and become an ignition source. Keep this material away from food, drink and animal feed. Refrigeration recommended. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS). Level 3 Aerosol.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Acetone (CAS 67-64-1)	PEL	2400 mg/m3 1000 ppm
Hydroquinone (CAS 123-31-9)	PEL	2 mg/m3
Propane (CAS 74-98-6)	PEL	1800 mg/m3 1000 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Acetone (CAS 67-64-1)	STEL	750 ppm
	TWA	500 ppm
Butane (CAS 106-97-8)	STEL	1000 ppm
Hydroquinone (CAS 123-31-9)	TWA	1 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Acetone (CAS 67-64-1)	TWA	590 mg/m3 250 ppm
Butane (CAS 106-97-8)	TWA	1900 mg/m3 800 ppm
Hydroquinone (CAS 123-31-9)	Ceiling	2 mg/m3
Propane (CAS 74-98-6)	TWA	1800 mg/m3 1000 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*

* - For sampling details, please see the source document.

Exposure guidelines No Exposure standards allocated.

Appropriate engineering controls Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Do not get this material in contact with eyes.

Hand protection Wear appropriate chemical resistant gloves.

Skin protection

Other Do not get this material in contact with skin. Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves. Use of an impervious apron is recommended.

Skin protection

Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Do not get this material in contact with eyes. When using do not smoke. Do not get this material in contact with skin. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical state Gas.

Form Aerosol.

Color Not available.

Odor Not available.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Flash point -156.0 °F (-104.4 °C) Propellant estimated

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%)	Not available.
Vapor pressure	55 - 75 psig @70F estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Specific gravity	0.65 estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Risk of explosion.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Acids. Strong oxidizing agents. Nitrates. Fluorine. Chlorine. Do not mix with other chemicals.
Hazardous decomposition products	May include oxides of carbon. No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Narcotic effects.
Skin contact	May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Dermatitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction.

Information on toxicological effects

Acute toxicity Acute LD50: 52214 mg/kg, Rat, Dermal
Narcotic effects. May cause an allergic skin reaction.

Product	Species	Test Results
12 OZ 2P-10 PROF WOOD ACTIVATOR NL 12PK (CAS Mixture)		
Acute		
Dermal		
LD50	Rat	52214 mg/kg
Inhalation		
LC50	Rat	168 mg/l/4h
Oral		
LD50	Rat	

Components	Species	Test Results
Acetone (CAS 67-64-1)		
Acute		
Dermal		
LD50	Guinea pig	> 7426 mg/kg, 24 Hours
		> 9.4 ml/kg, 24 Hours
	Rabbit	> 7426 mg/kg, 24 Hours

Components	Species	Test Results
		> 9.4 ml/kg, 24 Hours
		20 mg/kg
Inhalation		
LC50	Rat	55700 ppm, 3 Hours
		132 mg/l, 3 Hours
		50.1 mg/l
Oral		
LD50	Mouse	3000 mg/kg
	Rabbit	5340 mg/kg
	Rat	5800 mg/kg
		2.2 ml/kg
Other		
LD50	Mouse	1297 mg/kg
	Rat	5500 mg/kg
Butane (CAS 106-97-8)		
Acute		
Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	1355 mg/l
Hydroquinone (CAS 123-31-9)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
	Rat	> 900 mg/kg, 24 Hours
Oral		
LD100	Rat	600 mg/kg
LD50	Rat	300 - 600 mg/kg
Other		
LD50	Mouse	160 mg/kg
	Rat	160 mg/kg
Propane (CAS 74-98-6)		
Acute		
Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	1355 mg/l
		658 mg/l/4h

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Not expected to be hazardous by OSHA criteria.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization May cause an allergic skin reaction. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Germ cell mutagenicity Not expected to be hazardous by OSHA criteria. Not expected to be hazardous by WHMIS criteria.

Carcinogenicity Suspected of causing cancer. Not expected to be hazardous by WHMIS criteria.

IARC Monographs. Overall Evaluation of Carcinogenicity

Hydroquinone (CAS 123-31-9) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Not expected to be hazardous by OSHA criteria.

Specific target organ toxicity - single exposure May cause drowsiness and dizziness.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not likely, due to the form of the product.

Chronic effects Prolonged or repeated exposure may cause lung injury.

12. Ecological information

Ecotoxicity LC50: 29.93 mg/L, Fish, 96.00 Hours
EC50: 31911 mg/L, Daphnia, 48.00 Hours

Product		Species	Test Results
12 OZ 2P-10 PROF WOOD ACTIVATOR NL 12PK (CAS Mixture)			
Aquatic			
Crustacea	EC50	Daphnia	31911 mg/L, 48 Hours
Fish	LC50	Fish	29.9346 mg/L, 96 Hours

Components		Species	Test Results
Acetone (CAS 67-64-1)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	21.6 - 23.9 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours
Hydroquinone (CAS 123-31-9)			
Aquatic			
Algae	IC50	Algae	13.5 mg/L, 72 Hours
Crustacea	EC50	Daphnia	0.29 mg/L, 48 Hours
		Water flea (Daphnia magna)	0.12 - 0.15 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.044 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

Acetone	-0.24
Butane	2.89
Hydroquinone	0.59
Propane	2.36

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Dispose of this material and its container at hazardous or special waste collection point. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

US RCRA Hazardous Waste U List: Reference

Acetone (CAS 67-64-1) U002

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

14. Transport information

DOT

UN number	UN1950
UN proper shipping name	Aerosols, flammable, (each not exceeding 1 L capacity)
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IATA

UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	10L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.
Packaging Exceptions	LTD QTY

IMDG

UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	F-D, S-U
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Packaging Exceptions	LTD QTY

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

DOT

IATA; IMDG

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetone (CAS 67-64-1)	Listed.
Hydroquinone (CAS 123-31-9)	Listed.

SARA 304 Emergency release notification

Hydroquinone (CAS 123-31-9)	100 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - Yes
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Hydroquinone	123-31-9	100		500 lbs	10000 lbs

SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Hydroquinone	123-31-9	0.1 - 1

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Hydroquinone (CAS 123-31-9)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8)
Propane (CAS 74-98-6)

Safe Drinking Water Act (SDWA)

Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Acetone (CAS 67-64-1)	6532

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1)	35 %WV

DEA Exempt Chemical Mixtures Code Number

Acetone (CAS 67-64-1)	6532

US state regulations

US. Massachusetts RTK - Substance List

Acetone (CAS 67-64-1)
Butane (CAS 106-97-8)
Hydroquinone (CAS 123-31-9)
Propane (CAS 74-98-6)

US. New Jersey Worker and Community Right-to-Know Act

Acetone (CAS 67-64-1)
Butane (CAS 106-97-8)
Hydroquinone (CAS 123-31-9)
Propane (CAS 74-98-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Acetone (CAS 67-64-1)
Butane (CAS 106-97-8)
Hydroquinone (CAS 123-31-9)
Propane (CAS 74-98-6)

US. Rhode Island RTK

Acetone (CAS 67-64-1)
Butane (CAS 106-97-8)
Hydroquinone (CAS 123-31-9)
Propane (CAS 74-98-6)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	04-06-2015
Version #	01

Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision Information	Product and Company Identification: Alternate Trade Names

5016 Pacific Highway
Ferndale, WA98248
Phone: 1-888-443-3748
Fax: 1-360-650-1075

Safety Data Sheet

according to Regulation (EC) No 1907/2006

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

2P-10 Activator

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Industrial and professional use.

Uses advised against

any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name:	FastCap LLC
Place:	5016 Pacific Highway Ferdale, WA 98248
Telephone:	+1 360-752-2138
Internet:	www.fastcap.com
Responsible Department:	info@fastcap.com

1.4. Emergency telephone number:

Chemtrec (Domestic North America): +1 800-424-9300
Chemtrec (International): +1 703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:
Flammable liquid: Flam. Liq. 2
Serious eye damage/eye irritation: Eye Irrit. 2
Specific target organ toxicity - single exposure: STOT SE 3
Hazard Statements:
Highly flammable liquid and vapour.
Causes serious eye irritation.
May cause drowsiness or dizziness.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazardous components which must be listed on the label

Acetone

Signal word: Danger

Pictograms:

Hazard statements

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P312	Call a POISON CENTER/doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use Water spray. Carbon dioxide. Extinguishing powder. Dry extinguishing powder. alcohol resistant foam. to extinguish.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of waste according to applicable legislation.

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
67-64-1	acetone; propan-2-one; propanone			50 - 100 %
	200-662-2	606-001-00-8		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
99-97-8	N,N-dimethyl-p-toluidine			1 - < 5 %
	202-805-4	612-056-00-9		
	Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT RE 2, Aquatic Chronic 3; H331 H311 H301 H373 ** H412			

Full text of H and EUH statements: see section 16.

Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, consult a physician.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). In all cases of doubt, or when symptoms persist, seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation causes narcotic effects/intoxication.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray. Carbon dioxide. Extinguishing powder. Dry extinguishing powder. alcohol resistant foam.

Unsuitable extinguishing media

High power water jet. High power water jet.

5.2. Special hazards arising from the substance or mixture

Combustible. Vapours may form explosive mixtures with air.
Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2).

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. In case of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. (See section 8.)
Remove all sources of ignition. Remove persons to safety. Ventilate affected area. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.
Avoid contact with skin, eyes and clothes. Do not breathe gas/vapour/aerosol.

6.2. Environmental precautions

Cover drains.
Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into surface water or drains. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.
Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations.
Wear personal protection equipment. (refer to chapter 8)

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges. Heating causes rise in pressure with risk of bursting. Flammable vapours can accumulate in head space of closed systems.

Further information on handling

Avoid contact with skin, eyes and clothes. Do not breathe gas/vapour/aerosol.
General protection and hygiene measures: refer to chapter 8

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Protect against direct sunlight.

Advice on storage compatibility

Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. Oxidizing solids. ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

Further information on storage conditions

Recommended storage temperature: 20°C
Protect against: Light. heat. Cold. moisture. UV-radiation/sunlight.

7.3. Specific end use(s)

refer to section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.
If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Protective and hygiene measures

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. Protect skin by using skin protective cream.

Eye/face protection

Suitable eye protection: Tightly sealed safety glasses. DIN EN 166

Hand protection

Wear suitable gloves. DIN EN 374
Suitable material:
Butyl rubber. - Thickness of glove material: 0,5 mm
(Breakthrough time > 4 h)
penetration time (maximum wearing period): >= ~160 min.
In the case of wanting to use the gloves again, clean them before taking off and air them well. Before using check leak tightness / impermeability.
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Protective clothing.
Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.
Respiratory protection necessary at:
exceeding exposure limit values
Suitable respiratory protective equipment: Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 133).

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless
Odour:	characteristic

		Test method
pH-Value:	not determined	
Changes in the physical state		
Melting point:	not determined	
Initial boiling point and boiling range:	56 °C	
Sublimation point:	not determined	
Softening point:	not determined	
Pour point:	not determined	
Flash point:	< -20 °C	
Sustaining combustion:	No data available	
Flammability		
Gas:	not determined	
Explosive properties		
In use, may form flammable/explosive vapour-air mixture.		
Lower explosion limits:	2,5 vol. %	
Upper explosion limits:	14,3 vol. %	
Ignition temperature:	370 °C	
Auto-ignition temperature		
Gas:	not determined	
Oxidizing properties		
none		
Vapour pressure: (at 20 °C)	246 hPa	
Vapour pressure: (at 50 °C)	814 hPa	
Density (at 20 °C):	0,79 g/cm³	
Water solubility:	not miscible - partially miscible	
Solubility in other solvents		
miscible.		
Partition coefficient:	not determined	
Viscosity / dynamic: (at 20 °C)	not determined	

Viscosity / kinematic:	No information available.
Flow time: (at 20 °C)	not determined
Vapour density:	No information available.
Solvent separation test:	not determined
Solvent content:	50-100%

9.2. Other information

Solid content:	not determined

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Heating causes rise in pressure with risk of bursting. Flammable vapours can accumulate in head space of closed systems. In use, may form flammable/explosive vapour-air mixture.

10.4. Conditions to avoid

Ignition hazard. Keep away from heat. Protect against direct sunlight.

10.5. Incompatible materials

Hydrogen peroxide, bromine trifluoride, Difluordioxid, 2-methyl-1,3-butadiene, nitromethane, nitrosyl chloride (catalyst), Nitrosylperchlorat, alkali hydroxide, bromine, fluorine, sodium, strong reducing agents, nitric acid, chromic acid, chromium trioxide, chromyl chloride, ethanolamine, Potassium tert-butoxide. Oxidizing agents, strong.

10.6. Hazardous decomposition products

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

No information available.

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
67-64-1	acetone; propan-2-one; propanone				
	oral	LD50	5800 mg/kg	Rat	ECHA Dossier
	dermal	LD50	7400 mg/kg	Rabbit	ECHA Dossier
	inhalative (4 h) vapour	LC50	50,1 mg/l	Rat	RTECS
99-97-8	N,N-dimethyl-p-toluidine				
	oral	ATE	100 mg/kg		
	dermal	LD50	>2000 mg/kg	Rat	ECHA Dossier
	inhalative (4 h) vapour	LC50	1,4 mg/l	Rat	GESTIS
	inhalative aerosol	ATE	0,5 mg/l		

Irritation and corrosivity

Causes serious eye irritation.
Irritant effect on the eye: Irritant.
Irritant effect on the skin: Not an irritant.

Sensitising effects

Based on available data, the classification criteria are not met.
no danger of sensitization.
The statement is derived from the properties of the single components.

STOT-single exposure

May cause drowsiness or dizziness. (acetone; propan-2-one; propanone)

Severe effects after repeated or prolonged exposure

Repeated exposure may cause skin dryness or cracking.
Acetone:
Subchronic oral toxicity (90d): NOAEL = 900 mg/m3 (Rat)

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.
Acetone:
No experimental indications of mutagenicity in-vitro exist. literature infomation: ECHA Dossier
Developmental toxicity/teratogenicity (Rat) NOAEL = 11000 ppm; literature infomation: ECHA Dossier

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No information available.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] | [d]	Species	Source
67-64-1	acetone; propan-2-one; propanone					
	Acute fish toxicity	LC50	5540 mg/l	96 h	Onchorhynchus mykiss	ECHA Dossier
	Acute crustacea toxicity	EC50	8800 mg/l	48 h	Daphnia pulex	ECHA Dossier
99-97-8	N,N-dimethyl-p-toluidine					
	Acute fish toxicity	LC50	46-53 mg/l	96 h	Pimephales promelas	GESTIS

12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
67-64-1	acetone; propan-2-one; propanone			
	OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C	90	28	ECHA Dossier
	Product is biodegradable.			

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-64-1	acetone; propan-2-one; propanone	-0,24
99-97-8	N,N-dimethyl-p-toluidine	2,81

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.
Control report for waste code/ waste marking according to EAKV:

Waste disposal number of waste from residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances
Classified as hazardous waste.

Waste disposal number of used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances
Classified as hazardous waste.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Acetone)

14.3. Transport hazard class(es): 3

14.4. Packing group:	II
Hazard label:	3

Classification code:	F1
Special Provisions:	274 601 640D
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	33
Tunnel restriction code:	D/E

Inland waterways transport (ADN)

14.1. UN number:	UN 1993
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Acetone)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3

Classification code:	F1
Special Provisions:	274 601 640D
Limited quantity:	1 L
Excepted quantity:	E2

Marine transport (IMDG)

14.1. UN number:	UN 1993
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Acetone)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3

Marine pollutant:	NO
Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-E, S-E

Air transport (ICAO)

14.1. UN number:	UN 1993
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Acetone)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3

Special Provisions:	A3
Limited quantity Passenger:	1 L
Passenger LQ:	Y341
Excepted quantity:	E2
IATA-packing instructions - Passenger:	353
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	364
IATA-max. quantity - Cargo:	60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

refer to chapter 6-8

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

2010/75/EU (VOC):	100 % (calculated.)
2004/42/EC (VOC):	790 g/l (calculated.)
Information according to 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS

Additional information:

Additional information

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].
REACH 1907/2006 Appendix XVII: 3

National regulatory information

Employment restrictions:	Observe employment restrictions for young people.
Water contaminating class (D):	2 - water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Rev. 1.00; 12.10.2015 Initial release

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
CAS Chemical Abstracts Service
DNEL: Derived No Effect Level
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect level
NTP: National Toxicology Program
N/A: not applicable
OSHA: Concerning the International Transport of Dangerous Goods by Rail)
PNEC: predicted no effect concentration
PBT: Persistent bioaccumulative toxic
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
SARA: Superfund Amendments and Reauthorization Act
SVHC: substance of very high concern
TRGS Technische Regeln für Gefahrstoffe
TSCA: Toxic Substances Control Act
VOC: Volatile Organic Compounds
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe
WGK: Wassergefährdungsklasse

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

FastCap™
5016 Pacific Highway
Ferndale, WA98248
Phone: 1-888-443-3748
Fax: 1-360-650-1075

Safety Data Sheet

2P-10™ Professional Wood Formula

according to Regulation (EC) No 1907/2006

2P-10 Debonder

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

2P-10 Debonder

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Industrial and professional use.

Uses advised against

any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name:	FastCap LLC
Place:	5016 Ferndale, WA 98248, USA
Telephone:	+1 360-752-2138
Internet:	www.fastcap.com
Responsible Department:	info@fastcap.com

1.4. Emergency telephone number:

Chemtrec (Domestic North America): +1 800-424-9300
Chemtrec (International): +1 703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:
Flammable liquid: Flam. Liq. 3
Acute toxicity: Acute Tox. 4
Hazard Statements:
Flammable liquid and vapour.
Harmful if swallowed.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazardous components which must be listed on the label

nitrocarbol

Signal word: Warning

Pictograms:

Hazard statements

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P501	Dispose of waste according to applicable legislation.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
75-52-5	nitrocarbol			80 -90 %
	200-876-6	609-036-00-7		
	Flam. Liq. 3, Acute Tox. 4; H226 H302			

Full text of H and EUH statements: see section 16.

Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Remove affected person from the danger area and lay down. Provide fresh air. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. Call a physician immediately.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Do not subject to friction.

After ingestion

Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. If swallowed, immediately drink: milk. Water. Caution if victim vomits: Risk of aspiration! Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Handling larger quantities.: Inhalation causes narcotic effects/intoxication.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray. Carbon dioxide. Extinguishing powder. alcohol resistant foam. Dry extinguishing powder.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Combustible. Vapours may form explosive mixtures with air. Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx).

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. (See section 8.) Remove all sources of ignition. Remove persons to safety.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains.

6.3. Methods and material for containment and cleaning up

Remove all sources of ignition. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Ventilate affected area.

6.4. Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Take precautionary measures against static discharges. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Use only antistatically equipped (spark-free) tools.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Heating causes rise in pressure with risk of bursting.

Further information on handling

Protect against: UV-radiation/sunlight. Flammable vapours can accumulate in head space of closed systems.
Handle with care - avoid bumps, friction and impact.
General protection and hygiene measures: refer to chapter 8

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep under nitrogen.

Advice on storage compatibility

Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. Oxidizing solids. ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

Further information on storage conditions

Handle with care - avoid bumps, friction and impact.

7.3. Specific end use(s)

refer to chapter 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
75-52-5	Nitromethane	100	254		TWA (8 h)	WEL
		150	381		STEL (15 min)	WEL

8.2. Exposure controls

Appropriate engineering controls

Use only in well-ventilated areas.

Protective and hygiene measures

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff.

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible).

Hand protection

In case of prolonged or frequently repeated skin contact:
Wear suitable gloves.
Suitable material:
FKM (fluororubber). - Thickness of glove material: 0,5 mm
Breakthrough time >= 480 min.
penetration time (maximum wearing period): >= ~160 min.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.
Respiratory protection necessary at:
insufficient ventilation.
exceeding exposure limit values
Generation/formation of aerosols
Suitable respiratory protective equipment:
gas filtering equipment (EN 141). Type : A
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!

Environmental exposure controls

The usual precautions for handling chemicals should be considered.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless
Odour:	characteristic

		Test method
pH-Value:	not determined	
Changes in the physical state		
Melting point:	-29 (nitrocarbol) °C	
Initial boiling point and boiling range:	101 (nitrocarbol) °C	
Flash point:	36 (nitrocarbol) °C	
Sustaining combustion:	No data available	
Explosive properties		
not determined		
Lower explosion limits:	7,1 (nitrocarbol) vol. %	
Upper explosion limits:	63 (nitrocarbol) vol. %	
Ignition temperature:	415 (nitrocarbol) °C	
Decomposition temperature:	not determined	
Oxidizing properties		
none		
Vapour pressure: (at 20 °C)	36 (nitrocarbol) hPa	
Vapour pressure: (at 50 °C)	155 (nitrocarbol) hPa	
Density:	not determined	
Viscosity / dynamic:	not determined	
Viscosity / kinematic:	not determined	
Flow time:	not determined	
Vapour density:	not determined	
Evaporation rate:	not determined	
Solvent separation test:	not determined	
Solvent content:	80-90%	

9.2. Other information

Solid content:	not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Risk of explosion by shock, friction, fire or other sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

10.5. Incompatible materials

Reacts with : Acid. Strong acid. amines. aldehydes. ketone. Base. Lead. Acetone. metal. copper. Reducing agent.

10.6. Hazardous decomposition products

In use, may form flammable/explosive vapour-air mixture. Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

No information available.

Acute toxicity

Harmful if swallowed.

ATEmix calculated

ATE (oral) 1044,4 mg/kg

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
75-52-5	nitrocarbol				
	oral	LD50	940 mg/kg	Rat	GESTIS
	dermal	LD50	>2000 mg/kg	Rabbit	ECHA Dossier
	inhalative (1 h) vapour	LC50 mg/l	[LCLo>12,75]	Rat	ECHA Dossier

Irritation and corrosivity

Based on available data, the classification criteria are not met.
Irritant effect on the eye: slightly irritant but not relevant for classification.
Irritant effect on the skin: Not an irritant.

Sensitising effects

Based on available data, the classification criteria are not met.
no danger of sensitization.

STOT-single exposure

Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.
nitrocarbol:
Chronic inhalative toxicity
Exposure time: 24 months.
Species: Rat
Results: NOAEC: >200ppm
literature infomation ECHA Dossier

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.
nitrocarbol:
In-vitro mutagenicity:
Method:
- OECD Guideline 471 (Bacterial Reverse Mutation Assay) (reliability scoring based on 1997 guideline)
- OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Result: negative.
literature infomation: ECHA dossier

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No information available.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] | [d]	Species	Source
75-52-5	nitrocarbol					
	Acute fish toxicity	LC50	>659 mg/l	96 h	Pimephales promelas	ECHA Dossier
	Acute algae toxicity	ErC50	>102 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA Dossier
	Acute crustacea toxicity	EC50	>103 mg/l	48 h	Daphnia magna	ECHA Dossier

12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
75-52-5	nitrocarbol			
	OECD 301D / EEC 92/69 annex V, C.4-E	9,9%	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
75-52-5	nitrocarbol	0,17

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.
Non-contaminated packages may be recycled.
According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.
Control report for waste code/ waste marking according to EAKV:

Waste disposal number of waste from residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances
Classified as hazardous waste.

Waste disposal number of used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances Classified as hazardous waste.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	UN 1261
14.2. UN proper shipping name:	NITROMETHANE
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3

Classification code:	F1
Limited quantity:	1 L
Excepted quantity:	E0
Transport category:	2
Tunnel restriction code:	E

Inland waterways transport (ADN)

14.1. UN number:	UN 1261
14.2. UN proper shipping name:	NITROMETHANE
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3

Classification code:	F1
Limited quantity:	1 L
Excepted quantity:	E0

Marine transport (IMDG)

14.1. UN number:	UN 1261
14.2. UN proper shipping name:	NITROMETHANE
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3

Marine pollutant:	NO
Special Provisions:	26

Limited quantity:	1 L
Excepted quantity:	E0
EmS:	F-E, S-D

Air transport (ICAO)

14.1. UN number:	UN 1261
14.2. UN proper shipping name:	NITROMETHANE
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3

Special Provisions:	A1 A39	
Limited quantity Passenger:	Forbidden	
Passenger LQ:	Forbidden	
Excepted quantity:	E0	
IATA-packing instructions - Passenger:		Forbidden
IATA-max. quantity - Passenger:		Forbidden
IATA-packing instructions - Cargo:		364
IATA-max. quantity - Cargo:		60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

refer to chapter 6-8

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

2010/75/EU (VOC):	< 90% (calculated.)
2004/42/EC (VOC):	not determined
Information according to 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS

Additional information:

Additional information

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].
REACH 1907/2006 Appendix XVII: 3

National regulatory information

Employment restrictions:	Observe employment restrictions for young people.
Water contaminating class (D):	2 - water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Rev. 1.0 Initial release 2.10.2015

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
CAS Chemical Abstracts Service
DNEL: Derived No Effect Level
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect level
NTP: National Toxicology Program
N/A: not applicable
OSHA: Concerning the International Transport of Dangerous Goods by Rail)
PNEC: predicted no effect concentration
PBT: Persistent bioaccumulative toxic
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
SARA: Superfund Amendments and Reauthorization Act
SVHC: substance of very high concern
TRGS Technische Regeln für Gefahrstoffe
TSCA: Toxic Substances Control Act
VOC: Volatile Organic Compounds
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe
WGK: Wassergefährdungsklasse

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

5016 Pacific Highway
Ferndale, WA98248
Phone: 1-888-443-3748
Fax: 1-360-650-1075

Safety Data Sheet

Revision Date 06/05/15

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY UNDERTAKING

1.1. Product identifier

Product name(s)	2P-10 JEL 10 OZ / 2P-10 JEL 2 OZ / 2P-10 RT JEL 10 OZ / 2P-10 RT JEL 2.25 / 2P-10 3G TUBE JEL / 2P-10 JEL TUBE / 2P-10 KIT / 2P-10 COLOR KIT /
Product Grade	2P-10 JEL
CAS number EC	7085-85-0
number Index	230-391-5
number	607-236-00-9

1.2. Relevant identified uses of the substance and uses advised against

Applications	Industrial adhesives application Consumer use of adhesives

1.3. Details of the supplier of the safety data sheet

Name	FastCap LLC
Address	5016 Pacific Highway Ferndale, WA 98248 USA
Telephone	1-360-752-2138
Fax	1-360-650-1075
Contact email	info@fastcap.com

1.4. Emergency telephone number

Chemtrec	(Domestic North America) 1-800-424-9300
Chemtrec	(International) +1 703-527-3887

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance

2.1.1. Classification of the product according to DSD (67/548/EC)

Xi IRRITANT	R 36/37/38 Irritating to eyes, respiratory system and skin

2.1.2. Classification of the product according to CLP (1272/2008/EC)

Eye irrit. 2	H319 Causes serious eye irritation
STOT SE 3	H335 May cause respiratory irritation
Skin irrit. 2	H315 Causes skin irritation

2.2. Label elements according to CLP (1272/2008/EC)

Hazard pictograms

Signal word	Warning
Hazard statements	H319 Causes serious eye irritation H335 May cause respiratory irritation H315 Causes skin irritation EUH202 – "Cyanoacrylate. Danger. Bonds skin and eyes in second. Keep out of the reach of children"
Precautionary statements - Prevention	P280 Wear protective gloves/protective clothing/eye protection/ face protection
Precautionary statements - Response	P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P332+313 If skin irritation occurs: Get medical advice/attention P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Precautionary statements - Storage	P403+233 Store in a well-ventilated place. Keep container tightly closed
Precautionary statements - Disposal	P501 Dispose of contents/container as hazardous or special waste

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name of substance	**CAS No.**	**EC No.**	**Index No.**	**Concentration**	**Classification (DSD/CLP)**	**Specific concentration limits**
Ethyl-2-cyanoacrylate	7085-85-0	230-391-5	607-236-00-9	80 – 99 %	Xi; R36/37/38	C ≥ 10% : Xi; R36/37/38
					Eye irrit. 2 ; H319 STOT SE 3 ; H335 Skin irrit. 2; H315	

4. FIRST AID MEASURES

4.1. Description of first aid measures

General	Call a POISON CENTER or doctor/physician if you feel unwell

Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If still feeling unwell seek medical attention.
Skin	IF ON SKIN: Wash with plenty of soap and water. Do not pull bonded skin apart. It may be gently peeled apart using a blunt object such as a spoon, preferably after soaking in warm soapy water. Cyanoacrylates give off heat on solidification. In rare cases a large drop will generate enough heat to cause a burn. Burns should be treated normally after the adhesive has been removed from the skin. If lips are accidentally stuck together apply warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips apart with direct opposing action. If skin irritation occurs: Get medical advice/attention.
Eyes	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If the eye is bonded closed, release eyelashes with warm water by covering with wet pad. Cyanoacrylate will bond to eye protein and will cause periods of weeping which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Medical advice should be sought in case solid particles of cyanoacrylate trapped behind the eyelid cause an abrasive damage.
Ingestion	Ensure that breathing passages are not obstructed. The product will polymerise immediately in the mouth making it almost impossible to swallow. Saliva will slowly separate the solidified product from the mouth (several hours).

4.2. Most important symptoms and effects, both acute and delayed

Gross contamination with the adhesive may generate enough heat to cause a burn.

4.3. Indication of any immediate medical attention and special treatment needed

Not determined

5. FIREFIGHTING MEASURES

5.1. Extinguishing media	Suitable extinguishing agents: Dry powder, foam, carbon dioxide, fine water spray Unsuitable extinguishing agents: Water jet
5.2. Special hazards arising from the substance or mixture	Trace amounts of toxic fumes may be released on incineration. Hazardous combustion products: oxides of carbon, oxides of nitrogen, irritating organic vapours.
5.3. Advice for fire-fighters	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid skin and eye contact. Avoid breathing dust/fume/gas/mist/vapours/spray.
6.2. Environmental precautions	Do not let product enter drains.
6.3. Methods and material for containment and cleaning up	Do not use clothes for mopping up. Flood with water to complete polymerisation and scrape off the floor. Cured material can be disposed of as non-hazardous waste.
6.4. Reference to other sections	Safe handling: see section 7 Disposal: see section 13 Personal protective equipment: see section 8

7. HANDLING AND STORAGE

7.1. Precautions for safe handling	Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Ventilation (low level) is recommended when using large volumes. Use of dispensing equipment is recommended to minimise the risk of skin or eye contact. Wash hands thoroughly after handling.
7.2. Conditions for safe storage, including any incompatibilities	For optimum shelf life store in original containers under refrigerated conditions at 2°C to 8°C. Store locked up.
7.3. Specific end use(s)	Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limit values

Country	Type	Value
UK	STEL	0.3 ppm; 1.5 mg.m^{-3} (15 min)
Ireland	OEL / TWA	0.2 ppm
Germany	MAK	No MAK value established
France	VME/VLE	No VME/VLE established

Derived DNEL(s) / DMEL(s)

Type	Details	Value	Basis

Worker – inhalation route	Systemic effect – Long term exposure	9.25 mg/m³	irritation (respiratory tract)
Worker – inhalation route	Local effect – Long term exposure	9.25 mg/m³	irritation (respiratory tract)
General population – inhalation route	Systemic effect – Long term exposure	9.25 mg/m³	irritation (respiratory tract)
General population – inhalation route	Local effect – Long term exposure	9.25 mg/m³	irritation (respiratory tract)

Derived PNEC(s)

Tests in aqueous media with ethyl-2-cyanoacrylate with the intent to determine effective concentrations or no effect concentrations cannot be performed due to technical reasons based on the chemical properties of the monomer.

8.2. Exposure controls

Appropriate engineering controls: Provide adequate ventilation in area of use. Do NOT use this product in an enclosed or poorly ventilated area. Local exhaust ventilation is normally required when handling or using this product to keep airborne powder below the nationally authorized limits. If ventilation alone cannot control exposure, respiratory protection must be used.

Personal protection:

Respiratory protection: Ensure adequate ventilation.

Hand protection: In circumstances where there is a potential for prolonged or repeated skin contact, the use of polyvinyl chloride or nitrile rubber gauntlets or equivalent solvent resistant gloves is recommended.
The use of chemical resistant gloves such as Nitrile is recommended. Polyethylene or polypropylene gloves are recommended when using large volumes. Do not use PVC, rubber, nylon or cotton gloves.

Eye protection: Wear protective glasses.

Body protection: Not applicable

Hygiene measures: Good industrial hygiene practices should be observed. Take off contaminated clothing and wash it before reuse. Wash hands thoroughly after handling.

Environmental exposure controls: Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information of basic physical and chemical properties

- Physical state: Liquid
- Colour: Transparent, colourless

- Odour	pungent
- Odour threshold	Not determined
- pH	Not determined
- Melting point	-31°C
- Boiling point	214 °C (at 1003 mbar)
- Flash point	82.5 °C (at 1003 mbar)
- Evaporation rate	Not determined
- Flammability	Not flammable
- Auto flammability	480°C
- Upper/lower flammability or explosive limits	Not applicable
- Explosive properties	No explosive properties
- Oxidising properties	No oxidising properties
- Vapour pressure	≤ 21 Pa
- % volatile by volume	Not determined
- Vapour density	Not determined
- Specific gravity	1.043 g/cm^3 at 20°C
- Solubility in water	≤ 0,024 mg/l
- Other Solvents	Recovery in acetone: 91.8% Recovery in acetonitrile: 96.5%
- Partition coefficient (n-octanol/water)	Log P_{OW} 0,776 (calculated)
- Decomposition temperature	Not determined

9.2. Other information

None

10. Stability and reactivity

10.1. Reactivity	Not determined
10.2. Chemical stability	Stable under normal conditions of storage and use
10.3. Possibility of hazardous reactions	Polymerisation will occur in the presence of moisture and other basic materials
10.4. Conditions to	Moisture, humidity, basic material

avoid

10.5. Incompatible materials	Water, soil, amines, alkalis and alcohols
10.6. Hazardous decomposition materials	Oxides of carbon, oxides of nitrogen

11. Toxicological information

11.1. Information on toxicological effects

- Acute toxicity	Oral: LD_{50} (oral, rat) > 5000 mg/kg bw (OECD 401) Dermal: LD_{50} (dermal, rabbit) > 2000 mg/kg bw (OECD 402) Inhalation: In dry atmosphere with < 50% humidity, vapours may irritate the eyes and respiratory system. Prolonged exposure to high concentrations of vapours may lead to chronic effects in sensitive individuals.
- Skin corrosion/irritation	Causes skin irritation
- Serious eye damage/irritation	Irritating to eyes. In a dry atmosphere (RH<50%) vapours may cause irritation and lachrymatory effect.
- Respiratory or skin sensitisation	Due to polymerisation at the skin surface allergic reaction is not considered possible. The polymerized material is not able to penetrate into the epidermis.
- Germ cell mutagenicity	Because of the reduced exposure to monomer and the reported negative test result in various mutagenicity tests, ethyl-2-cyanoacrylate cannot be classified as mutagen.
- Carcinogenicity	Not carcinogenic
- Reproductive toxicity	Not toxic by reproduction
- STOT-single exposure	May cause irritation for skin, eyes and respiratory system
- STOT-repeated exposure	Ethyl-2-cyanoacrylate is not toxic by repeated absorption
- Aspiration hazard	Not determined

11.2. Other information

None

12. Ecological information

12.1. Toxicity	Low ecotoxicity
12.2. Persistence and degradability	Not applicable (the test compound would polymerize with contact of water or the moisture of the soil immediately)
12.3. Bioaccumulative potential	Not applicable (in presence of moisture ethyl-2-cyanoacrylate polymerises within seconds)
12.4. Mobility in soil	Not applicable (the test compound would polymerize with contact of water or the moisture of the soil immediately)
12.5. Results of PBT and vPvB assessment	The PBT and vPvB criteria do not apply to ethyl-2-cyanaoacrylate
12.6. Other adverse effects	Not determined

13. Disposal considerations

13.1. Waste treatment methods

Product disposal:
Cured adhesive: Dispose of as water insoluble non-toxic solid chemical in authorised landfill or incinerate under controlled conditions.
Dispose of in accordance with local and national regulations. Polymerise by adding slowly to water (10:1).
Contribution of this product to waste is very insignificant in comparison to article in which it is used.

Disposal of uncleaned packages:
After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated. Disposal must be made according to official regulations.

13.2. Waste code numbers / Waste identification

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances.

14. Transport information

	Overland transport (ADR/RID)	**River transport (ADN)**	**Sea transport (IMDG)**	**Air transport (ICAO-TI / IATA-DGR)**
14.1. UN Number	Not regulated			Not Regulated
14.2. UN proper shipping name	Not regulated			liquid, (Cyanoacrylate ester)

14.3. Transport hazard classes	Not regulated		9
14.4. Packing group	Not regulated		Packaging instructions (passenger): 906 Packaging instructions (cargo): 906
14.5. Environmental hazards	-	no	-
14.6. Classification	Not regulated		(Cyanoacrylate ester), 9
14.9. Limited amount (LQ)	Not regulated		-
14.10. Additional information	Not determined		Unrestricted.

14.11. Special precautions for user

Not determined

14.12. Transport in bulk

Not determined

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Not determined

15.2. Chemical safety assessment A chemical safety assessment has been performed.

16. Other information

16.1. Indication on the revision

SDS revised on the 02th February 2015: inclusion of CLP and DSD classification according to CLP regulation (1272/2008/EC) and addition of all fields as required by regulations 1907/2006/EC and 453/2010/EC.

16.2. Abbreviations and acronyms

ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on inland waterways.

ADR/RID: European Agreement, concerning the International Carriage of Dangerous Goods by Road/ Regulations concerning the international carriage of dangerous goods by rail.

ACGIH: American Conference of Governmental Industrial Hygienists

CAS Number: Chemical Abstract Service Number

CLP: Classification, Labelling and Packaging

DNEL: Derived No Effect Level

DPD: Dangerous Preparation Directive

DSD: Dangerous Substance Directive

EC Number: European Commission Number

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

IATA: International Air Transport Associations

IMDG: International Maritime Dangerous Goods code

NIOSH: National Institute of Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

PNEC: Predicted No Effect Concentration

PBT: Persistent, Bio accumulative, Toxic

UN Number: United Nations Number

UVCB: Substances of Unknown or Variable composition, Complex reaction products or Biological materials

TWA: Time-Weighted Average

VOC: Volatile organic compounds

VPvB: very Persistent and very Bio accumulative

WEL: Workplace Exposure Limit (UK HSE EH40)

16.3. Key literature references and sources for data

The present data in this SDS are based on the data present in the registration dossier of Ethyl Cyanoacrylate.

16.4. Classification of mixtures and applied evaluation method

Not applicable

16.5. Wording of the R- and H- phrases (which are not written in full under section 2 to 15)

Risk phrases: -

H statements: -

S phrases:
S23 Do not breath vapour

S24/25 Avoid contact with skin and eyes

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16.6. Training advice

Unavailable

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

GranQuartz

SAFETY DATA SHEET
Material Identity: ACETONE

SECTION 1 · COMPANY AND PRODUCT IDENTIFICATION

Distributors Address
4963 S. Royal Atlanta Dr
Tucker GA 30084

Emergency Phone CHEMTREC: (800) 424-9300
General Information: (404) 355-8220
Synonyms: Hydrocarbon Mixture, 2-Propanone, Beta-ketopropane, Dimethyl ketone, Ketone propane, Dimethyl formaldehyde, Dimethylketal
Product Description: Solvent

SECTION 2· HAZARDS IDENTIFICATION

GHS Classification:

[Health]
Eye irritation (Category 2A
Specific target organ toxicity - single exposure (Category 3), Central nervous system

[Environmental]

[Physical]
Flammable liquids Category 2

GHS Label elements, including precautionary statements

Pictograms

Signal Word: Danger

Hazard statement(s)
H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P235 Keep cool.
P405 Store locked up.
P501 Dispose of contents/in accordance with local/regional/national/international regulations.

SECTION 3 · COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
Acetone	67-64-1	100

SECTION 4 · FIRST AID MEASURES

FIRST AID PROCEDURES:
Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact: Remove contaminated clothing. Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing. Get medical attention if symptoms appear.

SECTION 5 · FIRE FIGHTING MEASURES

Suitable Extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Hazardous combustion products: Oxides of carbon and various hydrocarbons
Fire Fighting Procedures: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
Unusual Fire and Explosion Hazards: Containers can build up pressure if exposed to heat and/or fire. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back.

SECTION 6 · ACCIDENTAL RELEASE and DISPOSAL MEASURES

Spills: Evacuate all non-essential personnel from the spill area. Eliminate all ignition sources. Suitable protective clothing should be worn. Shut off or plug source of spill. Small spills: absorb on inert media and collect into suitable container.
Large Spills: Dike spill area to contain liquid. Salvage as much re-useable liquid as possible into a suitable container. Avoid contaminating ground and surface water.

SECTION 7 · STORAGE AND HANDLING

Handling: Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Keep container closed and tightly sealed when not in use. Use good hygiene practices.
Storage: This material is a static accumulator. Use non-sparking tools. Store in a cool, dry, ventilated area, away from incompatible substances. Store only in approved properly labeled containers. Containers should be grounded and bonded.

SECTION 8 · EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls: Provide explosion-proof ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below.

Exposure Limits:	Acetone	500 ppm ACGIH; 1000 ppm OSHA

Personal Protective Equipment (PPE):
Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.
Skin: If prolonged or repeated skin contact is likely, wear appropriate protective gloves.
Clothing: Selection of protective clothing depends on work conditions, potential exposure conditions and may include gloves, boots, suits and other protective items.
Respirators: Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.
Other Equipment: Eye wash station and shower in close proximity to use are advised.

SECTION 9· PHYSICAL AND CHEMICAL PROPERTIES

Flash Point: 1.4 ^{O}F
Autoignition Temperature: 869 ^{O}F
Boiling Point: 133 ^{O}F
Melting Point: -137 ^{O}F
Vapor Pressure: 184 mmHg
Vapor Density (Air-1): No available Data
Odor/Appearance: Clear colorless liquid with pungent odor

Flammability Limits: Lower: 2.6 Upper: 12.8
Specific Gravity: 0.79
Volatile %: 100
Evaporation Rate (Water): No available data
pH: Not Applicable
Solubility in Water: Soluble

SECTION 10 · STABILITY AND REACTIVITY

Chemical Stability: Stable under normal use and temperature conditions.
Conditions to Avoid: Keep away from heat, flame and other potential ignition sources.
Materials to Avoid: Strong acids, and oxidizers.
Decomposition Products: When combusted, oxides of carbon and various hydrocarbons.

SECTION 11 · TOXILOGICAL INFORMATION

Signs and Symptoms of Overexposure:
Skin: Contact can cause redness and irritation. Severity depends on the amount and duration of exposure.
Eyes: Vapors are irritating to the eyes. Liquid contact will cause stinging and tearing.
Inhalation: Excessive inhalation of high concentrations may be harmful. Mist or vapor can irritate the throat and lungs. Breathing this material may cause central nervous system depression.
Ingestion: If swallowed this material may irritate the mucous membranes of the mouth throat and esophagus. Aspiration of this material into the lungs may result in damage or death.

Acute oral toxicity:
Acetone: LD50 rat: 5,800 mg/kg
Acute inhalation toxicity:
Acetone: LC50 rat: > 20 mg/l, 4 h
Acute dermal toxicity:
Acetone: LD50 rabbit: 20,000 mg/kg

SECTION 12 · ECOLOGICAL INFORMATION

Aquatic Toxicity: This product is unlikely to pose a significant hazard to aquatic life.
Bio-accumulative potential: Bioaccumulation of this product is not expected to be significant. This product is readily biodegradable.
Mobility: Accidental spillage may lead to penetration in the soil and contamination of groundwater.

SECTION 13 · DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SECTION 14 · TRANSPORTATION

U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):

Proper Shipping Name:	Acetone
Hazard Class:	3
UN Number:	1090
Packaging Group:	II

SECTION 15 · REGULATORY INFORMATION

US FEDERAL REGULATIONS

Comprehensive Environmental Response and Liability Act (CERCLA)

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. The reportable quantity (RQ) for this material is 5000 pounds. If appropriate, immediately report to the National Response Center (800/424-8802) as required by U.S.Federal Law. Also contact appropriate state and local regulatory agencies.

Toxic Substance Control Act (TSCA): All components of this product are listed on the TSCA inventory list.

SARA Section 311/312 (40 CFR 370) Hazard Categories:
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA Section 313 (40 CFR 372) Hazard Categories: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA

Clean Air Act: None of the chemicals in this product are listed as Hazardous Substances under the CAA.

California Prop 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16 · OTHER INFORMATION

SDS Revision Date: April 2015

NFPA Ratings: **HEALTH: 2** **FLAMMABILITY: 3** **REACTIVITY: 0**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Whitaker be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Whitaker has been advised of the possibility of such damages. The vendor assumes no responsibility for injury or damages resulting from the inappropriate alteration or manipulation of this SDS and its contents from that originally submitted by Whitaker.

Section 1. Identification

Product Code:	0014
Product Name:	Color Enhancer
Product Use:	Enhance, Seal & Restore Stone
Restrictions:	None
Company:	Beno J. Gundlach Co.
Address:	211 N 21st Street, Belleville, IL 62226
Telephone:	618 233-1781
24 Hour Emergency Number:	800 535-5053

Section 2. Hazards Identification

GHS Classifcation:

Physical Hazards	Not Classified
Health Hazards	
Eye Irritation	Category 2A
Skin Irritation	Category 3
Acute toxicity – Oral	Category 5
Specific target organ toxicity, single exposure; Respiratory tract irritation	Category 3
Environmental Hazards	Not Classified

GHS Label:

Symbol:

Signal Word: **Warning**

Hazard Classification:

Hazard Statement:

Causes serious eye irritation
Causes mild skin irritation
May be harmful if swallowed
May cause respiratory irritation

Precautionary Statement:

Prevention

Wash hands and exposed skin thoroughly after handling.

Wear eye protection/face protection.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

If skin irritation occurs: Get medical advice/attention.

Call a POISON CENTER/doctor/physician if you feel unwell.

IF INHALED: Remove victim to fresh air and keep at rest in apposition comfortable for breathing.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

Dispose of contents/container in accordance with local/national/international regulations.

Section 3. Composition/Information on Ingredients

Ingredients	CAS No.	Percent

Section 4. First Aid Measures

Skin Contact: Immediately wash skin with soap and water. Wash contaminated clothing before reuse. Call a physician if irritation develops.

Eye Contact: First rinse eyes with water. Remove any contact lenses, and continue washing with running water for at least 15 minutes. Call for medical help.

Inhalation: Immediately remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician if symptoms persist.

Ingestion: Do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

Section 5. Firefighting Measures

Fire and Explosion Hazard: Not any unusual fire or explosion hazards.

Fire Extinguishing Media: Foam, Dry Chemical, CO2

Unsuitable Extinguishing Media: No Information Available

Specific Hazards in Case of Fire: Combustion can produce oxides of carbon, nitrogen, silicone and slight race of formaldehyde or hydrogen fluoride.

Special Fire Fighting Information: Fire fighters should wear full protective clothing including a self-contained breathing apparatus. Evacuate personnel to a safe area. Cool endangered containers with water if it can be done safely.

Section 6. Accidental Release Measures

Personal Precautions:	Wear appropriate personal protective equipment (See Section 8). Wash contaminated skin thoroughly. Evacuate personnel to safe areas. Avoid inhaling mists and vapors. Ensure adequate ventilation. Contaminated area will be slippery.
Environmental Precautions:	Avoid release to the environment.
Methods and Materials for Containment and Cleaning up:	Turn off ignition sources. Soak up with sand, oil dry or other absorbent material. Dispose in accordance with local/state/federal regulations.

Section 7. Handling and Storage

Handling Conditions:	Agitate contents of container before using. Ensure adequate ventilation. Respiratory protection is only recommended where ventilation or engineering controls are unable to maintain exposures below recommended levels.
Storage Conditions:	Store in a well-ventilated place at temperatures below 120 F. Keep container tightly closed. Protect from direct sunlight.

Section 8. Exposure Control/Personal Protection

Exposure Limits:	No information available
Appropriate engineering controls:	Provide sufficient mechanical ventilation in order to capture mists and sprays in areas where the product may be heated or sprayed.
Personal protective equipment:	
Respiratory Protection:	If spraying or other operations which generate an aerosol mist occur, respiratory protection for exposed personnel is recommended. A NIOSH approved air purifying full-face respirator should be worn if any dusts, mists or vapors could occur.
Hand Protection:	Impervious gloves should be worn.
Eye Protection:	Safety glasses with side shields.
Skin and Body Protection:	Appropriate clothing to prevent skin contact.
Other Protective Equipment:	No information available.
Hygiene Measures:	Wash hands and other exposed skin after use.

Section 9. Physical and Chemical Properties

Physical State:	Liquid
Color:	White/opaque fluid
Odor:	Slight
VOC's:	< 90 g/L
% Non-volatile by Weight:	25.0 – 28.0
pH:	5.0 – 6.5
Specific Gravity (77°F):	1.00
% Volatile by Weight:	72.0 – 75.0
Freezing Point:	No information available
Boiling point:	~100°C (212°F)
Flash Point:	No information available
Evaporation Rate (BuAc=1):	No information available

Flammability:	No information available
Explosion Limits:	No information available
Vapor Pressure (mmHg):	Negligible
Vapor Density (Air=1):	No information available
Solubility:	Miscible
Partition Coefficient:	No information available
Auto-ignition Temperature:	N/A
Viscosity:	No information available
Decomposition Temperature:	No information available

Section 10. Stability and Reactivity

Chemical Stability:	Stable
Hazardous Polymerization:	Cannot occur
Conditions to Avoid:	None known
Incompatible Materials:	Avoid contact with strong oxidizing agents and acids.
Hazardous Decomposition Products:	Combustion can produce oxides of carbon, nitrogen, silicone and slight race of formaldehyde or hydrogen fluoride.

Section 11. Toxicological Information

Primary Routes of Entry:

Eye:	Yes	Skin:	Yes	Inhalation:	Yes	Ingestion:	Yes

Potential Health Effects:

Inhalation	Mist irritating to the respiratory tract irritation. Do not breathe aerosols.
Ingestion:	Although ingestion is unlikely, liquid may irritate upper digestive tract if swallowed. May be harmful if swallowed.
Skin:	Causes mild skin irritation. Prolonged and repeated contact with skin can cause defatting and drying of the skin resulting in skin irritation and dermatitis.
Eyes:	Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product. May cause severe irritation.
Signs and Symptoms of Exposures:	No information available
Acute Toxicity:	No information available
Chronic Toxicity:	No information available
Respiratory or Skin Sensitization:	No information available
Mutagenicity:	No information available

Carcinogenicity:

IARC:	No	NTP:	No	OSHA:	No

Section 12. Ecological Information

Ecotoxicity (Aquatic and Terrestrial):	No information available
Bioaccumulative Potential	No information available
Mobility in Soil:	No information available
PBT and vPvB Assessment:	No information available
Other Adverse Effects:	No information available

Section 13. Disposal Considerations

Product:	Dispose in accordance with EPA, state and local regulations.
Disposing of Contaminated Packaging:	Dispose of as unused product.

Section 14. Transport Information

Land Transport (DOT):	Not Regulated
Sea Transport (IMDG):	Not Regulated
Air Transport (IATA):	Not Regulated
Environmental Hazards (e.g., Marine pollutant):	No Information Available

Section 15. Regulatory Information

International Inventories:

TSCA (USA):	Listed
DSL (Canada):	No Information Available
ENCS (Japan)	No Information Available
REACH (Europe):	No Information Available
IECSC (China):	No Information Available
KECL (Korea):	No Information Available
PICCS (Philippines):	No Information Available
AICS (Australia):	No Information Available
ERMA (New Zealand):	No Information Available

Federal Regulations:

SARA 313:	No Information Available
SARA 311/312:	No Information Available
Clean Water Act:	No Information Available
Clean Air Act, Section 112 HAPs (See 40CFR61):	No Information Available

State Regulations:

Massachusetts Right to Know Components:	No Information Available
New Jersey Right to Know Components:	No Information Available
Pennsylvania Right to Know Components:	No Information Available
California Proposition 65:	None

Section 16. Other Information

WHMIS Classification:	No information available
HMIS Rating:	
Health Hazard	1
Flammability:	0
Physical Hazard:	0
Personal Protection Equipment:	X
NFPA Rating	
Health Hazard:	1
Fire Hazard:	0
Reactivity Hazard:	0

Date Prepared ..... April 26, 2016

THE INFORMATION AND RECOMMENDATIONS HEREIN, ARE TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. NO WARRANTY, EXPRESS OR IMPLIED, IS MADE OR INTENDED.

Safety Data Sheet

RUST-OLEUM CORPORATION
* Trusted Quality Since 1921 *
www.rustoleum.com

1. Identification

Product Name: SPCUSE 1-GL THINNER THINNER

Revision Date: 8/14/2014

Product Identifier: 140402

Supercedes Date: 8/14/2014

Product Use/Class: Paint Thinner/Thinners

Supplier:
Rust-Oleum Corporation
11 Hawthorn Parkway
Vernon Hills, IL 60061
USA

Manufacturer:
Rust-Oleum Corporation
11 Hawthorn Parkway
Vernon Hills, IL 60061
USA

Preparer: Regulatory Department

Emergency Telephone: 24 Hour Hotline: 847-367-7700

2. Hazard Identification

EMERGENCY OVERVIEW: Harmful if inhaled. Harmful if swallowed. Causes eye irritation. Flammable liquid and vapor. Causes nose and throat irritation. Use ventilation necessary to keep exposures below recommended exposure limits, if any. Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Vapor Harmful. Causes Eye, Skin, Nose, and Throat Irritation. May cause eye, skin, or respiratory tract irritation. KEEP OUT OF REACH OF CHILDREN.

Classification

Symbol(s) of Product

Signal Word
Danger

GHS HAZARD STATEMENTS

Flammable Liquid, category 2	H225	Highly flammable liquid and vapour.
Organic Peroxide, categories C, D	H242	Heating may cause a fire.
Acute Toxicity, Oral, category 5	H303	May be harmful if swallowed.
Aspiration Hazard, category 2	H305	May be harmful if swallowed and enters airways.
Acute Toxicity, Dermal, category 5	H313	May be harmful in contact with skin.
Skin Irritation, category 2	H315	Causes skin irritation.
Eye Irritation, category 2	H319	Causes serious eye irritation.
Eye Irritation, category 2B	H320	Causes eye irritation.
Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
STOT, single exposure, category 3, NE	H336	May cause drowsiness or dizziness.

GHS PRECAUTIONARY STATEMENTS

P102	Keep out of reach of children.
P103	Read label before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P220	Keep/Store away from clothing/…/combustible materials.
P234	Keep only in original container.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/…/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash … thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P285	In case of inadequate ventilation wear respiratory protection.
P302+P350	IF ON SKIN: Gently wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P321	Specific treatment (see … on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P351	Rinse cautiously with water for several minutes.
P352	Wash with plenty of soap and water.
P362	Take off contaminated clothing and wash before reuse.
P370+P378	In case of fire: Use … for extinction.
P374	Fight fire with normal precautions from a reasonable distance.
P402	Store in a dry place.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P410	Protect from sunlight.
P411+P235	Store at temperatures not exceeding …°C/…°F. Keep cool.
P420	Store away from other materials.
P501	Dispose of contents/container to …

3. Composition/Information On Ingredients

HAZARDOUS SUBSTANCES

Chemical Name	CAS-No.	Wt.% Range	GHS Symbols	GHS Statements
Aromatic Petroleum Distillates	64742-94-5	50-75	GHS06	H227-310
Xylene	1330-20-7	25-50	GHS02	H226
Ethylbenzene	100-41-4	2.5-10	GHS02-GHS07	H225-332
Naphthalene	91-20-3	1.0-2.5	GHS02-GHS07	H228-312

The text for GHS Hazard Statements shown above (if any) is given in the "16. Other Information" section.

4. First-aid Measures

FIRST AID - EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

FIRST AID - SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

FIRST AID - INGESTION: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

5. Fire-fighting Measures

EXTINGUISHING MEDIA: Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may explode when exposed to extreme heat due to buildup of steam. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. No unusual fire or explosion hazards noted.

SPECIAL FIREFIGHTING PROCEDURES: Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

6. Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Eliminate all ignition sources; use explosion-proof equipment. Place material in a container and dispose of according to local, provincial, state and federal regulations. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

7. Handling and Storage

HANDLING: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

STORAGE: Store in a dry, well ventilated place. Keep container tightly closed when not in use. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class II combustible liquids. Keep away from heat, sparks, flame and sources of ignition. Keep container closed when not in use. Avoid excess heat. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials.

8. Exposure Controls/Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Aromatic Petroleum Distillates	64742-94-5	60.0	N.E.	N.E.	N.E.	N.E.
Xylene	1330-20-7	35.0	100 ppm	150 ppm	100 ppm	N.E.
Ethylbenzene	100-41-4	10.0	20 ppm	125 ppm	100 ppm	N.E.
Naphthalene	91-20-3	5.0	10 ppm	15 ppm	10 ppm	N.E.

PERSONAL PROTECTION

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or in any other circumstances where air purifying respirators may not provide adequate protection.

SKIN PROTECTION: Use gloves to prevent prolonged skin contact. Use impervious gloves to prevent skin contact and absorption of this material through the skin. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

OTHER PROTECTIVE EQUIPMENT: Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications. Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

HYGIENIC PRACTICES: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

9. Physical and Chemical Properties

Appearance:	Liquid	**Physical State:**	Liquid
Odor:	Solvent Like	**Odor Threshold:**	N.E.
Relative Density:	0.886	**pH:**	N.A.
Freeze Point, °C:	N.D.	**Viscosity:**	N.D.
Solubility in Water:	Slight	**Partition Coefficient, n-octanol/ water:**	No Information
Decompostion Temp., °C:	No Information		
Boiling Range, °C:	279 - 380	**Explosive Limits, vol%:**	1.0 - 6.6
Flammability:	Supports Combustion	**Flash Point, °C:**	27
Evaporation Rate:	Slower than Ether	**Auto-ignition Temp., °C:**	No Information
Vapor Density:	Heavier than Air	**Vapor Pressure:**	N.D.

(See "Other information" Section for abbreviation legend)

10. Stability and Reactivity

CONDITIONS TO AVOID: Avoid temperatures above 120 ° F. Avoid contact with strong acid and strong bases. Avoid all possible sources of ignition.

INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

HAZARDOUS DECOMPOSITION: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

11. Toxicological information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes Serious Eye Irritation

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Prolonged or repeated skin contact may cause irritation. Causes skin irritation. Allergic reactions are possible.

EFFECTS OF OVEREXPOSURE - INHALATION: Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. May cause headaches and dizziness. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed. Aspiration hazard if swallowed; can enter lungs and cause damage.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B).

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

ACUTE TOXICITY VALUES

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
64742-94-5	Aromatic Petroleum Distillates	>5000 mg/kg Rat	>2 mL/kg Rabbit	N.I.
1330-20-7	Xylene	4300 mg/kg Rat	N.I.	47635 mg/L Rat
100-41-4	Ethylbenzene	3500 mg/kg Rat	15354 mg/kg Rabbit	17.2 mg/L Rat
91-20-3	Naphthalene	N.I.	1120 mg/kg Rabbit	N.I.

N.I. - No Information

12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components. Product is a mixture of listed components.

13. Disposal Information

DISPOSAL INFORMATION: Dispose of material in accordance to local, state, and federal regulations and ordinances. Do not allow to enter waterways, wastewater, soil, storm drains or sewer systems.

14. Transport Information

	Domestic (USDOT)	International (IMDG)	Air (IATA)	TDG (Canada)
UN Number:	N.A.	1263	1263	N.A.
Proper Shipping Name:	Paint Products in Limited Quantities	Paint	Paint	Paint Products in Limited Quantities
Hazard Class:	N.A.	3	3	N.A.
Packing Group:	N.A.	III	III	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

15. Regulatory Information

U.S. Federal Regulations:

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS-No.
Xylene	1330-20-7
Ethylbenzene	100-41-4
Naphthalene	91-20-3

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA components exist in this product.

Inventory Information

Country	Value
USA (TSCA)	No Information
Canada (DSL)	No Information
Mexico(INSQ)	No Information
Europe (EINECS)	No Information
Japan (ENCS)	No Information
Philippines (PICCS)	No Information
China (IECSC)	No Information
Australia (AICS)	No Information
Korea (KECI)	No Information
New Zealand (NZIOC)	No Information

No Information

CALIFORNIA PROPOSITION 65:

Warning: This products contains a substance known to the State of California to cause cancer.

Chemical Name	CAS-No.
Ethylbenzene	100-41-4
Naphthalene	91-20-3

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS

Warning: This product contains a substance known to the State of California to cause birth defects or other reproductive harm.

Chemical Name	CAS-No.
Toluene	108-88-3

International Regulations:

CANADIAN WHMIS:

This SDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

16. Other Information

HMIS RATINGS

Health:	2*	**Flammability:**	3	**Physical Hazard:**	0	**Personal Protection:**	X

CANADIAN WHMIS CLASS: B2 D2A

NFPA RATINGS

Health:	2	**Flammability:**	3	**Instability**	0

VOLATILE ORGANIC COMPOUNDS, g/L: 884

MSDS REVISION DATE: 8/14/2014

REASON FOR REVISION: No Information

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H227	Combustible liquid
H228	Flammable solid.
H310	Fatal in contact with skin.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.

Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS02

GHS06

GHS07

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.