



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## PVC Cement Clear

Version number: 1.0

Date of compilation: 2022-04-29

### SECTION 1: Identification

- 1.1 Product identifier
- Trade name **ALLOPAR PVC CEMENT CLEAR**
- Product category/ies
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Relevant identified uses adhesive CPVC solvent cement
- 1.3 Details of the supplier of the safety data sheet
- Phone: +001-240-593-2922**  
**Address: American Pacific Trader LLC**  
**USA Trade Office, 1924-Power Lane**  
**Cattons Villa MD-21228 USA**

### SECTION 2: Hazard(s) identification

- 2.1 Classification of the substance or mixture
- Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Hazard class	Category
acute toxicity (oral)	4
skin corrosion/irritation	2
serious eye damage/eye irritation	2
carcinogenicity	2
specific target organ toxicity - single exposure (respiratory tract irritation)	3
flammable liquid	2

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

- 2.2 Label elements
- Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)
- Signal word **danger**



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### - Pictograms

GHS02, GHS07, GHS08



### - Hazard statements

- H225 Highly flammable liquid and vapor.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.

### - Precautionary statements

- P101 P102 P201 If medical advice is needed, have product container or label at hand.
- P210 P240 P241 Keep out of reach of children.
- P242 P243 P261 Obtain special instructions before use.
- P270 P271 P280 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P301+P312 Ground/bond container and receiving equipment.
- P302+P352 Use explosion-proof electrical/ventilating/lighting equipment.
- P303+P361+P353 Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/eye protection/face protection.  
If swallowed: Call a poison center/doctor if you feel unwell.  
If on skin: Wash with plenty of water.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 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.
- P312 P321 Call a poison center/doctor if you feel unwell.
- P330 P362 Specific treatment (see on this label).
- P370+P378 Rinse mouth.
- P403+P233 Take off contaminated clothing and wash it before reuse.
- P403+P235 In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
- P405 P501 Store in a well-ventilated place. Keep container tightly closed.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container to industrial combustion plant.

### - Hazardous ingredients for labelling

tetrahydrofuran, 1,2-butylene oxide, cyclohexanone

### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

### Hazards not otherwise classified

- May form explosive peroxides.
- Contains epoxy constituents. May produce an allergic reaction.



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### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not relevant (mixture)

#### 3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS
tetrahydrofuran	CAS No 109-99-9	50 – < 75	Acute Tox. 4 / H302 Eye Irrit. 2 / H319 Carc. 2 / H351 STOT SE 3 / H335 Flam. Liq. 2 / H225
cyclohexanone	CAS No 108-94-1	10 – < 25	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 3 / H331 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335 Flam. Liq. 3 / H226
PVC Resin	CAS No 9002-86-2	1 – < 5	
1,2-butylene oxide	CAS No 106-88-7	< 1	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 3 / H331 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Carc. 2 / H351 STOT SE 3 / H335 Flam. Liq. 2 / H225

For full text of abbreviations: see SECTION 16.

### SECTION 4: First-aid measures

#### 4.1 Description of first-aid measures

##### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

##### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

##### Following skin contact

Wash with plenty of soap and water.

##### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

##### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.



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- 4.2 Most important symptoms and effects, both acute and delayed  
Symptoms and effects are not known to date.
- 4.3 Indication of any immediate medical attention and special treatment needed  
none

### SECTION 5: Fire-fighting measures

- 5.1 Extinguishing media  
Suitable extinguishing media  
Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>)  
Unsuitable extinguishing media  
Water jet
- 5.2 Special hazards arising from the substance or mixture  
In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.  
Hazardous combustion products  
Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)  
Flash point -6.16 °F at 101.3 kPa
- 5.3 Advice for firefighters  
In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures  
For non-emergency personnel  
Remove persons to safety.  
For emergency responders  
Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.
- 6.2 Environmental precautions  
Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.
- 6.3 Methods and material for containment and cleaning up  
Advice on how to contain a spill  
Covering of drains  
Advice on how to clean up a spill  
Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder  
Appropriate containment techniques  
Use of adsorbent materials.



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### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Recommendations

#### - Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

#### - Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

#### Managing of associated risks

#### - Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

#### - Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

#### - Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

#### - Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

### 7.3 Specific end use(s)

See section 16 for a general overview.



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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
UAE	cyclohexanone	108-94-1	PEL (CA)	25	100						Cal/ OSHA PEL
UAE	cyclohexanone	108-94-1	REL	25 (10 h)	100 (10 h)						NIOSH REL
UAE	cyclohexanone	108-94-1	PEL	50	200						29 CFR 1910.1000
UAE	cyclohexanone	108-94-1	TLV®	20		50				H	ACGIH® 2022
UAE	tetrahydrofuran	109-99-9	REL	200 (10 h)	590 (10 h)	250	735				NIOSH REL
UAE	tetrahydrofuran	109-99-9	PEL	200	590						29 CFR 1910.1000
UAE	tetrahydrofuran	109-99-9	TLV®	50		100				H	ACGIH® 2022
UAE	tetrahydrofuran (THF)	109-99-9	PEL (CA)	200	590	250	735				Cal/ OSHA PEL
UAE	titanium dioxide	13463-67-7	PEL		15					i, dust	29 CFR 1910.1000
UAE	titanium dioxide	13463-67-7	REL							lowest, appx-A	NIOSH REL
UAE	Titanium dioxide finescale particles	13463-67-7	TLV®		2.5					r	ACGIH® 2022
UAE	Titanium dioxide nanoscale particles	13463-67-7	TLV®		0.2					r	ACGIH® 2022
UAE	2-butanone	78-93-3	REL	200 (10 h)	590 (10 h)	300	885				NIOSH REL
UAE	2-butanone (methyl ethyl ketone)	78-93-3	PEL	200	590						29 CFR 1910.1000
UAE	methyl ethyl ketone	78-93-3	TLV®	200		300					ACGIH® 2022
UAE	methyl ethyl ketone (MEK) (2-butanone) (ethyl methyl ketone)	78-93-3	PEL (CA)	200	590	300	885				Cal/ OSHA PEL

**Notation**

appx-A NIOSH Potential Occupational Carcinogen (Appendix A)



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<u>Notation</u>	
Ceiling-C	ceiling value is a limit value above which exposure should not occur
dust	as dust
H	absorbed through the skin
i	inhalable fraction
lowest	exposure by all routes should be carefully controlled to levels as low as possible
r	respirable fraction
STEL	short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA	time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

### Biological limit values

Country	Name of agent	Parameter	Notation	Identifier	Value	Source
UAE	cyclohexanone	1,2-cyclohexanediol	hydr	BEI®	80 mg/l	ACGIH® 2022
UAE	cyclohexanone	cyclohexanol	hydr	BEI®	8 mg/l	ACGIH® 2022
UAE	tetrahydrofuran	tetrahydrofuran		BEI®	2 mg/l	ACGIH® 2022
UAE	PVC Resin					

<u>Notation</u>	
hydr	hydrolysis

### Relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
tetrahydrofuran	109-99-9	DNEL	72.4 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
tetrahydrofuran	109-99-9	DNEL	96 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
tetrahydrofuran	109-99-9	DNEL	150 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
tetrahydrofuran	109-99-9	DNEL	300 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
tetrahydrofuran	109-99-9	DNEL	12.6 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
cyclohexanone	108-94-1	DNEL	10 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
cyclohexanone	108-94-1	DNEL	20 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
cyclohexanone	108-94-1	DNEL	10 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
cyclohexanone	108-94-1	DNEL	20 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
cyclohexanone	108-94-1	DNEL	4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
cyclohexanone	108-94-1	DNEL	4 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
PVC Resin	9002-86-2					



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### Relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
methyl ethyl ketone	78-93-3	DNEL	1,161 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

### Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
tetrahydrofuran	109-99-9	PNEC	4.32 mg/l	aquatic organisms	freshwater	short-term (single instance)
tetrahydrofuran	109-99-9	PNEC	0.432 mg/l	aquatic organisms	marine water	short-term (single instance)
tetrahydrofuran	109-99-9	PNEC	4.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
tetrahydrofuran	109-99-9	PNEC	23.3 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
tetrahydrofuran	109-99-9	PNEC	2.33 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
tetrahydrofuran	109-99-9	PNEC	2.13 mg/kg	terrestrial organisms	soil	short-term (single instance)
cyclohexanone	108-94-1	PNEC	0.356 mg/l	aquatic organisms	freshwater	short-term (single instance)
cyclohexanone	108-94-1	PNEC	0.036 mg/l	aquatic organisms	marine water	short-term (single instance)
cyclohexanone	108-94-1	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
cyclohexanone	108-94-1	PNEC	2.69 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
cyclohexanone	108-94-1	PNEC	0.269 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
cyclohexanone	108-94-1	PNEC	0.328 mg/kg	terrestrial organisms	soil	short-term (single instance)
methyl ethyl ketone	78-93-3	PNEC	55.8 mg/l	aquatic organisms	freshwater	short-term (single instance)
methyl ethyl ketone	78-93-3	PNEC	55.8 mg/l	aquatic organisms	marine water	short-term (single instance)
methyl ethyl ketone	78-93-3	PNEC	709 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
methyl ethyl ketone	78-93-3	PNEC	284.7 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
PVC Resin	9002-86-2	PNEC	284.7 mg/kg	aquatic organisms	marine sediment	short-term (single instance)



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Relevant PNECs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
PVC Resin	9002-86-2	PNEC	22.5 mg/kg	terrestrial organisms	soil	short-term (single instance)
1,2-butylene oxide	106-88-7	PNEC	0.07 mg/l	aquatic organisms	freshwater	short-term (single instance)
1,2-butylene oxide	106-88-7	PNEC	0.007 mg/l	aquatic organisms	marine water	short-term (single instance)
1,2-butylene oxide	106-88-7	PNEC	9 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
1,2-butylene oxide	106-88-7	PNEC	0.062 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
1,2-butylene oxide	106-88-7	PNEC	0.016 mg/kg	terrestrial organisms	soil	short-term (single instance)

### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation.

#### Individual protection measures (personal protective equipment)

##### Eye/face protection

Wear eye/face protection.

##### Skin protection

###### - Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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.

###### - Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

##### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.



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### SECTION 9: Physical and chemical properties

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

##### Appearance

Physical state	liquid (viscous)
Color	ORANGE
Particle	not relevant (liquid)
Odor	characteristic

##### Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	65 °C at 101.3 kPa
Flash point	-21.2 °C at 101.3 kPa
Flash point	-6.16 °F at 101.3 kPa
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Vapor pressure	17 kPa at 20 °C
Density	0.984 g/cm <sup>3</sup> at 73 °F
Vapor density	this information is not available
Solubility(ies)	not determined

##### Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	215 °C (auto-ignition temperature (liquids and gases))

##### Viscosity

- Dynamic viscosity	1,800 – 2,400 cP at 73 °F
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Explosive properties	explosive
Oxidizing properties	none

### 9.2 Other information

VOC content	When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: $\leq 490$ g/L.
Temperature class (KSA, acc. to NEC 500)	T3 (maximum permissible surface temperature on the equipment: 200°C)

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

#### If heated:

Risk of ignition

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

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

#### Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

### 10.5 Incompatible materials

Oxidizers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

#### Acute toxicity

Harmful if swallowed.



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GHS of the United Nations, annex 4: May be harmful in contact with skin.

### - Acute toxicity estimate (ATE)

Oral 679.4 mg/kg

#### Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
tetrahydrofuran	109-99-9	oral	500 mg/kg
cyclohexanone	108-94-1	oral	500 mg/kg
cyclohexanone	108-94-1	dermal	1,100 mg/kg
cyclohexanone	108-94-1	inhalation: vapor	>6.2 mg/l/4h
1,2-butylene oxide	106-88-7	oral	500 mg/kg
1,2-butylene oxide	106-88-7	dermal	1,100 mg/kg
1,2-butylene oxide	106-88-7	inhalation: vapor	>6.3 mg/l/4h

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/eye irritation

Causes serious eye irritation.

### Respiratory or skin sensitization

Contains epoxy constituents. May produce an allergic reaction.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Suspected of causing cancer.

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of substance	CAS No	Classification	Number
tetrahydrofuran	109-99-9	2B	
cyclohexanone	108-94-1	3	
1,2-butylene oxide	106-88-7	2B	

#### Legend

2B Possibly carcinogenic to humans  
3 Not classifiable as to carcinogenicity in humans

### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

May cause respiratory irritation.



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### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

### 12.2 Persistence and degradability

Data are not available.

### 12.3 Bioaccumulative potential

Data are not available.

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

Information on this property is not available.

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Waste treatment-relevant information

Solvent reclamation/regeneration.

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.



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### SECTION 14: Transport information

14.1	UN number	
	DOT	UN 1133
	IMDG-Code	UN 1133
	ICAO-TI	UN 1133
14.2	UN proper shipping name	
	DOT	Adhesives
	IMDG-Code	ADHESIVES
	ICAO-TI	Adhesives
14.3	Transport hazard class(es)	
	DOT	3
	IMDG-Code	3
	ICAO-TI	3
14.4	Packing group	
	DOT	II II II
	IMDG-Code	non-environmentally hazardous acc. to the dangerous goods regulations
	ICAO-TI	
14.5	Environmental hazards	
14.6	Special precautions for user	
	There is no additional information.	
14.7	Transport in bulk according to IMO instruments	
	The cargo is not intended to be carried in bulk.	

#### Information for each of the UN Model Regulations

##### Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Particulars in the shipper's declaration	UN1133, Adhesives, 3, II
Reportable quantity (RQ)	1,579 lbs (716.8 kg)(tetrahydrofuran)(MEK)
Danger label(s)	3



Special provisions (SP)	149, B52, IB2, T4, TP1, TP8
ERG No	128



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### International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant -  
 Danger label(s) 3



Special provisions (SP) -  
 Excepted quantities (EQ) E2  
 Limited quantities (LQ) 5 L  
 EmS F-E, S-D  
 Stowage category B

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Danger label(s) 3



Special provisions (SP) A3  
 Excepted quantities (EQ) E2  
 Limited quantities (LQ) 1 L

### Toxics Release Inventory: Specific Toxic Chemical Listings

Name of substance	CAS No	Remarks	Effective date
1,2-butylene oxide	106-88-7		1987-01-01

### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
tetrahydrofuran	109-99-9		4	1000 (454)
PVC Resin	9002-86-2			
cyclohexanone	108-94-1		4	5000 (2270)
1,2-butylene oxide	106-88-7		3	100 (45,4)



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### Legend

3 4

"3" indicates that the source is section 112 of the Clean Air Act

"4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

### Right to Know Hazardous Substance List

#### - Cleaning Product Right to Know Act Substance List (CA-RTK)

Name of substance	CAS No	Functionality	Authoritative Lists
tetrahydrofuran	109-99-9		CDC 4th National Exposure Report CWA 303(d) IARC Carcinogens - 2B IRIS Neurotoxicants
PVC Resin	9002-86-2		
1,2-butylene oxide	106-88-7		CA TACs IARC Carcinogens - 2B OEHHA RELs

#### - Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
tetrahydrofuran	109-99-9				1.0 %
PVC Resin	9002-86-2				
cyclohexanone	108-94-1				1.0 %
1,2-butylene oxide	106-88-7				0.1 %

#### - Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
tetrahydrofuran	109-99-9	A, O	
PVC Resin	9002-86-2		
cyclohexanone	108-94-1	A, N, O	skin



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### - Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
tetrahydrofuran	109-99-9		F3 R1
PVC Resin	9002-86-2		
cyclohexanone	108-94-1		F2
1,2-butylene oxide	106-88-7		CA MU F3 R2

#### Legend

CA Carcinogenic  
 F2 Flammable - Second Degree  
 F3 Flammable - Third Degree  
 MU Mutagenic  
 R1 Reactive - First Degree  
 R2 Reactive - Second Degree

### - Hazardous Substance List (Chapter 323) (PA-RTK)

Name acc. to inventory	CAS No	Classification
FURAN, TETRAHYDRO-	109-99-9	E
2-BUTANONE	78-93-3	E
CYCLOHEXANONE	108-94-1	E
OXIRANE, ETHYL-	106-88-7	E

#### Legend

E Environmental hazard

### - Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
tetrahydrofuran	109-99-9	T, F
PVC Resin	9002-86-2	
cyclohexanone	108-94-1	T, F
1,2-butylene oxide	106-88-7	F

#### Legend

F T Flammability (NFPA®)  
 Toxicity (ACGIH®)

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987



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### Proposition 65 List of chemicals

Name acc. to inventory	CAS No	Remarks	Type of the toxicity
tetrahydrofuran	109-99-9		cancer
styrene	100-42-5		cancer

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	2	temporary or minor injury may occur
Flammability	3	material that can be ignited under almost all ambient temperature conditions
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

Category	Degree of hazard	Description
Flammability	3	material that can be ignited under almost all ambient temperature conditions
Health	2	material that, under emergency conditions, can cause temporary incapacitation or residual injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

### National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed



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Country	Inventory	Status
MX	INSQ	not all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
TR	CICR	not all ingredients are listed

### Legend

AIIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

## 15.2 Chemical Safety Assessment

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

## SECTION 16: Other information, including date of preparation or last revision

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
Acute Tox.	Acute toxicity
ATE	Acute Toxicity Estimate
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DEP CODE	Department of Environmental Protection Code



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Abbr.	Descriptions of used abbreviations
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ERG No	Emergency Response Guidebook - Number
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HHS	Higher hazard substance
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LHS	Lower hazard substance
NFPA®	National Fire Protection Association (United States)
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NLP	No-Longer Polymer
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin



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Abbr.	Descriptions of used abbreviations
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TLV®	Threshold Limit Values
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.