Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

POR-15 TOP COAT RED OXIDE PRIMER

Version number: GHS 4.0
Replaces version of: 2023-08-30 (GHS 3)

Revision: 2024-02-15

1 Identification

1.1 Product identifier

Trade name	**POR-15 TOP COAT RED OXIDE PRIMER**
Product code(s)	46701, 46704, 46705, 46755

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

Relevant identified uses	Paint

1.3 Details of the supplier of the safety data sheet

P.O.R. Products
38 Portman Road
New Rochelle NY 10801
United States

Telephone: +1 914-636-0700
e-mail: support@porproducts.com
Website: www.porproducts.com

e-mail (competent person)	support@porproducts.com

1.4 Emergency telephone number

Emergency information service	1-800-255-3924 ChemTel Inc.

2 Hazard identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.6	flammable liquid	3	Flam. Liq. 3	H226
3.1I	acute toxicity (inhal.)	4	Acute Tox. 4	H332
3.4S	skin sensitization	1	Skin Sens. 1	H317
3.5	germ cell mutagenicity	1B	Muta. 1B	H340
3.6	carcinogenicity	1A	Carc. 1A	H350
3.7	reproductive toxicity	2	Repr. 2	H361f
3.9	specific target organ toxicity - repeated exposure	1	STOT RE 1	H372
3.10	aspiration hazard	1	Asp. Tox. 1	H304

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

Labeling

- Signal word danger

- Pictograms

GHS02, GHS07, GHS08 

- Hazard statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H340	May cause genetic defects.
H350	May cause cancer.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.

- Precautionary statements

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352	IF ON SKIN: Wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P331	Do NOT induce vomiting.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling stoddard solvent, octamethylcyclotetrasiloxane, 2-butanone oxime, Solvent naphtha (petroleum), light arom.

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0.1%.

Endocrine disrupting properties

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

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
stoddard solvent	CAS No 8052-41-3	10 – < 30	Flam. Liq. 3 / H226 Acute Tox. 3 / H331 Muta. 1B / H340 Carc. 1A / H350 STOT RE 1 / H372 Asp. Tox. 1 / H304
octamethylcyclotetrasiloxane	CAS No 556-67-2	10 – < 30	Repr. 2 / H361f
Solvent naphtha (petroleum), light arom.	CAS No 64742-95-6	1 – < 5	Flam. Liq. 1 / H224 Muta. 1B / H340 Carc. 1A / H350 Asp. Tox. 1 / H304
Titanium dioxide (excluding nano-particle)	CAS No 13463-67-7	0.1 – < 1	Carc. 2 / H351
Distillates (petroleum), hydro-treated light	CAS No 64742-47-8	0.1 – < 1	Flam. Liq. 3 / H226 Acute Tox. 3 / H331 Asp. Tox. 1 / H304
2-butanone oxime	CAS No 96-29-7	0.1 – < 1	Flam. Liq. 4 / H227 Acute Tox. 3 / H301 Acute Tox. 4 / H312 Acute Tox. 3 / H331 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1 / H317 Carc. 1B / H350 STOT SE 1 / H370 STOT SE 3 / H336 STOT RE 2 / H373
naphtha (petroleum), hydrodesul-phurized heavy	CAS No 64742-82-1	< 0.1	Flam. Liq. 1 / H224 Muta. 1B / H340 Carc. 1A / H350 STOT RE 1 / H372 Asp. Tox. 1 / H304
solvent naphtha (petroleum), medi-um aliph.	CAS No 64742-88-7	< 0.1	Flam. Liq. 3 / H226 Acute Tox. 3 / H331 STOT RE 1 / H372 Asp. Tox. 1 / H304

Name of substance	Identifier	Wt%	Classification acc. to GHS
benzene	CAS No 71-43-2	< 0.1	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Muta. 1B / H340 Carc. 1A / H350 STOT RE 1 / H372 Asp. Tox. 1 / H304
toluene	CAS No 108-88-3	< 0.1	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 Repr. 2 / H361d STOT SE 3 / H336 STOT RE 2 / H373 Asp. Tox. 1 / H304
xylene-part	CAS No 1330-20-7	< 0.1	Flam. Liq. 3 / H226 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Asp. Tox. 1 / H304

Remarks

For full text of abbreviations: see SECTION 16

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. 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

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

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

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.

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. If substance has entered a water course or sewer, inform the responsible authority.

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.

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

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted. 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.

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/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
CA	toluene	108-88-3	OEL (BC)	20							"BC Regulation"

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
CA	toluene	108-88-3	OEL (ON-MoL)	20							MoL
CA	toluene	108-88-3	PEV/VEA	20							Regulation OHS
CA	toluene (toluol)	108-88-3	OEL (AB)	50	188					H	OHS Code
CA	xylene	1330-20-7	OEL (AB)	100	434	150	651				OHS Code
CA	xylene	1330-20-7	OEL (BC)	100		150					"BC Regulation"
CA	xylene	1330-20-7	OEL (ON-MoL)	100		150					MoL
CA	xylene	1330-20-7	PEV/VEA	100	434	150	651				Regulation OHS
CA	titanium dioxide	13463-67-7	OEL (AB)		10						OHS Code
CA	titanium dioxide	13463-67-7	OEL (ON-MoL)		10						MoL
CA	titanium dioxide	13463-67-7	OEL (BC)		10					dust	"BC Regulation"
CA	titanium dioxide	13463-67-7	PEV/VEA		10					dust, noAsb_less1Sil	Regulation OHS
CA	titanium dioxide	13463-67-7	OEL (BC)		3					r	"BC Regulation"
CA	benzene	71-43-2	OEL (AB)	0.5	1.6	2.5	8			H	OHS Code
CA	benzene	71-43-2	OEL (BC)	0.5		2.5				H	"BC Regulation"
CA	benzene	71-43-2	OEL (ON)	0.5		2.5				H	Regulation 833
CA	benzene	71-43-2	OEL (ON-MoL)	0.5		2.5				H	MoL
CA	benzene	71-43-2	PEV/VEA	0.5		2.5				H	Regulation OHS
CA	stoddard solvent	8052-41-3	OEL (AB)	100	572						OHS Code

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
CA	stoddard solvent	8052-41-3	OEL (ON-MoL)	100							MoL
CA	stoddard solvent	8052-41-3	PEV/VEA	100	525						Regulation OHS
CA	Stoddard solvent (mineral spirits)	8052-41-3	OEL (BC)		290		580				"BC Regulation"

Notation

Ceiling-C	ceiling value is a limit value above which exposure should not occur
dust	as dust
H	absorbed through the skin
noAsb_less1Sil	contains no asbestos and less than 1% free crystalline silica
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

Relevant DNELs of components

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
stoddard solvent	8052-41-3	DNEL	44 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
stoddard solvent	8052-41-3	DNEL	55 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
stoddard solvent	8052-41-3	DNEL	44 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
stoddard solvent	8052-41-3	DNEL	55 mg/m³	human, inhalatory	worker (industry)	acute - local effects
stoddard solvent	8052-41-3	DNEL	80 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
stoddard solvent	8052-41-3	DNEL	30 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
octamethylcyclotetrasiloxane	556-67-2	DNEL	73 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
octamethylcyclotetrasiloxane	556-67-2	DNEL	73 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
2-butanone oxime	96-29-7	DNEL	9 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
2-butanone oxime	96-29-7	DNEL	3.33 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
2-butanone oxime	96-29-7	DNEL	1.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-butanone oxime	96-29-7	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects

Relevant DNELs of components

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
xylene-part	1330-20-7	DNEL	221 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
xylene-part	1330-20-7	DNEL	442 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
xylene-part	1330-20-7	DNEL	221 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
xylene-part	1330-20-7	DNEL	442 mg/m³	human, inhalatory	worker (industry)	acute - local effects
xylene-part	1330-20-7	DNEL	212 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
toluene	108-88-3	DNEL	192 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
toluene	108-88-3	DNEL	384 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
toluene	108-88-3	DNEL	192 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
toluene	108-88-3	DNEL	384 mg/m³	human, inhalatory	worker (industry)	acute - local effects
toluene	108-88-3	DNEL	384 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
stoddard solvent	8052-41-3	PNEC	0.14 mg/l	aquatic organisms	freshwater	short-term (single instance)
stoddard solvent	8052-41-3	PNEC	0.35 mg/l	aquatic organisms	marine water	short-term (single instance)
stoddard solvent	8052-41-3	PNEC	1.14 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
stoddard solvent	8052-41-3	PNEC	0.14 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	1.5 µg/l	aquatic organisms	freshwater	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	0.15 µg/l	aquatic organisms	marine water	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	3 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	0.3 mg/kg	aquatic organisms	marine sediment	short-term (single instance)

Relevant PNECs of components

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
octamethylcyclotetrasiloxane	556-67-2	PNEC	0.54 $^{mg}/_{kg}$	terrestrial organisms	soil	short-term (single instance)
2-butanone oxime	96-29-7	PNEC	0.256 $^{mg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)
2-butanone oxime	96-29-7	PNEC	177 $^{mg}/_{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
xylene-part	1330-20-7	PNEC	0.327 $^{mg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)
xylene-part	1330-20-7	PNEC	0.327 $^{mg}/_{l}$	aquatic organisms	marine water	short-term (single instance)
xylene-part	1330-20-7	PNEC	6.58 $^{mg}/_{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
xylene-part	1330-20-7	PNEC	12.46 $^{mg}/_{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
xylene-part	1330-20-7	PNEC	12.46 $^{mg}/_{kg}$	aquatic organisms	marine sediment	short-term (single instance)
xylene-part	1330-20-7	PNEC	2.31 $^{mg}/_{kg}$	terrestrial organisms	soil	short-term (single instance)
toluene	108-88-3	PNEC	0.68 $^{mg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)
toluene	108-88-3	PNEC	0.68 $^{mg}/_{l}$	aquatic organisms	marine water	short-term (single instance)
toluene	108-88-3	PNEC	13.61 $^{mg}/_{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
toluene	108-88-3	PNEC	16.39 $^{mg}/_{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
toluene	108-88-3	PNEC	16.39 $^{mg}/_{kg}$	aquatic organisms	marine sediment	short-term (single instance)
toluene	108-88-3	PNEC	2.89 $^{mg}/_{kg}$	terrestrial organisms	soil	short-term (single instance)
benzene	71-43-2	PNEC	1.9 $^{mg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)
benzene	71-43-2	PNEC	1.9 $^{mg}/_{l}$	aquatic organisms	marine water	short-term (single instance)
benzene	71-43-2	PNEC	39 $^{mg}/_{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
benzene	71-43-2	PNEC	33 $^{mg}/_{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
benzene	71-43-2	PNEC	33 $^{mg}/_{kg}$	aquatic organisms	marine sediment	short-term (single instance)

Relevant PNECs of components						
Name of substance	**CAS No**	**Endpoint**	**Threshold level**	**Organism**	**Environmental compartment**	**Exposure time**
benzene	71-43-2	PNEC	4.8 $^{mg}/_{kg}$	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.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Color	not determined
Odor	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	≥-20 °C at 101.3 kPa
Flammability	flammable liquid in accordance with GHS criteria
Lower and upper explosion limit	1.4 vol% - 7.6 vol%

Flash point	41.7 °C
Auto-ignition temperature	232 °C (auto-ignition temperature (liquids and gases))
Decomposition temperature	not relevant
pH (value)	not determined
Kinematic viscosity	not determined
Solubility(ies)	not determined

Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available

Vapor pressure	≤240 kPa at 37.8 °C

Density and/or relative density

Density	not determined
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)

9.2 Other information

Information with regard to physical hazard classes	there is no additional information

Other safety characteristics

Solid content	1.164 %

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.

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 GHS

Acute toxicity

Harmful if inhaled.

- Acute toxicity estimate (ATE)

Inhalation: vapour >19.29 $^{mg}/_{l}$/4h

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
stoddard solvent	8052-41-3	inhalation: vapour	>5.5 $^{mg}/_{l}$/4h
Distillates (petroleum), hydro-treated light	64742-47-8	inhalation: vapour	>5.28 $^{mg}/_{l}$/4h
2-butanone oxime	96-29-7	dermal	>1,000 $^{mg}/_{kg}$
2-butanone oxime	96-29-7	inhalation: vapour	>4.83 $^{mg}/_{l}$/4h
solvent naphtha (petroleum), medium aliph.	64742-88-7	inhalation: vapour	>5.28 $^{mg}/_{l}$/4h
xylene-part	1330-20-7	dermal	1,100 $^{mg}/_{kg}$
xylene-part	1330-20-7	inhalation: vapour	11 $^{mg}/_{l}$/4h

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

May cause genetic defects.

Carcinogenicity

May cause cancer.

Reproductive toxicity

Suspected of damaging fertility.

Specific target organ toxicity - single exposure

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

Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways.

12 Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
stoddard solvent	8052-41-3	LC50	0.18 $^{mg}/_{l}$	fish	96 h
stoddard solvent	8052-41-3	LL50	41.4 $^{mg}/_{l}$	fish	96 h
stoddard solvent	8052-41-3	EL50	2.5 $^{mg}/_{l}$	algae	96 h
stoddard solvent	8052-41-3	EC50	0.58 $^{mg}/_{l}$	algae	96 h
octamethylcyclotet-rasiloxane	556-67-2	LC50	>22 $^{µg}/_{l}$	fish	96 h
octamethylcyclotet-rasiloxane	556-67-2	EC50	>15 $^{µg}/_{l}$	aquatic invertebrates	48 h
octamethylcyclotet-rasiloxane	556-67-2	ErC50	>22 $^{µg}/_{l}$	algae	96 h
Solvent naphtha (petro-leum), light arom.	64742-95-6	LL50	8.2 $^{mg}/_{l}$	fish	96 h
Solvent naphtha (petro-leum), light arom.	64742-95-6	EL50	4.5 $^{mg}/_{l}$	aquatic invertebrates	48 h
Distillates (petroleum), hydro-treated light	64742-47-8	LL50	5 $^{mg}/_{l}$	fish	96 h

Aquatic toxicity (acute) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Distillates (petroleum), hydro-treated light	64742-47-8	EL50	1.4 mg/l	aquatic invertebrates	48 h
2-butanone oxime	96-29-7	LC50	>100 mg/l	fish	96 h
2-butanone oxime	96-29-7	EC50	201 mg/l	aquatic invertebrates	48 h
2-butanone oxime	96-29-7	ErC50	11.8 mg/l	algae	72 h
naphtha (petroleum), hydrodesulphurized heavy	64742-82-1	LL50	8.2 mg/l	fish	96 h
naphtha (petroleum), hydrodesulphurized heavy	64742-82-1	EL50	4.5 mg/l	aquatic invertebrates	48 h
solvent naphtha (petroleum), medium aliph.	64742-88-7	LL50	5 mg/l	fish	96 h
solvent naphtha (petroleum), medium aliph.	64742-88-7	EL50	1.4 mg/l	aquatic invertebrates	48 h
xylene-part	1330-20-7	LC50	8.4 mg/l	fish	96 h
xylene-part	1330-20-7	EC50	4.9 mg/l	algae	72 h
xylene-part	1330-20-7	ErC50	4.7 mg/l	algae	72 h
toluene	108-88-3	LC50	5.5 mg/l	fish	96 h
toluene	108-88-3	EC50	84 mg/l	microorganisms	24 h
benzene	71-43-2	LC50	5.3 mg/l	fish	96 h
benzene	71-43-2	EC50	10 mg/l	aquatic invertebrates	24 h
benzene	71-43-2	ErC50	100 mg/l	algae	72 h

Aquatic toxicity (chronic) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
stoddard solvent	8052-41-3	EL50	1.19 mg/l	aquatic invertebrates	21 d
stoddard solvent	8052-41-3	EC50	0.33 mg/l	aquatic invertebrates	21 d
octamethylcyclotetrasiloxane	556-67-2	LC50	10 µg/l	fish	14 d
octamethylcyclotetrasiloxane	556-67-2	EC50	>15 µg/l	aquatic invertebrates	21 d
Solvent naphtha (petroleum), light arom.	64742-95-6	EL50	10 mg/l	fish	21 d
Solvent naphtha (petroleum), light arom.	64742-95-6	EC50	15.41 mg/l	microorganisms	40 h

Aquatic toxicity (chronic) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Distillates (petroleum), hydro-treated light	64742-47-8	EL50	0.89 $^{mg}/_{l}$	aquatic invertebrates	21 d
2-butanone oxime	96-29-7	EC50	≥100 $^{mg}/_{l}$	aquatic invertebrates	21 d
naphtha (petroleum), hydrodesulphurized heavy	64742-82-1	EL50	10 $^{mg}/_{l}$	fish	21 d
naphtha (petroleum), hydrodesulphurized heavy	64742-82-1	EC50	15.41 $^{mg}/_{l}$	microorganisms	40 h
solvent naphtha (petroleum), medium aliph.	64742-88-7	EL50	0.89 $^{mg}/_{l}$	aquatic invertebrates	21 d
xylene-part	1330-20-7	EL50	2.9 $^{mg}/_{l}$	aquatic invertebrates	21 d
xylene-part	1330-20-7	ErC50	4.36 $^{mg}/_{l}$	algae	73 h
xylene-part	1330-20-7	EC50	2.2 $^{mg}/_{l}$	algae	73 h
toluene	108-88-3	LC50	3.78 $^{mg}/_{l}$	aquatic invertebrates	2 d
toluene	108-88-3	EC50	3.23 $^{mg}/_{l}$	aquatic invertebrates	7 d

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 ≥ 0.1%.

12.6 Endocrine disrupting properties

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

12.7 Other adverse effects

Data are not available.

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 the Dangerous Goods Regulations) 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.

14 Transport information

14.1 UN number

UN RTDG	UN 1263
IMDG-Code	UN 1263
ICAO-TI	UN 1263

14.2 UN proper shipping name

UN RTDG	PAINT
IMDG-Code	PAINT
ICAO-TI	Paint

14.3 Transport hazard class(es)

UN RTDG	3
IMDG-Code	3
ICAO-TI	3

14.4 Packing group

UN RTDG	III
IMDG-Code	III
ICAO-TI	III

14.5 Environmental hazards hazardous to the aquatic environment

Environmentally hazardous substance (aquatic environment) stoddard solvent

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 information - National regulations - Additional information (UN RTDG)

UN number	1263
Class	3
Environmental hazards	yes (hazardous to the aquatic environment)
Packing group	III
Danger label(s)	3, fish and tree

Special provisions (SP)	163, 223, 367 (UN RTDG)
Excepted quantities (EQ)	E1 (UN RTDG)
Limited quantities (LQ)	5 L (UN RTDG)

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant	yes (hazardous to the aquatic environment)
Danger label(s)	3, fish and tree

Special provisions (SP)	163, 223, 367, 955
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-E, S-E
Stowage category	A

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

Environmental hazards	yes (hazardous to the aquatic environment)
Danger label(s)	3

Special provisions (SP)	A3, A72, A192
Excepted quantities (EQ)	E1
Limited quantities (LQ)	10 L

15 Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA) not all ingredients are listed (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
benzene	71-43-2		1986-12-31
toluene	108-88-3		1986-12-31
xylene-part	1330-20-7		1986-12-31

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)
benzene	71-43-2	a	1 2 3 4	10 (4,54)
toluene	108-88-3		1 2 3 4	1000 (454)
xylene-part	1330-20-7		1 3 4	100 (45,4)

Legend

1	"1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act
2	"2" indicates that the source is section 307(a) of the Clean Water Act
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)
a	Benzene was already a CERCLA hazardous substance prior to the CAA Amendments of 1990 and received an adjusted 10-pound RQ based on potential carcinogenicity in an August 14, 1989, final rule (54 FR 33418). The CAA Amendments specify that “benzene (including benzene from gasoline)” is a hazardous air pollutant and, thus, a CERCLA hazardous substance.

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

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

Name of substance	CAS No	Functionality	Authoritative Lists
stoddard solvent	8052-41-3		ATSDR Neurotoxicants EC Annex VI CMRs - Cat. 1B
octamethylcyclotetrasiloxane	556-67-2		Canada PBiTs CECBP - Priority Chemicals EC PBTs
Solvent naphtha (petroleum), light arom.	64742-95-6		EC Annex VI CMRs - Cat. 1B
Titanium dioxide (excluding nanoparticle)	13463-67-7		IARC Carcinogens - 2B Prop 65
2-butanone oxime	96-29-7		EC Annex VI CMRs - Cat. 1B
naphtha (petroleum), hydrodesulphurized heavy	64742-82-1		Canada PBiTs EC Annex VI CMRs - Cat. 1B
benzene	71-43-2		ATSDR Neurotoxicants CA MCLs CA TACs CDC 4th National Exposure Report CWA 303(c) EC Annex VI CMRs - Cat. 1A EC Annex VI CMRs - Cat. 1B IARC Carcinogens - 1 IRIS Carcinogens - A NTP 13th RoC - known OEHHA RELs Prop 65
toluene	108-88-3		ATSDR Neurotoxicants CA MCLs CA TACs CDC 4th National Exposure Report CWA 303(c) IRIS Neurotoxicants OEHHA RELs Prop 65
xylene-part	1330-20-7		ATSDR Neurotoxicants CA MCLs CA TACs CDC 4th National Exposure Report IRIS Neurotoxicants 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
benzene	71-43-2				1.0 %
toluene	108-88-3				1.0 %
xylene-part	1330-20-7				1.0 %

- Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
stoddard solvent	8052-41-3	A, N, O	

Legend

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

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
Titanium dioxide (excluding nanoparticle)	13463-67-7		
naphtha (petroleum), hydrodesulphurized heavy	8052-41-3		F2
benzene	71-43-2		CA MU F3
stoddard solvent	8052-41-3		F2
toluene	108-88-3		TE F3
xylene-part	1330-20-7		F3

Legend

CA Carcinogenic
F2 Flammable - Second Degree
F3 Flammable - Third Degree
MU Mutagenic
TE Teratogenic

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

Name acc. to inventory	CAS No	Classification
STODDARD SOLVENT	8052-41-3	

- Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
Titanium dioxide (excluding nanoparticle)	13463-67-7	T
naphtha (petroleum), hydrodesulphurized heavy	8052-41-3	T
benzene	71-43-2	T, F, C
stoddard solvent	8052-41-3	T
toluene	108-88-3	T, F

Name of substance	CAS No	References
toluene	108-88-3	T, F
toluene	108-88-3	T, F
xylene-part	1330-20-7	T, F
xylene-part	1330-20-7	T, F
xylene-part	1330-20-7	T, F

Legend

C	Carcinogenicity (IARC)
F	Flammability (NFPA®)
T	Toxicity (ACGIH®)

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
titanium dioxide	13463-67-7	airborne, unbound particles of respirable size	cancer
benzene	71-43-2		cancer
benzene	71-43-2		developmental, male
toluene	108-88-3		developmental

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	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
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	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
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 regulations (Canada)

Domestic Substances List (DSL)/Non-domestic Substances List (NDSL)

All ingredients are listed or exempt from listing.

15.2 Chemical Safety Assessment

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

16 Other information

Key literature references and sources for data

Hazardous Products Regulations (HPR)
SOR/2022-272: Regulations Amending the Hazardous Products Regulations (GHS, Seventh Revised Edition)

UN Recommendations on the Transport of Dangerous Good. 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).

Disclaimer

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