Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

TOP COAT CHASSI BLACK AEROSOL

Version number: GHS 1.0 Date of compilation: 2024-02-20

SECTION 1: Identification

1.1 Product identifier

Trade name **TOP COAT CHASSI BLACK AEROSOL**

Product code(s) 45918

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, VM&P Naptha, Carbon black

2.3 Other hazards

Hazards not otherwise classified

Repeated exposure may cause skin dryness or cracking.
Harmful to aquatic life with long lasting effects (GHS category 3: aquatic toxicity - acute and/or chronic).

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	
n-butane	CAS No 106-97-8	10 – < 25	Muta. 1B / H340 Carc. 1A / H350 Flam. Gas 1 / H220 Press. Gas L / H280
VM&P Naptha	CAS No 64742-89-8	5 – < 10	Muta. 1B / H340 Carc. 1A / H350 Asp. Tox. 1 / H304 Flam. Liq. 1 / H224
ethanol	CAS No 64-17-5	1 – < 5	Eye Irrit. 2A / H319 Flam. Liq. 2 / H225
isopropyl alcohol	CAS No 67-63-0	1 – < 5	Eye Irrit. 2 / H319 STOT SE 3 / H336 Flam. Liq. 2 / H225
n-butyl acetate	CAS No 123-86-4	1 – < 5	STOT SE 3 / H336 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
Carbon black	CAS No 1333-86-4	1 – < 5	Carc. 1A / H350
talc	CAS No 14807-96-6	1 – < 5	Acute Tox. 4 / H332 Carc. 2 / H351
methyl alcohol	CAS No 67-56-1	0.1 – < 1	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 STOT SE 1 / H370 Flam. Liq. 2 / H225

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

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. 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

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. Use only in well-ventilated areas.

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	n-butane	106-97-8	REL	800 (10 h)	1,900 (10 h)						NIOSH REL
US	n-butane	106-97-8	TLV®			1,000				E	ACGIH® 2024
US	propylene glycol monomethyl ether acetate	108-65-6	PEL (CA)	100	541	150	811				Cal/OSHA PEL
US	n-butyl acetate	123-86-4	PEL (CA)	150	710	200	950				Cal/OSHA PEL
US	n-butyl acetate	123-86-4	REL	150 (10 h)	710 (10 h)	200	950				NIOSH REL
US	n-butyl acetate	123-86-4	TLV®	50		150					ACGIH® 2024
US	n-butyl acetate	123-86-4	PEL	150	710						29 CFR 1910.1000
US	carbon black	1333-86-4	PEL (CA)		3.5						Cal/OSHA PEL
US	carbon black	1333-86-4	PEL		3.5						29 CFR 1910.1000
US	carbon black	1333-86-4	REL		3.5 (10 h)					appx-A, appx-C	NIOSH REL
US	carbon black	1333-86-4	TLV®		3					i	ACGIH® 2024
US	Carbon black in presence of polycyclic aromatic hydrocarbons (PAHs)	1333-86-4	REL		0.1 (10 h)					PAHs, appx-A, appx-C	NIOSH REL
US	talc	14807-96-6	PEL (CA)	1						+asb, fib/cm³	Cal/OSHA PEL
US	talc	14807-96-6	TLV®		0.1					fib/cm³, +asb, CA-10	ACGIH® 2024

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	talc	14807-96-6	PEL		0.1		1 (30 min)			no_asb, fib/ml	29 CFR 1910.1000
US	talc	14807-96-6	PEL (CA)		2					no_asb, r, less1silica	Cal/OSHA PEL
US	talc	14807-96-6	PEL	706						partml, noAsb_less1Sil, r	29 CFR 1910.1000
US	talc	14807-96-6	REL		2 (10 h)					r, less1silica, no_asb	NIOSH REL
US	talc	14807-96-6	TLV®		2					r, noAsb_less1Sil	ACGIH® 2024
US	ethanol	64-17-5	TLV®			1,000					ACGIH® 2024
US	ethyl alcohol	64-17-5	REL	1,000 (10 h)	1,900 (10 h)						NIOSH REL
US	ethyl alcohol (ethanol)	64-17-5	PEL (CA)	1,000	1,900						Cal/OSHA PEL
US	ethyl alcohol (ethanol)	64-17-5	PEL	1,000	1,900						29 CFR 1910.1000
US	methanol	67-56-1	TLV®	200		250				H	ACGIH® 2024
US	methyl alcohol	67-56-1	REL	200 (10 h)	260 (10 h)	250	325				NIOSH REL
US	methyl alcohol	67-56-1	PEL	200	260						29 CFR 1910.1000
US	methyl alcohol (methanol)	67-56-1	PEL (CA)	200	260	250	325	1,000			Cal/OSHA PEL
US	2-propanol	67-63-0	TLV®	200		400					ACGIH® 2024
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

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	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® 2024
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®	75		150				H	ACGIH® 2024
US	methyl ethyl ketone (MEK) (2-butanone) (ethyl methyl ketone)	78-93-3	PEL (CA)	200	590	300	885				Cal/OSHA PEL

Notation

+asb	containing asbestos fibers
appx-A	NIOSH Potential Occupational Carcinogen (Appendix A)
appx-C	Appendix C - Supplementary Exposure Limits
CA-10	Respirable fibers: length > 5µm; aspect ratio ≥ 3:1, as determined by the membrane filter method at 400-450 times magnification (4-mm objective), using phase-contrast illumination.
Ceiling-C	ceiling value is a limit value above which exposure should not occur
E	explosive
fib/cm³	fibers/cm³
fib/ml	fibers/ml
H	absorbed through the skin
i	inhalable fraction
less1silica	with less than 1 % free crystalline silica
no_asb	containing no asbestos fibers
noAsb_less1Sil	contains no asbestos and less than 1% free crystalline silica
PAHs	as polycyclic aromatic hydrocarbons (PAHs)
partml	particles/ml
r	respirable fraction
STEL	short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA	time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified

Biological limit values

Country	Name of agent	Parameter	Notation	Identifier	Value	Source
US	methanol	methanol		BEI®	15 mg/l	ACGIH® 2024
US	isopropanol	acetone		BEI®	40 mg/l	ACGIH® 2024
US	acetone	acetone		BEI®	25 mg/l	ACGIH® 2024
US	methyl ethyl ketone	methyl ethyl ketone		BEI®	2 mg/l	ACGIH® 2024

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
PM acetate	108-65-6	DNEL	275 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
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
talc	14807-96-6	DNEL	2.16 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
talc	14807-96-6	DNEL	2.16 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
talc	14807-96-6	DNEL	3.6 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
talc	14807-96-6	DNEL	3.6 mg/m³	human, inhalatory	worker (industry)	acute - local effects
talc	14807-96-6	DNEL	43.2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
methyl alcohol	67-56-1	DNEL	130 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
methyl alcohol	67-56-1	DNEL	130 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
methyl alcohol	67-56-1	DNEL	130 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
methyl alcohol	67-56-1	DNEL	130 mg/m³	human, inhalatory	worker (industry)	acute - local effects
methyl alcohol	67-56-1	DNEL	20 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
methyl alcohol	67-56-1	DNEL	20 mg/kg bw/day	human, dermal	worker (industry)	acute - 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)

Relevant PNECs of components

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
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 instance)
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)
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)

Relevant PNECs of components

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
PM acetate	108-65-6	PNEC	0.29 mg/kg	terrestrial organisms	soil	short-term (single instance)
talc	14807-96-6	PNEC	598 mg/l	aquatic organisms	freshwater	short-term (single instance)
talc	14807-96-6	PNEC	141.3 mg/l	aquatic organisms	marine water	short-term (single instance)
talc	14807-96-6	PNEC	31.33 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
talc	14807-96-6	PNEC	3.13 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
methyl alcohol	67-56-1	PNEC	20.8 mg/l	aquatic organisms	freshwater	short-term (single instance)
methyl alcohol	67-56-1	PNEC	2.08 mg/l	aquatic organisms	marine water	short-term (single instance)
methyl alcohol	67-56-1	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
methyl alcohol	67-56-1	PNEC	77 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
methyl alcohol	67-56-1	PNEC	7.7 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
methyl alcohol	67-56-1	PNEC	100 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)	1.4 vol%
- Upper explosion limit (UEL)	15 vol%
Vapor pressure	≤240 kPa at 37.8 °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	183 °C (auto-ignition temperature (liquids and gases))
Viscosity	not relevant (aerosol)
Explosive properties	none
Oxidizing properties	none

9.2 Other information

Solid content	3 %
Propellant content	12 %

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
mineral spirits	64742-47-8	inhalation: vapor	>5.28 $^{mg}/_{l}$/4h
talc	14807-96-6	inhalation: dust/mist	>2.1 $^{mg}/_{l}$/4h
methyl alcohol	67-56-1	oral	100 $^{mg}/_{kg}$
methyl alcohol	67-56-1	dermal	300 $^{mg}/_{kg}$
methyl alcohol	67-56-1	inhalation: vapor	3 $^{mg}/_{l}$/4h

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
ethanol	64-17-5	1	
isopropyl alcohol	67-63-0	3	
Carbon black	1333-86-4	2B	
talc	14807-96-6	3	
talc	14807-96-6	2B	

Legend

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

National Toxicology Program (United States): Report on Carcinogens			
Name of substance	**CAS No**	**Classification**	**Number**
Carbon black	1333-86-4	Known to be human carcinogens	1st Report on Carcinogens

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

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components					
Name of substance	**CAS No**	**Endpoint**	**Value**	**Species**	**Exposure time**
acetone	67-64-1	LC50	8,120 mg/l	fish	96 h
methyl ethyl ketone	78-93-3	LC50	2,993 mg/l	fish	96 h
methyl ethyl ketone	78-93-3	EC50	308 mg/l	aquatic invertebrates	48 h
methyl ethyl ketone	78-93-3	ErC50	2,029 mg/l	algae	96 h
isobutyl acetate	110-19-0	LC50	16.6 mg/l	fish	96 h
isobutyl acetate	110-19-0	EC50	26.8 mg/l	aquatic invertebrates	24 h
isobutyl acetate	110-19-0	ErC50	335 mg/l	algae	24 h
n-butane	106-97-8	LC50	49.9 mg/l	fish	96 h
n-butane	106-97-8	EC50	19.37 mg/l	algae	96 h
VM&P Naptha	64742-89-8	LL50	8.2 mg/l	fish	96 h
VM&P Naptha	64742-89-8	EL50	4.5 mg/l	aquatic invertebrates	48 h
ethanol	64-17-5	LC50	15,400 mg/l	fish	96 h
ethanol	64-17-5	EC50	12,700 mg/l	fish	96 h
ethanol	64-17-5	ErC50	22,000 mg/l	algae	96 h

Aquatic toxicity (acute) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
isopropyl alcohol	67-63-0	LC50	10,000 mg/l	fish	96 h
n-butyl acetate	123-86-4	LC50	18 mg/l	fish	96 h
n-butyl acetate	123-86-4	EC50	18 mg/l	fish	96 h
n-butyl acetate	123-86-4	ErC50	335 mg/l	algae	24 h
PM acetate	108-65-6	LC50	180 mg/l	fish	96 h
PM acetate	108-65-6	EC50	>500 mg/l	aquatic invertebrates	48 h
PM acetate	108-65-6	ErC50	>1,000 mg/l	algae	96 h
mineral spirits	64742-47-8	LL50	5 mg/l	fish	96 h
mineral spirits	64742-47-8	EL50	1.4 mg/l	aquatic invertebrates	48 h
Carbon black	1333-86-4	EC50	>5,600 mg/l	aquatic invertebrates	24 h
Carbon black	1333-86-4	ErC50	>10,000 mg/l	algae	72 h
talc	14807-96-6	LC50	89,581 mg/l	fish	96 h
talc	14807-96-6	EC50	7,203 mg/l	algae	96 h
methyl alcohol	67-56-1	LC50	15,400 mg/l	fish	96 h
methyl alcohol	67-56-1	EC50	12,700 mg/l	fish	96 h
methyl alcohol	67-56-1	ErC50	22,000 mg/l	algae	96 h

Aquatic toxicity (chronic) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
acetone	67-64-1	EC50	61.15 g/l	microorganisms	30 min
isobutyl acetate	110-19-0	EC50	34.2 mg/l	aquatic invertebrates	21 d
isobutyl acetate	110-19-0	LC50	43.5 mg/l	aquatic invertebrates	21 d
VM&P Naptha	64742-89-8	EL50	10 mg/l	fish	21 d
VM&P Naptha	64742-89-8	EC50	15.41 mg/l	microorganisms	40 h
ethanol	64-17-5	LC50	1,806 mg/l	aquatic invertebrates	10 d
ethanol	64-17-5	ErC50	675 mg/l	algae	4 d
n-butyl acetate	123-86-4	EC50	34.2 mg/l	aquatic invertebrates	21 d
n-butyl acetate	123-86-4	LC50	43.5 mg/l	aquatic invertebrates	21 d
PM acetate	108-65-6	LC50	63.5 mg/l	fish	14 d

Aquatic toxicity (chronic) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
PM acetate	108-65-6	EC50	>100 mg/l	aquatic invertebrates	21 d
mineral spirits	64742-47-8	EL50	0.89 mg/l	aquatic invertebrates	21 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.

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)	20,833 lbs (9,458 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	1986-12-31
methyl alcohol	67-56-1		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)
acetone	67-64-1		4	5000 (2270)
methyl ethyl ketone	78-93-3		4	5000 (2270)
methyl alcohol	67-56-1		3 4	5000 (2270)
n-butyl acetate	123-86-4		1	5000 (2270)

Legend
1 "1" indicates that the statutory source is section 311(b)(2) 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)

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		ATSDR Neurotoxicants CA TACs OEHHA RELs
n-butane	106-97-8		EC Annex VI CMRs - Cat. 1A EC Annex VI CMRs - Cat. 1B
VM&P Naptha	64742-89-8		EC Annex VI CMRs - Cat. 1B
isopropyl alcohol	67-63-0		OEHHA RELs
Carbon black	1333-86-4		IARC Carcinogens - 2B Prop 65
methyl alcohol	67-56-1		CA TACs IRIS Neurotoxicants NTP OHAT - Repr. or Dev. Toxicants OEHHA RELs Prop 65

- 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 %
methyl alcohol	67-56-1				1.0 %
n-butyl acetate	123-86-4		LHS		1.0 %

- Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
ethanol	64-17-5	A, O	
acetone	67-64-1	A, N, O	
methyl ethyl ketone	78-93-3	A, N, O	
isopropyl alcohol	67-63-0	A, N, O	
n-butyl acetate	123-86-4	A, O	
Carbon black	1333-86-4	A, N, O, R, *	
n-butane		N	
talc	14807-96-6	A, O	fiber
talc	14807-96-6	A, R, *	fiber

Legend

*	Substances which are regulated by OSHA as carcinogens; have been categorized by the ACGIH as either "human carcinogens" or "suspect of carcinogenic potential for man"; have been evaluated by the International Agency for Research on Cancer (IARC) and found to be carcinogens or potential carcinogens; or have been listed as a carcinogen or potential carcinogen in the Annual Report on Carcinogens published by the National Toxicology Program (NTP).
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
R	International Agency for Research on Cancer (IARC) Monographs on the Evaluation of the Carcinogenic Risks to Humans; Overall Evaluations of Carcinogenicity: An Updating of IARC Monographs Volumes 1 to 42, Supplement 7 (1987). Available from: WHO Publications Centre USA

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
ethanol	64-17-5		CA MU TE F3
acetone	67-64-1		F3
methyl ethyl ketone	78-93-3		F3
isopropyl alcohol	67-63-0		F3
methyl alcohol	67-56-1		TE F3
n-butyl acetate	123-86-4		F3
Carbon black	1333-86-4		CA
n-butane	106-97-8		F4
talc	14807-96-6	containing no asbestos fibers	
talc	14807-96-6	containing asbestos fibers	CA

Legend

CA	Carcinogenic

Legend
F3 Flammable - Third Degree
F4 Flammable - Fourth Degree
MU Mutagenic
TE Teratogenic

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

Name acc. to inventory	CAS No	Classification
ETHANOL	64-17-5	
2-PROPANONE	67-64-1	E
2-BUTANONE	78-93-3	E
2-PROPANOL	67-63-0	E
METHANOL	67-56-1	E
ACETIC ACID, BUTYL ESTER	123-86-4	E
CARBON BLACK	1333-86-4	
BUTANE	106-97-8	
TALC (MG3H2(SIO3)4)	14807-96-6	

Legend
E Environmental hazard

- Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
ethanol	64-17-5	T, F
acetone	67-64-1	T, F
methyl ethyl ketone	78-93-3	T, F
isopropyl alcohol	67-63-0	T, F
methyl alcohol	67-56-1	T, F
n-butyl acetate	123-86-4	T, F
Carbon black	1333-86-4	T
n-butane	106-97-8	T, F
talc	14807-96-6	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
ethanol (ethyl alcohol)	64-17-5	in alcoholic beverages	developmental
methanol	67-56-1		developmental
carbon black	1333-86-4	airborne, unbound particles of respirable size	cancer
talc	14807-96-6	containing asbestiform fibers	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.