Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

POR-15 SELF ETCHING PRIMER

Version number: GHS 1.0 Date of compilation: 2025-08-15

SECTION 1: Identification

1.1 Product identifier

Trade name **POR-15 SELF ETCHING PRIMER**

Product code(s) 41018

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

Relevant identified uses General use

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.

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
A.5	germ cell mutagenicity	1B	Muta. 1B	H340
A.6	carcinogenicity	1A	Carc. 1A	H350
A.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336
B.3	flammable aerosol	1	Flam. Aerosol 1	H222
B.5	gases under pressure	C	Press. Gas C	H280

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects
Contains gas under pressure; may explode if heated.

2.2 Label elements

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

- Signal word danger

- Pictograms

GHS02, GHS04, GHS07, GHS08

- Hazard statements

H222	Extremely flammable aerosol.
H280	Contains gas under pressure; may explode if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.

- Precautionary statements

P201	Obtain special instructions before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear eye protection/face protection.
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a poison center/doctor if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling — n-butane, acetone, methyl ethyl ketone, isopropyl alcohol

2.3 Other hazards

Hazards not otherwise classified

Repeated exposure may cause skin dryness or cracking.

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%.

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
acetone	CAS No 67-64-1	10 – < 25	Eye Irrit. 2 / H319 STOT SE 3 / H336 Flam. Liq. 2 / H225
methyl ethyl ketone	CAS No 78-93-3	10 – < 25	Eye Irrit. 2 / H319 STOT SE 3 / H336 Flam. Liq. 2 / H225
isobutyl acetate	CAS No 110-19-0	10 – < 25	STOT SE 3 / H336 Flam. Liq. 2 / H225
isopropyl alcohol	CAS No 67-63-0	10 – < 25	Eye Irrit. 2 / H319 STOT SE 3 / H336 Flam. Liq. 2 / H225
n-butane	CAS No 106-97-8	10 – < 25	Muta. 1B / H340 Carc. 1A / H350 Flam. Gas 1A / H220 Press. Gas L / H280
Titanium dioxide (excluding nano-particle)	CAS No 13463-67-7	5 – < 10	Carc. 2 / H351 cD / OSHA003
zinc stearate	CAS No 557-05-1	5 – < 10	
glycol ether EP	CAS No 2807-30-9	1 – < 5	Acute Tox. 4 / H312 Eye Irrit. 2 / H319 Flam. Liq. 3 / H226
mineral spirits	CAS No 64742-47-8	1 – < 5	Acute Tox. 3 / H331 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226
PM acetate	CAS No 108-65-6	1 – < 5	STOT SE 3 / H336 Flam. Liq. 3 / H226

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.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Thaw frosted parts with lukewarm water. Do not rub affected area.

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

Narcotic effects.

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

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. Contact with the product can cause burns and/or frostbite. Contains gas under pressure; may explode if heated.

Hazardous combustion products

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.

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

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. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

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

- Flammability hazards

Do not spray on an open flame or other ignition source. Protect from sunlight.

- 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.

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/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
US	butane	106-97-8	PEL (CA)	800	1,900						Cal/OSHA PEL
US	butane	106-97-8	TLV®			1,000				E	ACGIH® 2022
US	n-butane	106-97-8	REL	800 (10 h)	1,900 (10 h)						NIOSH REL
US	propylene glycol monomethyl ether acetate	108-65-6	PEL (CA)	100	541	150	811			H	Cal/OSHA PEL
US	titanium dioxide	13463-67-7	PEL		15					dust	29 CFR 1910.1000
US	titanium dioxide	13463-67-7	REL							lowest, appx-A	NIOSH REL
US	titanium dioxide	13463-67-7	TLV®		2.5					r, fine	ACGIH® 2022
US	titanium dioxide	13463-67-7	TLV®		0.2					r, nano	ACGIH® 2022
US	zinc distearate	557-05-1	TLV®		10					CA-3, i	ACGIH® 2022
US	zinc distearate	557-05-1	TLV®		3					CA-3, r	ACGIH® 2022
US	zinc stearate	557-05-1	PEL (CA)		10						Cal/OSHA PEL
US	zinc stearate	557-05-1	REL		10 (10 h)						NIOSH REL
US	zinc stearate	557-05-1	PEL		15					dust	29 CFR 1910.1000

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
US	zinc stearate	557-05-1	REL		5 (10 h)					r	NIOSH REL
US	zinc stearate	557-05-1	PEL		5					r	29 CFR 1910.1000
US	2-propanol	67-63-0	TLV®	200		400					ACGIH® 2022
US	isopropyl alcohol	67-63-0	PEL (CA)	400	980	500	1,225				Cal/OSHA PEL
US	isopropyl alcohol	67-63-0	REL	400 (10 h)	980 (10 h)	500	1,225				NIOSH REL
US	isopropyl alcohol	67-63-0	PEL	400	980						29 CFR 1910.1000
US	acetone	67-64-1	PEL (CA)	500	1,200	750	1,780	3,000			Cal/OSHA PEL
US	acetone	67-64-1	REL	250 (10 h)	590 (10 h)						NIOSH REL
US	acetone	67-64-1	TLV®	250		500					ACGIH® 2022
US	acetone	67-64-1	PEL	1,000	2,400						29 CFR 1910.1000
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 1910.1000
US	methyl ethyl ketone	78-93-3	TLV®	200		300					ACGIH® 2022
US	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)
CA-3	does not include stearates of toxic metals
Ceiling-C	ceiling value is a limit value above which exposure should not occur
dust	as dust
E	explosive
fine	fineparticle
H	absorbed through the skin
i	inhalable fraction
lowest	exposure by all routes should be carefully controlled to levels as low as possible
nano	nanoparticle
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)

Notation

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
US	2-propanol	acetone		BEI®	40 mg/l	ACGIH® 2022
US	acetone	acetone		BEI®	25 mg/l	ACGIH® 2022
US	methyl ethyl ketone	methyl ethyl ketone		BEI®	2 mg/l	ACGIH® 2022

Relevant DNELs of components

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
acetone	67-64-1	DNEL	1,210 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
acetone	67-64-1	DNEL	2,420 mg/m³	human, inhalatory	worker (industry)	acute - local effects
acetone	67-64-1	DNEL	186 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
methyl ethyl ketone	78-93-3	DNEL	600 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
methyl ethyl ketone	78-93-3	DNEL	1,161 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
isobutyl acetate	110-19-0	DNEL	300 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
isobutyl acetate	110-19-0	DNEL	600 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
isobutyl acetate	110-19-0	DNEL	300 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
isobutyl acetate	110-19-0	DNEL	600 mg/m³	human, inhalatory	worker (industry)	acute - local effects
isobutyl acetate	110-19-0	DNEL	10 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
isobutyl acetate	110-19-0	DNEL	10 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
isopropyl alcohol	67-63-0	DNEL	500 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
isopropyl alcohol	67-63-0	DNEL	888 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
zinc stearate	557-05-1	DNEL	16.4 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
zinc stearate	557-05-1	DNEL	4.67 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
glycol ether EP	2807-30-9	DNEL	36 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
glycol ether EP	2807-30-9	DNEL	3.4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
PM acetate	108-65-6	DNEL	275 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects

Relevant DNELs of components

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
PM acetate	108-65-6	DNEL	550 mg/m³	human, inhalatory	worker (industry)	acute - local effects
PM acetate	108-65-6	DNEL	796 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
acetone	67-64-1	PNEC	10.6 mg/l	aquatic organisms	freshwater	short-term (single instance)
acetone	67-64-1	PNEC	1.06 mg/l	aquatic organisms	marine water	short-term (single instance)
acetone	67-64-1	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
acetone	67-64-1	PNEC	30.4 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
acetone	67-64-1	PNEC	3.04 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
acetone	67-64-1	PNEC	29.5 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)
methyl ethyl ketone	78-93-3	PNEC	284.7 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
methyl ethyl ketone	78-93-3	PNEC	22.5 mg/kg	terrestrial organisms	soil	short-term (single instance)
isobutyl acetate	110-19-0	PNEC	0.17 mg/l	aquatic organisms	freshwater	short-term (single instance)
isobutyl acetate	110-19-0	PNEC	0.017 mg/l	aquatic organisms	marine water	short-term (single instance)
isobutyl acetate	110-19-0	PNEC	200 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
isobutyl acetate	110-19-0	PNEC	0.877 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
isobutyl acetate	110-19-0	PNEC	0.088 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
isobutyl acetate	110-19-0	PNEC	0.075 mg/kg	terrestrial organisms	soil	short-term (single instance)
isopropyl alcohol	67-63-0	PNEC	140.9 mg/l	aquatic organisms	freshwater	short-term (single in-

Relevant PNECs of components

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
						stance)
isopropyl alcohol	67-63-0	PNEC	140.9 mg/l	aquatic organisms	marine water	short-term (single instance)
isopropyl alcohol	67-63-0	PNEC	2,251 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
isopropyl alcohol	67-63-0	PNEC	552 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
isopropyl alcohol	67-63-0	PNEC	552 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
isopropyl alcohol	67-63-0	PNEC	28 mg/kg	terrestrial organisms	soil	short-term (single instance)
zinc stearate	557-05-1	PNEC	3.4 µg/l	aquatic organisms	freshwater	short-term (single instance)
zinc stearate	557-05-1	PNEC	0.34 µg/l	aquatic organisms	marine water	short-term (single instance)
zinc stearate	557-05-1	PNEC	0.526 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
zinc stearate	557-05-1	PNEC	52.6 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
zinc stearate	557-05-1	PNEC	0.103 mg/kg	terrestrial organisms	soil	short-term (single instance)
glycol ether EP	2807-30-9	PNEC	0.1 mg/l	aquatic organisms	freshwater	short-term (single instance)
glycol ether EP	2807-30-9	PNEC	0.01 mg/l	aquatic organisms	marine water	short-term (single instance)
glycol ether EP	2807-30-9	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
glycol ether EP	2807-30-9	PNEC	0.594 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
glycol ether EP	2807-30-9	PNEC	0.059 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
glycol ether EP	2807-30-9	PNEC	0.06 mg/kg	terrestrial organisms	soil	short-term (single instance)
PM acetate	108-65-6	PNEC	0.635 mg/l	aquatic organisms	freshwater	short-term (single instance)
PM acetate	108-65-6	PNEC	0.064 mg/l	aquatic organisms	marine water	short-term (single instance)
PM acetate	108-65-6	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
PM acetate	108-65-6	PNEC	3.29 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
PM acetate	108-65-6	PNEC	0.329 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
PM acetate	108-65-6	PNEC	0.29 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 protective 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

During spraying wear suitable respiratory equipment.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	aerosol (spray aerosol)
Color	not determined

Particle	not relevant (aerosol)

Odor	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	-161.5 °C at 1,013 hPa
Flash point	-88.6 °C at 1,013 hPa
Evaporation rate	Not determined
Flammability (solid, gas)	flammable aerosol in accordance with GHS criteria

Explosive limits

- Lower explosion limit (LEL)	1.5 vol%
- Upper explosion limit (UEL)	15 vol%

Vapor pressure	240 hPa at 20 °C
Density	not determined
Vapor density	this information is not available
Relative density	Information on this property is not available
Solubility(ies)	not determined

Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	220 °C (auto-ignition temperature (liquids and gases))
Viscosity	not relevant (aerosol)
Explosive properties	none
Oxidizing properties	none

9.2 VOC Content g/L

Propellant content	11 %

SECTION 10: Stability and reactivity

10.1 Reactivity

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

If heated:

Danger of explosion, Gas under pressure, Danger of bursting container

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. Keep away from heat.

Hints to prevent fire or explosion

Protect from sunlight.

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

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
methyl ethyl ketone	78-93-3	oral	2,054 $^{mg}/_{kg}$
zinc stearate	557-05-1	oral	>2,000 $^{mg}/_{kg}$
zinc stearate	557-05-1	dermal	>2,000 $^{mg}/_{kg}$
glycol ether EP	2807-30-9	oral	3,089 $^{mg}/_{kg}$
glycol ether EP	2807-30-9	dermal	1,100 $^{mg}/_{kg}$
mineral spirits	64742-47-8	dermal	>2,000 $^{mg}/_{kg}$
mineral spirits	64742-47-8	inhalation: vapor	>5.28 $^{mg}/_{l}$/4h
PM acetate	108-65-6	dermal	>2,000 $^{mg}/_{kg}$

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

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

May cause genetic defects.

Carcinogenicity

May cause cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of substance	CAS No	Classification	Number
isopropyl alcohol	67-63-0	3	
Titanium dioxide (excluding nanoparticle)	13463-67-7	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 drowsiness or dizziness.

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

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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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 1950
IMDG-Code	UN 1950
ICAO-TI	UN 1950

14.2 UN proper shipping name

DOT	Aerosols
IMDG-Code	AEROSOLS
ICAO-TI	Aerosols, flammable

14.3 Transport hazard class(es)

DOT	2.1
IMDG-Code	2.1
ICAO-TI	2.1

14.4 Packing group not assigned

14.5 Environmental hazards non-environmentally hazardous acc. to the dangerous goods regulations

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	UN1950, Aerosols, 2.1
Reportable quantity (RQ)	22,727 lbs (10,318 kg) (acetone) (methyl ethyl ketone)
Danger label(s)	2.1

Special provisions (SP)	N82
ERG No	126

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant	-
Danger label(s)	2.1

Special provisions (SP)	63, 190, 277, 327, 344, 381, 959
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
EmS	F-D, S-U
Stowage category	-

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

Danger label(s)	2.1

Special provisions (SP)	A145, A167
Excepted quantities (EQ)	E0

Limited quantities (LQ) 30 kg

SECTION 15: Regulatory information

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

National regulations (United States)

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**
isopropyl alcohol	67-63-0	only persons who manufacture by the strong acid process are subject, supplier notification not required	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)
acetone	67-64-1		4	5000 (2270)
methyl ethyl ketone	78-93-3		3 4	5000 (2270)

Legend

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

Name of substance	CAS No	Type of registration	Basis for listing	Threshold quantity (lbs)
n-butane	106-97-8	Flammable substance	f	10000

Legend

f Flammable gas.

Right to Know Hazardous Substance List

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

Name of substance	CAS No	Functionality	Authoritative Lists
acetone	67-64-1		ATSDR Neurotoxicants
methyl ethyl ketone	78-93-3		CA TACs OEHHA RELs
isopropyl alcohol	67-63-0		OEHHA RELs

Name of substance	CAS No	Functionality	Authoritative Lists
n-butane	106-97-8		EC Annex VI CMRs - Cat. 1A EC Annex VI CMRs - Cat. 1B
Titanium dioxide (excluding nanoparticle)	13463-67-7		IARC Carcinogens - 2B Prop 65
glycol ether EP			CA TACs

- Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
acetone	67-64-1				1.0 %
methyl ethyl ketone	78-93-3				1.0 %
isopropyl alcohol	67-63-0				1.0 %
zinc stearate		1039			1.0 %
glycol ether EP		1022			1.0 %

- Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
acetone	67-64-1	A, N, O	
methyl ethyl ketone	78-93-3	A, N, O	
isopropyl alcohol	67-63-0	A, N, O	
Titanium dioxide (excluding nanoparticle)	13463-67-7	A	
n-butane		N	
zinc stearate	557-05-1	A	

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
acetone	67-64-1		F3
methyl ethyl ketone	78-93-3		F3
isopropyl alcohol	67-63-0		F3
Titanium dioxide (excluding nanoparticle)	13463-67-7		
n-butane	106-97-8		F4
zinc stearate	557-05-1		F2

Name of substance	CAS No	Remarks	Classifications
glycol ether EP			

Legend

F2 Flammable - Second Degree
F3 Flammable - Third Degree
F4 Flammable - Fourth Degree

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

Name acc. to inventory	CAS No	Classification
2-PROPANONE	67-64-1	E
2-BUTANONE	78-93-3	E
2-PROPANOL	67-63-0	E
TITANIUM OXIDE (TIO2)	13463-67-7	
BUTANE	106-97-8	
OCTADECANOIC ACID, ZINC SALT	557-05-1	E
GLYCOL ETHERS		E

Legend

E Environmental hazard

- Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
acetone	67-64-1	T, F
methyl ethyl ketone	78-93-3	T, F
isopropyl alcohol	67-63-0	T, F
Titanium dioxide (excluding nanoparticle)	13463-67-7	T
n-butane	106-97-8	T, F
zinc stearate	557-05-1	T

Legend

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

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	4	material that rapidly or completely vaporizes at atmospheric pressure and normal ambient temperature or that is readily dispersed in air and burn readily
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	4	material that rapidly or completely vaporizes at atmospheric pressure and normal ambient temperature or that is readily dispersed in air and burn readily
Health	0	material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

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

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).

Disclaimer

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