



# COLORFILL

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Date of issue: 2/7/2023 Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : COLORFILL

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Adhesives, binding agents

#### 1.3. Supplier

**Supplier**  
IPS ADHESIVES  
600 ELLIS ROAD  
DURHAM  
NC 27703-6015, USA

#### 1.4. Emergency telephone number

Emergency number : 800-255-3924 (Domestic) +1-813-248-0585 (International)  
EHSVelocity 24hrs/7days

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Flammable liquids Category 2	H225	Highly flammable liquid and vapor
Serious eye damage/eye irritation Category 2	H319	Causes serious eye irritation
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336	May cause drowsiness or dizziness

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

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

Precautionary statements (GHS US) :

P102 - Keep out of reach of children.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P304+P340 - If inhaled: Remove person to fresh air and keep 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.  
P271 - Use only outdoors or in a well-ventilated area.

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### 2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Repeated or prolonged contact may cause slight irritation to the skin or cracking. Safety data sheet available on request.

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
CELLULOSE ACETATE BUTYRATE	CAS-No.: 9004-36-8	≥ 20 – < 50	Acute Tox. 4 (Dermal), H312
PROPAN-2-OL	CAS-No.: 67-63-0	≥ 10 – < 20	Not classified
ACETONE	CAS-No.: 67-64-1	≥ 10 – < 20	Flam. Liq. 2, H225
ETHYL METHYL KETONE	CAS-No.: 78-93-3	≥ 10 – < 20	Not classified
BARIUM SULPHATE	CAS-No.: 7727-43-7	≥ 1 – < 5	Not classified
QUARTZ (CRYSTALLINE SILICA)	CAS-No.: 14808-60-7	< 1	Carc. 1A, H350
GLYCEROL	CAS-No.: 56-81-5	< 1	Acute Tox. 2 (Oral), H300
2,6-DI-TERT-BUTYL-P-CRESOL	CAS-No.: 128-37-0	< 1	STOT RE 2, H373

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.  
First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. If skin irritation occurs: Get medical advice/attention.  
First-aid measures after eye contact : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If eye irritation persists: Get medical advice/attention.  
First-aid measures after ingestion : Rinse mouth out with water. Get medical advice/attention.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Inhalation may cause: irritation (cough, short breathing, difficulty in breathing). May cause shortness of breath, tightness of the chest, a sore throat and cough.  
Symptoms/effects after skin contact : irritation (itching, redness, blistering).  
Symptoms/effects after eye contact : redness, itching, tears.  
Symptoms/effects after ingestion : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).  
Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

- Fire hazard : Flammable liquid and vapor.  
Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. Toxic fumes may be released.

#### 5.3. Special protective equipment and precautions for fire-fighters

- Precautionary measures fire : Eliminate all ignition sources if safe to do so.  
Firefighting instructions : Do not enter fire area without proper protective equipment, including respiratory protection. Use water spray or fog for cooling exposed containers. Eliminate all ignition sources if safe to do so.  
Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Do not handle until all safety precautions have been read and understood.

##### 6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Keep upwind. Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene.  
Measures in case of dust release : Do not inhale dusts, particulates and spray mist when using this preparation.

##### 6.1.2. For emergency responders

- Protective equipment : Use self-contained breathing apparatus and chemically protective clothing.  
Emergency procedures : Stop leak if safe to do so. Cover spill with non combustible material, e.g.: sand/earth.

#### 6.2. Environmental precautions

Do not allow to enter drains or water courses. Do not allow product to spread into the environment.

#### 6.3. Methods and material for containment and cleaning up

- For containment : Absorb spilled material with sand or earth.  
Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Additional hazards when processed : Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Precautions for safe handling : Avoid contact with skin, eyes and clothing. Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station.  
Handling temperature : 13 – 27 °C  
Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse.

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### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Keep container tightly closed.
Incompatible products	: Oxidizing agent. strong acids.
Incompatible materials	: Sources of ignition.
Storage temperature	: 13 – 27 °C
Storage area	: Store in a well-ventilated place. Store away from heat.
Special rules on packaging	: Keep only in original container.
Packaging materials	: Keep only in the original container in a cool, well-ventilated place away from combustible materials.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>COLORFILL</b>	
No additional information available	
<b>ETHYL METHYL KETONE (78-93-3)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Methyl ethyl ketone (MEK)
ACGIH OEL TWA [ppm]	200 ppm
ACGIH OEL STEL [ppm]	300 ppm
Remark (ACGIH)	TLV® Basis: URT irr; CNS & PNS impair. Notations: BEI
Regulatory reference	ACGIH 2022
<b>USA - ACGIH - Biological Exposure Indices</b>	
Local name	METHYL ETHYL KETONE
BEI (BLV)	2 mg/l Parameter: Methyl ethyl ketone - Medium: urine - Sampling time: End of shift - Notations: Ns
Regulatory reference	ACGIH 2022
<b>USA - OSHA - Occupational Exposure Limits</b>	
Local name	2-Butanone (Methyl ethyl ketone)
OSHA PEL (TWA) [1]	590 mg/m³
OSHA PEL (TWA) [2]	200 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
<b>PROPAN-2-OL (67-63-0)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	2-Propanol
ACGIH OEL TWA [ppm]	200 ppm
ACGIH OEL STEL [ppm]	400 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2023

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<b>PROPAN-2-OL (67-63-0)</b>	
<b>USA - ACGIH - Biological Exposure Indices</b>	
Local name	2-PROPANOL
BEI (BLV)	40 mg/l Parameter: Acetone - Medium: urine - Sampling time: End of shift at end of workweek - Notations: B, Ns
Regulatory reference	ACGIH 2023
<b>USA - OSHA - Occupational Exposure Limits</b>	
Local name	Isopropyl alcohol
OSHA PEL (TWA) [1]	980 mg/m <sup>3</sup>
OSHA PEL (TWA) [2]	400 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
<b>GLYCEROL (56-81-5)</b>	
<b>USA - OSHA - Occupational Exposure Limits</b>	
Local name	Glycerin (mist)
OSHA PEL (TWA) [1]	15 mg/m <sup>3</sup> (Total dust) 5 mg/m <sup>3</sup> (Respirable fraction)
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
<b>CELLULOSE ACETATE BUTYRATE (9004-36-8)</b>	
No additional information available	
<b>BARIUM SULPHATE (7727-43-7)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Barium sulfate
ACGIH OEL TWA	5 mg/m <sup>3</sup> (I - Inhalable particulate matter, E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica)
Remark (ACGIH)	TLV® Basis: Pneumoconiosis
Regulatory reference	ACGIH 2022
<b>USA - OSHA - Occupational Exposure Limits</b>	
Local name	Barium sulfate
OSHA PEL (TWA) [1]	15 mg/m <sup>3</sup> (Total dust) 5 mg/m <sup>3</sup> (Respirable fraction)
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
<b>ACETONE (67-64-1)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Acetone
ACGIH OEL TWA [ppm]	250 ppm
ACGIH OEL STEL [ppm]	500 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2022

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ACETONE (67-64-1)				
<b>USA - ACGIH - Biological Exposure Indices</b>				
Local name	ACETONE			
BEI (BLV)	25 mg/l Parameter: Acetone - Medium: urine - Sampling time: End of shift - Notations: Ns			
Regulatory reference	ACGIH 2022			
<b>USA - OSHA - Occupational Exposure Limits</b>				
Local name	Acetone			
OSHA PEL (TWA) [1]	2400 mg/m <sup>3</sup>			
OSHA PEL (TWA) [2]	1000 ppm			
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1			
2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)				
<b>USA - ACGIH - Occupational Exposure Limits</b>				
Local name	Butylated hydroxytoluene			
ACGIH OEL TWA	2 mg/m <sup>3</sup> (IFV - Inhalable fraction and vapor)			
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)			
Regulatory reference	ACGIH 2022			
QUARTZ (CRYSTALLINE SILICA) (14808-60-7)				
<b>USA - ACGIH - Occupational Exposure Limits</b>				
Local name	Silica crystalline - quartz			
ACGIH OEL TWA	0.025 mg/m <sup>3</sup> (R - Respirable particulate matter)			
Remark (ACGIH)	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)			
Regulatory reference	ACGIH 2022			
8.2. Appropriate engineering controls				
Appropriate engineering controls	: Ensure that there is a suitable ventilation system.			
Environmental exposure controls	: Avoid release to the environment.			
8.3. Individual protection measures/Personal protective equipment				
<b>Personal protective equipment:</b> Gloves. Protective clothing. Safety glasses.				
<b>Hand protection:</b>				
nitrile rubber gloves				
Type	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves	nitrile rubber (NBR)	2 (> 30 minutes)	< 0.7	2 (< 1.5)
<b>Eye protection:</b>				
Safety glasses				
Type	Field of application	Characterizations		
Safety glasses	Droplet	With side shields		

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<b>Skin and body protection:</b>
<b>Type</b>
Disposable gloves
<b>Respiratory protection:</b>
Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Colorless.
Odor	: Characteristic odour
Odor threshold	: No data available
pH	: No data available
Melting point	: -48 °C Based on MMA
Freezing point	: No data available
Boiling point	: 80 °C
Flash point	: 0 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 53 hPa @ 20C
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 0.979 g/ml
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: 465
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: Lower explosion limit: 2.1 vol % @10.5°C based on MMA data Upper explosion limit: 12.5 vol % based on MMA data
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5. Incompatible materials

strong acids. Oxidizing agent.

### 10.6. Hazardous decomposition products

May liberate toxic gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

#### PROPAN-2-OL (67-63-0)

LD50 oral rat	5840 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
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ATE US (oral)	5840 mg/kg body weight
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#### GLYCEROL (56-81-5)

LD50 oral rat	27 mg/kg body weight Animal: rat, Animal sex: female
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ATE US (oral)	27 mg/kg body weight
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#### CELLULOSE ACETATE BUTYRATE (9004-36-8)

LD50 oral rat	> 3200 mg/kg
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LD50 dermal	> 1000 mg/kg Guinea Pig
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ATE US (dermal)	1100 mg/kg body weight
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#### ACETONE (67-64-1)

LD50 oral rat	5800 mg/kg
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LD50 dermal rat	> 15800 mg/kg
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ATE US (oral)	5800 mg/kg body weight
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#### 2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)

LD50 oral rat	> 2930 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
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LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
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#### QUARTZ (CRYSTALLINE SILICA) (14808-60-7)

LD50 oral rat	> 2000 mg/kg
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LD50 dermal rat	> 2000 mg/kg
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Skin corrosion/irritation : Not classified



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ACETONE (67-64-1)	
pH	5 – 6
Serious eye damage/irritation	: Causes serious eye irritation.
ACETONE (67-64-1)	
pH	5 – 6
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
PROPAN-2-OL (67-63-0)	
IARC group	3 - Not Classifiable
BARIUM SULPHATE (7727-43-7)	
NOAEL (chronic,oral,animal/male,2 years)	60 mg/kg body weight Animal: rat, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information)
NOAEL (chronic,oral,animal/female,2 years)	75 mg/kg body weight Animal: rat, Animal sex: female, Remarks on results: other:Effect type: carcinogenicity (migrated information)
2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)	
NOAEL (chronic,oral,animal/male,2 years)	25 mg/kg body weight Animal: rat, Animal sex: male, Remarks on results: other:Effect type: toxicity (migrated information)
IARC group	3 - Not Classifiable
QUARTZ (CRYSTALLINE SILICA) (14808-60-7)	
IARC group	1 - Carcinogenic to Humans
National Toxicity Program (NTP) Status	Known Human Carcinogens
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)	
LOAEL (oral,rat,90 days)	100 mg/kg body weight Animal: rat, Animal sex: male
NOAEL (oral,rat,90 days)	25 mg/kg body weight Animal: rat, Animal sex: male
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after inhalation	: Inhalation may cause: irritation (cough, short breathing, difficulty in breathing). May cause shortness of breath, tightness of the chest, a sore throat and cough.
Symptoms/effects after skin contact	: irritation (itching, redness, blistering).
Symptoms/effects after eye contact	: redness, itching, tears.
Symptoms/effects after ingestion	: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

## SECTION 12: Ecological information

### 12.1. Toxicity

ETHYL METHYL KETONE (78-93-3)	
LC50 - Fish [1]	2993 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	308 mg/l Test organisms (species): Daphnia magna

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<b>ETHYL METHYL KETONE (78-93-3)</b>	
EC50 72h - Algae [1]	1972 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	2029 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
<b>PROPAN-2-OL (67-63-0)</b>	
LC50 - Fish [1]	10000 mg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	9640 mg/l Test organisms (species): Pimephales promelas
<b>GLYCEROL (56-81-5)</b>	
LC50 - Fish [1]	54000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
<b>BARIUM SULPHATE (7727-43-7)</b>	
EC50 72h - Algae [1]	> 1.15 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	> 30.07 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
<b>2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)</b>	
LC50 - Fish [1]	0.199 mg/l
EC50 - Crustacea [1]	0.48 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	0.48 mg/l Aquatic invertebrates
EC50 72h - Algae [1]	> 0.4 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	0.758 mg/l
LOEC (chronic)	1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.023 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.053 mg/l Test organisms (species): Oryzias latipes Duration: '42 d'

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

<b>2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)</b>	
Bioconcentration factor (BCF REACH)	598
Partition coefficient n-octanol/water (Log Pow)	5.2

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

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### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Industrial waste.
Ecology - waste materials	: Avoid release to the environment.

### SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

#### 14.1. UN number

DOT NA no.	: UN1133
UN-No. (TDG)	: Not applicable
UN-No. (IMDG)	: 1133
UN-No. (IATA)	: 1133

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Adhesives
Proper Shipping Name (TDG)	: Not applicable
Proper Shipping Name (IMDG)	: Adhesives
Proper Shipping Name (IATA)	: Adhesives

#### 14.3. Transport hazard class(es)

##### DOT

Transport hazard class(es) (DOT)	: 3
Hazard labels (DOT)	: 3



##### TDG

Transport hazard class(es) (TDG)	: Not applicable
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##### IMDG

Transport hazard class(es) (IMDG)	: 3
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##### IATA

Transport hazard class(es) (IATA)	: 3
Hazard labels (IATA)	: 3



#### 14.4. Packing group

Packing group (DOT)	: II
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Packing group (TDG) : Not applicable  
Packing group (IMDG) : II  
Packing group (IATA) : II

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### DOT

UN-No.(DOT) : UN1133  
DOT Special Provisions (49 CFR 172.102) : 149 - When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packaging may be increased to 5 L (1.3 gallons).  
B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.  
IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.  
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)  
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling =  $97 / 1 + a (tr - tf)$  Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.  
TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F).  
DOT Packaging Exceptions (49 CFR 173.xxx) : 150  
DOT Packaging Non Bulk (49 CFR 173.xxx) : 173  
DOT Packaging Bulk (49 CFR 173.xxx) : 242  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L  
DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

#### TDG

Emergency Response Guide (ERG) Number : 128

#### IMDG

No data available

#### IATA

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y341  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 353  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 364  
CAO max net quantity (IATA) : 60L  
Special provision (IATA) : A3  
ERG code (IATA) : 3L

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

PROPAN-2-OL	CAS-No. 67-63-0	≥ 10 – < 20%
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#### ETHYL METHYL KETONE (78-93-3)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	5000 lb
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#### ACETONE (67-64-1)

CERCLA RQ	5000 lb
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#### 15.2. International regulations

##### CANADA

#### ETHYL METHYL KETONE (78-93-3)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### PROPAN-2-OL (67-63-0)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### GLYCEROL (56-81-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### CELLULOSE ACETATE BUTYRATE (9004-36-8)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### BARIUM SULPHATE (7727-43-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### ACETONE (67-64-1)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### 2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### QUARTZ (CRYSTALLINE SILICA) (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

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### EU-Regulations

No additional information available

### National regulations

#### ETHYL METHYL KETONE (78-93-3)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### PROPAN-2-OL (67-63-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### GLYCEROL (56-81-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### CELLULOSE ACETATE BUTYRATE (9004-36-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### BARIUM SULPHATE (7727-43-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### ACETONE (67-64-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### 2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### QUARTZ (CRYSTALLINE SILICA) (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)  
Listed as carcinogen on NTP (National Toxicology Program)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

## SECTION 16: Other information

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Data sources : ECHA (European Chemicals Agency).

#### Full text of H-phrases

H225	Highly flammable liquid and vapor
H300	Fatal if swallowed
H312	Harmful in contact with skin
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

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Full text of H-phrases	
H350	May cause cancer
H373	May cause damage to organs through prolonged or repeated exposure

Abbreviations and acronyms	
CAS-No.	Chemical Abstract Service number
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
ED	Endocrine disrupting properties
EN	European Standard
IARC	International Agency for Research on Cancer
IOELV	Indicative Occupational Exposure Limit Value
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
N.O.S.	Not Otherwise Specified
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

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<b>Abbreviations and acronyms</b>	
SDS	Safety Data Sheet
STP	Purification plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TRGS	Technical Rules for Hazardous Substances
vPvB	Very Persistent and Very Bioaccumulative
VOC	Volatile Organic Compounds
WGK	Water Hazard Class

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.