

Version number: 2.0 Replaces version of: 2023-02-03 (1)

SECTION 1: Identification

1.1 Product identifier

Trade name

Viking Blazemaster Red Cement for CPVC Plastic Pipe

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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

Viking Plastics LLC 5150 Beltway Dr. SE Caledonia Michigan 49316 United States

Telephone: 1-800-968-9501

1.4 Emergency telephone number

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
serious eye damage/eye irritation	2
skin sensitization	1
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
- Pictograms

GHS02, GHS07, GHS08

United States: en



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- Hazard statements		
H225	Highly flammable liquid and vapor.	
H302	Harmful if swallowed.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
H351	Suspected of causing cancer.	
- Precautionary statem	ients	
P101	If medical advice is needed, have pr	oduct container or label at hand.
P102	Keep out of reach of children.	
P201	Obtain special instructions before u	ISE.
P210	Keep away from heat/sparks/open	
P240	Ground/bond container and receivi	
P241	Use explosion-proof electrical/venti	
P242	Use only non-sparking tools.	
P243	Take precautionary measures agair	nst static discharge.
P261	Avoid breathing dust/fume/gas/mis	
P270	Do not eat, drink or smoke when us	ing this product.
P271	Use only outdoors or in a well-venti	lated area.
P272	Contaminated work clothing must r	not be allowed out of the workplace.
P280	Wear protective gloves/eye protecti	on/face protection.
P301+P312	If swallowed: Call a poison center/d	octor if you feel unwell.
P302+P352	If on skin: Wash with plenty of wate	r.
P303+P361+P353	If on skin (or hair): Take off immedia water/shower.	ately all contaminated clothing. Rinse skin with
P304+P340	If inhaled: Remove person to fresh	air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with wat easy to do. Continue rinsing.	er for several minutes. Remove contact lenses, if present and
P312	Call a poison center/doctor if you fe	el unwell.
P321	Specific treatment (see on this label).
P330	Rinse mouth.	
P363	Wash contaminated clothing before	e reuse.
P370+P378	In case of fire: Use sand, carbon dic	xide or powder extinguisher to extinguish.
P403+P233	Store in a well-ventilated place. Kee	p container tightly closed.
P403+P235	Store in a well-ventilated place. Kee	p cool.
P405	Store locked up.	
P501	Dispose of contents/container to in	dustrial combustion plant.
- Hazardous ingredien	ts for labelling	tetrahydrofuran, proprietary additive, Proprietary Additive, cyclohexanone

2.3 Other hazards

Hazards not otherwise classified

May form explosive peroxides.

Repeated exposure may cause skin dryness or cracking. Contains epoxy constituents. May produce an allergic reaction. Contains proprietary additive. May produce an allergic reaction.

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\ge 0.1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.



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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
acetone	CAS No 67-64-1	10 - < 25	Eye Irrit. 2 / H319 STOT SE 3 / H336 Flam. Liq. 2 / H225
cyclohexanone	CAS No 108-94-1	1-<5	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
methyl ethyl ketone	CAS No 78-93-3	1-<5	Eye Irrit. 2 / H319 STOT SE 3 / H336 Flam. Liq. 2 / H225
Proprietary Additive	CAS No Proprietary	0.1-<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
proprietary additive	CAS No proprietary	0.1-<1	Acute Tox. 4 / H302 Acute Tox. 3 / H311 Acute Tox. 3 / H331 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Muta. 2 / H341 STOT SE 1 / H370 STOT RE 1 / H372

Remarks

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.



acc. to 29 CFR 1910.1200 App D

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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.

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 (CO2)

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

Carbon monoxide (CO), Carbon dioxide (CO2)

Flash point

-6.16 °F at 101.3 kPa closed cup

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

Personal precautions, protective equipment and emergency procedures 6.1

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.



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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.

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

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Occu	Occupational exposure limit values (Workplace Exposure Limits)										
Coun- try	Name of agent	CAS No	Identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Nota- tion	Source
US	tin, organic com- pounds		REL		0.1 (10 h)					ex- C18H34 OSn, Sn, H	NIOSH REL
US	tin, organic com- pounds		PEL		0.1					Sn	29 CFR 1910.10 00
US	tin, organic com- pounds		PEL (CA)		0.1		0.2			Sn, H	Cal/OSH A PEL
US	tin, organic com- pounds		TLV®		0.1		0.2			Sn, H	ACGIH® 2023
US	cyclohexanone	108-94-1	PEL	50	200						29 CFR 1910.10 00
US	cyclohexanone	108-94-1	PEL (CA)	25	100					Н	Cal/OSH A PEL
US	cyclohexanone	108-94-1	REL	25 (10 h)	100 (10 h)					Н	NIOSH REL
US	cyclohexanone	108-94-1	TLV®	20		50				Н	ACGIH® 2023
US	tetrahydrofuran	109-99-9	REL	200 (10 h)	590 (10 h)	250	735				NIOSH REL
US	tetrahydrofuran	109-99-9	PEL	200	590						29 CFR 1910.10 00
US	tetrahydrofuran	109-99-9	TLV®	50		100				Н	ACGIH® 2023
US	tetrahydrofuran (THF)	109-99-9	PEL (CA)	200	590	250	735				Cal/OSH A PEL
US	silica, amorphous - precipitated and gel	112926-00- 8	PEL		0.8					eq3, dust	29 CFR 1910.10 00
US	silica, amorphous - precipitated and gel	112926-00- 8	PEL	706						partml, dust	29 CFR 1910.10 00
US	silica, amorphous - precipitated and gel	112926-00- 8	PEL (CA)		6					r	Cal/OSH A PEL
US	acetone	67-64-1	PEL (CA)	500	1,200	750	1,780	3,000			Cal/OSH A PEL
US	acetone	67-64-1	REL	250 (10 h)	590 (10 h)						NIOSH REL
US	acetone	67-64-1	TLV®	250		500					ACGIH®



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Coun- try	Name of agent	CAS No	Identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Nota- tion	Source
											2023
US	acetone	67-64-1	PEL	1,000	2,400						29 CFR 1910.10 00
US	silica, amorphous	7631-86-9	REL		6 (10 h)						NIOSH REL
US	2-butanone	78-93-3	REL	200 (10 h)	590 (10 h)	300	885				NIOSH REL
US	2-butanone (methyl ethyl ketone)	78-93-3	PEL	200	590						29 CFR 1910.10 00
US	methyl ethyl ketone	78-93-3	TLV®	200		300					ACGIH® 2023
US	methyl ethyl ketone (MEK) (2- butanone) (ethyl methyl ketone)	78-93-3	PEL (CA)	200	590	300	885				Cal/OSH A PEL

<u>Notation</u>

Ceiling-C	ceiling value is a limit value above which exposure should not occur
dust	as dust
eq3	mg/m ³ = 80/%SiO2
ex- C18H34OSn	except cyhexatin
Н	absorbed through the skin
partml	particles/ml
r	respirable fraction
Sn	calculated as Sn (tin)
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

Biologica	Biological limit values											
Country	Name of agent	Parameter	Notation	Identifier	Value	Source						
US	cyclohexanone	1,2-cyclohexanediol	hydr	BEI®	80 mg/l	ACGIH® 2023						
US	cyclohexanone	cyclohexanol	hydr	BEI®	8 mg/l	ACGIH® 2023						
US	tetrahydrofuran	tetrahydrofuran		BEI®	2 mg/l	ACGIH® 2023						
US	acetone	acetone		BEI®	25 mg/l	ACGIH® 2023						
US	methyl ethyl ketone	methyl ethyl ketone		BEI®	2 mg/l	ACGIH® 2023						

Notation

hydr hydrolysis



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Relevant DNELs of components								
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 ³	human, inhalatory	worker (industry)	chronic - systemic ef- fects		
tetrahydrofuran	109-99-9	DNEL	96 mg/m ³	human, inhalatory	worker (industry)	acute - systemic ef- fects		
tetrahydrofuran	109-99-9	DNEL	150 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects		
tetrahydrofuran	109-99-9	DNEL	300 mg/m ³	human, inhalatory	worker (industry)	acute - local effects		
tetrahydrofuran	109-99-9	DNEL	12.6 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic ef- fects		
acetone	67-64-1	DNEL	1,210 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic ef- fects		
acetone	67-64-1	DNEL	2,420 mg/m ³	human, inhalatory	worker (industry)	acute - local effects		
acetone	67-64-1	DNEL	186 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic ef- fects		
cyclohexanone	108-94-1	DNEL	10 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic ef- fects		
cyclohexanone	108-94-1	DNEL	20 mg/m ³	human, inhalatory	worker (industry)	acute - systemic ef- fects		
cyclohexanone	108-94-1	DNEL	10 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects		
cyclohexanone	108-94-1	DNEL	20 mg/m ³	human, inhalatory	worker (industry)	acute - local effects		
cyclohexanone	108-94-1	DNEL	4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic ef- fects		
cyclohexanone	108-94-1	DNEL	4 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic ef- fects		
methyl ethyl ketone	78-93-3	DNEL	600 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic ef- fects		
methyl ethyl ketone	78-93-3	DNEL	1,161 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic ef- fects		
proprietary additive	proprietary	DNEL	0.3 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic ef- fects		
proprietary additive	proprietary	DNEL	1.58 mg/m ³	human, inhalatory	worker (industry)	acute - systemic ef- fects		
proprietary additive	proprietary	DNEL	4.25 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic ef- fects		
proprietary additive	proprietary	DNEL	8.5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic ef- fects		

Relevant PNECs of components									
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental com- partment	Exposure time			
tetrahydrofuran	109-99-9	PNEC	4.32 ^{mg} / _l	aquatic organisms	freshwater	short-term (single in- stance)			
tetrahydrofuran	109-99-9	PNEC	0.432 ^{mg} / _l	aquatic organisms	marine water	short-term (single in-			



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Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental com- partment	Exposure time
						stance)
tetrahydrofuran	109-99-9	PNEC	4.6 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single stance)
tetrahydrofuran	109-99-9	PNEC	23.3 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single stance)
tetrahydrofuran	109-99-9	PNEC	2.33 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single stance)
tetrahydrofuran	109-99-9	PNEC	2.13 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single stance)
acetone	67-64-1	PNEC	10.6 ^{mg} / _l	aquatic organisms	freshwater	short-term (single stance)
acetone	67-64-1	PNEC	1.06 ^{mg} / _l	aquatic organisms	marine water	short-term (single stance)
acetone	67-64-1	PNEC	100 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single stance)
acetone	67-64-1	PNEC	30.4 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single stance)
acetone	67-64-1	PNEC	3.04 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single stance)
acetone	67-64-1	PNEC	29.5 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single stance)
cyclohexanone	108-94-1	PNEC	0.356 ^{mg} / _l	aquatic organisms	freshwater	short-term (single stance)
cyclohexanone	108-94-1	PNEC	0.036 ^{mg} / _l	aquatic organisms	marine water	short-term (single stance)
cyclohexanone	108-94-1	PNEC	10 ^{mg} /l	aquatic organisms	sewage treatment plant (STP)	short-term (single stance)
cyclohexanone	108-94-1	PNEC	2.69 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single stance)
cyclohexanone	108-94-1	PNEC	0.269 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single stance)
cyclohexanone	108-94-1	PNEC	0.328 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single stance)
methyl ethyl ketone	78-93-3	PNEC	55.8 ^{mg} / _l	aquatic organisms	freshwater	short-term (single stance)
methyl ethyl ketone	78-93-3	PNEC	55.8 ^{mg} / _l	aquatic organisms	marine water	short-term (single stance)
methyl ethyl ketone	78-93-3	PNEC	709 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single stance)
methyl ethyl ketone	78-93-3	PNEC	284.7 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single stance)
methyl ethyl ketone	78-93-3	PNEC	284.7 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single stance)
methyl ethyl ketone	78-93-3	PNEC	22.5 ^{mg} / _{kg}	terrestrial organ-	soil	short-term (single



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Relevant PNECs of components									
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental com- partment	Exposure time			
				isms		stance)			
Proprietary Additive	Proprietary	PNEC	0.07 ^{mg} / _l	aquatic organisms	freshwater	short-term (single in- stance)			
Proprietary Additive	Proprietary	PNEC	0.007 ^{mg} / _l	aquatic organisms	marine water	short-term (single in- stance)			
Proprietary Additive	Proprietary	PNEC	9 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single in- stance)			
Proprietary Additive	Proprietary	PNEC	0.062 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single in- stance)			
Proprietary Additive	Proprietary	PNEC	0.016 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single in- stance)			
proprietary additive	proprietary	PNEC	0.007 ^{mg} / _l	aquatic organisms	freshwater	short-term (single in- stance)			
proprietary additive	proprietary	PNEC	0.001 ^{mg} / _l	aquatic organisms	marine water	short-term (single in- stance)			
proprietary additive	proprietary	PNEC	10 ^{mg} /l	aquatic organisms	sewage treatment plant (STP)	short-term (single in- stance)			
proprietary additive	proprietary	PNEC	0.032 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single in- stance)			
proprietary additive	proprietary	PNEC	0.003 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single in- stance)			
proprietary additive	proprietary	PNEC	0.025 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single in- stance)			

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
Color	red
Particle	not relevant (liquid)
Odor	characteristic

Other safety parameters

not determined
not determined
56.05 °C
-21.2 °C at 101.3 kPa
-6.16 °F at 101.3 kPa
not determined
not relevant, (fluid)
240 hPa at 20 °C
0.989 ^g / _{cm³} at 73 °F
this information is not available
not determined

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	215 $^{\circ}\text{C}$ (auto-ignition temperature (liquids and gases))

Viscosity

- Dynamic viscosity	1,600 – 2,400 cP at 73 °F
Explosive properties	explosive
Oxidizing properties	none

9.2 Other information



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VOC content	When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: <= 510 g/L This product is not compliant for sale to Southern California or other regions due to the high VOC content. Please check your relevant state or re- gional regulations for more information.
Temperature class (USA, 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. GHS of the United Nations, annex 4: May be harmful in contact with skin.

- Acute toxicity estimate (ATE) Oral 869.1 mg/kg



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Name of substance	CAS No	Exposure route	ATE
tetrahydrofuran	109-99-9	oral	500 ^{mg} / _{kg}
tetrahydrofuran	109-99-9	dermal	>2,000 ^{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
methyl ethyl ketone	78-93-3	oral	2,054 ^{mg} / _{kg}
Proprietary Additive	Proprietary	oral	500 ^{mg} / _{kg}
Proprietary Additive	Proprietary	dermal	1,100 ^{mg} / _{kg}
Proprietary Additive	Proprietary	inhalation: vapor	>6.3 ^{mg} / _l /4h
proprietary additive	proprietary	oral	396 ^{mg} / _{kg}
proprietary additive	proprietary	dermal	777 ^{mg} / _{kg}
proprietary additive	proprietary	inhalation: vapor	3 ^{mg} / _l /4h
proprietary additive	proprietary	inhalation: dust/mist	0.941 ^{mg} / _l /4ł

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

May cause an allergic skin 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				
Proprietary Additive	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.

Other information

Repeated exposure may cause skin dryness or cracking.

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

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of \geq 0.1%.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

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.

SECTION 14: Transport information

14.1 UN number

DOT	UN 1133
IMDG-Code	UN 1133
ICAO-TI	UN 1133



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керіас	es version 01: 2023-02-03 (1)				
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			
	IMDG-Code	II			
	ICAO-TI	II			
14.5	Environmental hazards	non-environmentally hazardous acc. to the danger- ous goods regulations			
14.6	Special precautions for user There is no additional information.				
14.7	7 Transport in bulk according to IMO instruments The cargo is not intended to be carried in bulk. <u>Information for each of the UN Model Regulations</u>				
	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)	1,886 lbs (856.1 kg) (tetrahydrofuran) (1,2-butylene oxide)			
	Danger label(s)	3			
	Special provisions (SP)	149, B52, IB2, T4, TP1, TP8			
	ERG No	128			
	• •	128			
	ERG No	128			
	ERG No International Maritime Dangerous Goods Code (I	128 MDG) - Additional information			
	ERG No International Maritime Dangerous Goods Code (I Marine pollutant	128 (MDG) - Additional information - (not hazardous to the aquatic environment)			
	ERG No International Maritime Dangerous Goods Code (I Marine pollutant	128 (MDG) - Additional information - (not hazardous to the aquatic environment)			
	ERG No International Maritime Dangerous Goods Code (I Marine pollutant Danger label(s)	128 (MDG) - Additional information - (not hazardous to the aquatic environment)			



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	EmS	F-E, S-D
	Stowage category	В
	International Civil Aviation Organi	zation (ICAO-IATA/DGR) - Additional information
	Danger label(s)	3
	Special provisions (SP)	A3
	Excepted quantities (EQ)	E2
	Limited quantities (LQ)	1 L
SECT	TON 15: Regulatory information	
15.1	Safety, health and environmental i	egulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA) all ingredients are listed as "ACTIVE".

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings			
Name of substance	CAS No	Remarks	Effective date
Proprietary Additive	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)
methyl ethyl ketone	78-93-3		4	5000 (2270)
cyclohexanone	108-94-1		4	5000 (2270)
acetone	67-64-1		4	5000 (2270)
Proprietary Additive	106-88-7		3	100 (45,4)

<u>Legend</u>

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

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

Clean Air Act

none of the ingredients are listed



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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		CWA 303(d) IARC Carcinogens - 2B IRIS Neurotoxicants Prop 65
acetone	67-64-1		ATSDR Neurotoxicants
methyl ethyl ketone	78-93-3		ATSDR Neurotoxicants CA TACs OEHHA RELs
Proprietary Additive	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 Concen- tration Threshold
tetrahydrofuran	109-99-9				1.0 %
methyl ethyl ketone	78-93-3				1.0 %
cyclohexanone	108-94-1				1.0 %
acetone	67-64-1				1.0 %
Proprietary Additive	106-88-7				0.1 %

- Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
tetrahydrofuran	109-99-9	A, O	
methyl ethyl ketone	78-93-3	A, N, O	
cyclohexanone	108-94-1	A, N, O	skin
acetone	67-64-1	A, N, O	

<u>Legend</u>

- A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
- N National Institute for Occupational Safety and Health (NIOSH), "Recommendations for Occupational Safety and Health Standards," August 1988, available from NIOSH, Publications Dissemination Office, Division of Standards Development and Technology Transfer
- O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division

skin If a potential for absorption from skin contact merits special consideration, the word "skin" follows the substance name.



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- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
tetrahydrofuran	109-99-9		F3 R1
methyl ethyl ketone	78-93-3		F3
cyclohexanone	108-94-1		F2
acetone	67-64-1		F3
Proprietary Additive	106-88-7		CA MU F3 R2

<u>Legend</u>

- 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
2-PROPANONE	67-64-1	E
OXIRANE, ETHYL-	106-88-7	E

<u>Legend</u>

E Environmental hazard

- Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
tetrahydrofuran	109-99-9	T, F
tetrahydrofuran	109-99-9	T, F
tetrahydrofuran	109-99-9	T, F
methyl ethyl ketone	78-93-3	T, F
cyclohexanone	108-94-1	T, F
acetone	67-64-1	T, F
Proprietary Additive	106-88-7	F

<u>Legend</u>

F Flammability (NFPA®)

T Toxicity (ACGIH®)



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

Proposition 65 List of chemicals				
Name acc. to inventory	CAS No	Remarks	Type of the toxicity	
tetrahydrofuran	109-99-9		cancer	

Industry or sector specific available guidance(s)

NPCA-HMIS® III

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	-	

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

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 resid- ual 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	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
MX	INSQ	not all ingredients are listed
NZ	NZIoC	all ingredients are listed



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Country	Inventory	Status
PH	PICCS	all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)
EU	REACH Reg.	not all ingredients are listed
TR	CICR	not all ingredients are listed

<u>Legend</u>

AIIC	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

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-rel- evant
2.3		Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a con- centration of $\ge 0.1\%$.	yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0.1%.	yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Remarks: For full text of abbreviations: see SECTION 16	yes
5.2	Flash point: -6.16 °F at 101.3 kPa	Flash point: -6.16 °F at 101.3 kPa closed cup	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.1		Biological limit values: change in the listing (table)	yes



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Section	Former entry (text/value)	Actual entry (text/value)	Safety-rel- evant
9.2	VOC content: When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: <= 510 g/L	VOC content: When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: <= 510 g/L This product is not compliant for sale to Southern California or other regions due to the high VOC con- tent. Please check your relevant state or regional regulations for more information.	yes
11.1		Acute toxicity estimate (ATE) of components: change in the listing (table)	yes
12.5	Results of PBT and vPvB assessment: Data are not available.	Results of PBT and vPvB assessment: According to the results of its assessment, this sub- stance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of \geq 0.1%.	yes
12.6	Endocrine disrupting properties: Information on this property is not available.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0.1%.	yes
14.7	Marine pollutant: -	Marine pollutant: - (not hazardous to the aquatic environment)	yes
15.1		List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4): change in the listing (table)	yes
15.1		Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table)	yes
15.1		Hazardous Substance List (RI-RTK): change in the listing (table)	yes
15.1		National inventories: change in the listing (table)	yes

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 Sub- stances (permissible exposure limits)
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH®	American Conference of Governmental Industrial Hygienists
ACGIH® 2023	From ACGIH®, 2023 TLVs® and BEIs® Book. Copyright 2023. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presenta-tions/tlv-bei-position-statement
Acute Tox.	Acute toxicity
ATE	Acute Toxicity Estimate
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
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
DOT	Department of Transportation (USA)
ED	Endocrine disruptor
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
ΙΑΤΑ	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
Muta.	Germ cell mutagenicity
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
Skin Sens.	Skin sensitization
STEL	Short-term exposure limit



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Abbr.	Descriptions of used abbreviations
STOT RE	Specific target organ toxicity - repeated exposure
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.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.

Disclaimer

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