

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Protector - Cavity protection
Article number: 2892997
UFI: AX26-NW3M-F101-WTK6

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

1.2.1 Relevant uses

Corrosion protection

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Normfest GmbH
Siemensstraße 23
42551 Velbert / GERMANY
Phone +49 2051 275-0
Fax +49 2051 275-141
Homepage www.normfest.com
E-mail info@normfest.de

Address enquiries to

Technical information info@normfest.de

Safety Data Sheet sdb@chemiebuero.de (No dispatch of safety data sheets)
Safety data sheets are available from the supplier.

1.4 Emergency telephone number

Advisory body Call NHS 111 or a doctor

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Aerosol 1: H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.
STOT SE 3: H336 May cause drowsiness or dizziness.
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.
The determination of properties hazardous to health does not take the propellant or carrier material into account.

Hazard pictograms



Signal word

DANGER

Contains:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F.
P273 Avoid release to the environment.
P260 Do not breathe vapours / spray.
P271 Use only outdoors or in a well-ventilated area.
P312 Call a POISON CENTER / doctor if you feel unwell.
P501 Dispose of contents/container in accordance with local/national regulation.

Special labelling

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains: Sulfonic acids, petroleum, calcium salts. EUH208 May produce an allergic reaction.

2004/42/CE

527 g/L II B e Special finishes (max. 840 g/l)

2.3 Other hazards

Human health dangers

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Environmental hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
30 - <50	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS: 64742-48-9, EINECS/ELINCS: 919-857-5, Reg-No.: 01-2119463258-33-XXXX GHS/CLP: Flam. Liq. 3: H226 - Asp. Tox. 1: H304 - STOT SE 3: H336 - EUH066
20 - <30	Butane CAS: 106-97-8, EINECS/ELINCS: 203-448-7, EU-INDEX: 601-004-00-0, Reg-No.: 01-2119474691-32-XXXX GHS/CLP: Flam. Gas 1A: H220 - Press. Gas: H280
10 - <15	Propane CAS: 74-98-6, EINECS/ELINCS: 200-827-9, EU-INDEX: 601-003-00-5, Reg-No.: 01-2119486944-21-XXXX GHS/CLP: Flam. Gas 1A: H220 - Press. Gas: H280
3 - <10	Sulfonic acids, petroleum, calcium salts CAS: 61789-86-4, EINECS/ELINCS: 263-093-9, Reg-No.: 01-2119488992-18-XXXX GHS/CLP: Skin Sens. 1B: H317 SCL [%]: >= 10: Skin Sens. 1B: H317
1 - <5	Hydrocarbon waxes (petroleum), oxidized CAS: 64743-00-6, EINECS/ELINCS: 265-205-1, Reg-No.: 01-2119972699-13-XXXX GHS/CLP: Eye Irrit. 2: H319
1 - <2.5	Nonane CAS: 111-84-2, EINECS/ELINCS: 203-913-4 GHS/CLP: Flam. Liq. 3: H226 - Skin Irrit. 2: H315 - Asp. Tox. 1: H304 - STOT SE 3: H336 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M-Factor (acute): 1, M-Factor (chronic): 1
1 - <5	Distillates (petroleum), solvent-refined light paraffinic CAS: 64741-89-5, EINECS/ELINCS: 265-091-3, EU-INDEX: 649-455-00-2, Reg-No.: 01-2119487067-30-XXXX GHS/CLP: Asp. Tox. 1: H304
1 - <5	iso-Butane CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0, Reg-No.: 01-2119485395-27-XXXX GHS/CLP: Flam. Gas 1A: H220 - Press. Gas: H280
0.1 - <0.25	Zinc oxide CAS: 1314-13-2, EINECS/ELINCS: 215-222-5, EU-INDEX: 030-013-00-7 GHS/CLP: Aquatic Chronic 1: H410 - Aquatic Acute 1: H400, M-Factor (acute): 10
0.1 - <0.25	Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1) CAS: 34140-91-5, EINECS/ELINCS: 251-846-4, Reg-No.: 01-2119974119-29-XXXX GHS/CLP: Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - STOT RE 2: H373 - Aquatic Chronic 2: H411 - Aquatic Acute 1: H400, M-Factor (acute): 10

Comment on component parts

For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Change soaked clothing.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
Eye contact	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
Ingestion	Do not induce vomiting. Get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Drowsiness
Vertigo
Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide.
Water spray jet.
Dry powder.
Foam.

Extinguishing media that must not be used Full water jet.

5.2 Special hazards arising from the substance or mixture

risk of formation of toxic pyrolysis products, carbon monoxide (CO), not combusted hydrocarbons
Bursting aerosols can be forcibly projected from a fire.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.
Cool containers at risk with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Ensure adequate ventilation.
Use personal protective equipment (protective gloves, safety glasses, protective clothing).

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid spilling or spraying in enclosed areas.
Use only in well-ventilated areas.
Keep away from all sources of ignition - Refrain from smoking.
Vapours can form an explosive mixture with air.
Do not eat, drink, smoke or take drugs at work.
Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.

Do not store together with oxidizing agents.

Keep container in a well-ventilated place.

Keep in a cool place, heat causes increase in pressure and risk of bursting.

Protect from heat/overheating and from sun.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection
8.1 Control parameters
Ingredients with occupational exposure limits to be monitored (GB)

Substance
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
CAS: 64742-48-9, EINECS/ELINCS: 919-857-5, Reg-No.: 01-2119463258-33-XXXX
Long-term exposure: 800 mg/m ³
Butane
CAS: 106-97-8, EINECS/ELINCS: 203-448-7, EU-INDEX: 601-004-00-0, Reg-No.: 01-2119474691-32-XXXX
Long-term exposure: 600 ppm, 1450 mg/m ³
Short-term exposure (15-minute): 750 ppm, 1810 mg/m ³
iso-Butane
CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0, Reg-No.: 01-2119485395-27-XXXX
Long-term exposure: 600 ppm, 1450 mg/m ³ , (Butane)
Short-term exposure (15-minute): 750 ppm, 1810 mg/m ³

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

DNEL

Substance
Butane, CAS: 106-97-8
There are no DNEL values established for the substance.
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9
Industrial, dermal, Long-term - systemic effects, 77 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 871 mg/m ³
general population, inhalative, Long-term - systemic effects, 185 mg/m ³
general population, dermal, Long-term - systemic effects, 46 mg/kg bw/day
general population, oral, Long-term - systemic effects, 46 mg/kg bw/day
iso-Butane, CAS: 75-28-5
There are no DNEL values established for the substance.
Propane, CAS: 74-98-6
There are no DNEL values established for the substance.
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
Industrial, inhalative, Long-term - systemic effects, 11.75 mg/m ³
Industrial, dermal, Long-term - systemic effects, 3.33 mg/kg bw/day
Industrial, dermal, Long-term - local effects, 1.03 mg/cm ²
general population, dermal, Long-term - local effects, 0.513 mg/cm ²
general population, dermal, Long-term - systemic effects, 1.667 mg/kg bw/day
general population, oral, Long-term - systemic effects, 0.833 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 2.9 mg/m ³
Distillates (petroleum), solvent-refined light paraffinic, CAS: 64741-89-5
Industrial, inhalative, Long-term - systemic effects, 2.73 mg/m ³
Industrial, inhalative, Long-term - local effects, 5.58 mg/m ³
Industrial, dermal, Long-term - systemic effects, 0.97 mg/kg bw/day
general population, oral, Long-term - systemic effects, 0.74 mg/kg bw/day
Hydrocarbon waxes (petroleum), oxidized, CAS: 64743-00-6

Industrial, dermal, Long-term - systemic effects, 1.7 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 0.23 mg/m ³
general population, dermal, Long-term - systemic effects, 0.8 mg/kg bw/day
general population, oral, Long-term - systemic effects, 0.8 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 0.06 mg/m ³
Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1), CAS: 34140-91-5
Industrial, inhalative, Long-term - systemic effects, 98.4 µg/m ³
Industrial, dermal, Long-term - systemic effects, 14 µg/kg bw/day
general population, oral, Long-term - systemic effects, 5 µg/kg bw/day
general population, inhalative, Long-term - systemic effects, 17.4 µg/m ³
general population, dermal, Long-term - systemic effects, 5 µg/kg bw/day

PNEC

Substance
Butane, CAS: 106-97-8
There are no PNEC values established for the substance.
iso-Butane, CAS: 75-28-5
There are no PNEC values established for the substance.
Propane, CAS: 74-98-6
There are no PNEC values established for the substance.
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
sediment (seawater), 226 000 000 mg/kg sediment dw
freshwater, 1 mg/L
seawater, 1 mg/L
sediment (freshwater), 226 000 000 mg/kg sediment dw
soil, 271 000 000 mg/kg soil dw
oral (food), 16.667 mg/kg food
sewage treatment plants (STP), 1000 mg/L
Distillates (petroleum), solvent-refined light paraffinic, CAS: 64741-89-5
oral (food), 9.33 mg/kg
Hydrocarbon waxes (petroleum), oxidized, CAS: 64743-00-6
oral (food), 66.7 mg/kg
soil, 854 mg/kg
sediment (seawater), 427 mg/kg
sediment (freshwater), 4270 mg/kg
sewage treatment plants (STP), 100 mg/L
seawater, 0.01 mg/L
freshwater, 0.1 mg/L
Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1), CAS: 34140-91-5
freshwater, 6.46 µg/L
soil, 11.1 mg/kg soil dw
seawater, 0.646 µg/L
sediment (freshwater), 388 mg/kg sediment dw
sediment (seawater), 38.8 mg/kg sediment dw

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	>0.4 mm Nitrile rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Solvent-resistant protective clothing (EN 340)
Other	Avoid contact with eyes and skin. Do not inhale aerosols. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: combination filter AX-P2. (DIN EN 14387)
Thermal hazards	No information available.
Delimitation and monitoring of the environmental exposition	not determined

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	aerosol
Color	beige
Odor	characteristic
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	< -20
Flash point [°C]	< -20
Flammability	Extremely flammable aerosol.
Lower explosion limit	0.6 Vol.%
Upper explosion limit	10.9 Vol.%
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	350
Density [g/cm³]	0.703
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	immiscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	not applicable
Relative vapour density	not applicable
Evaporation speed	not applicable
Melting point [°C]	not applicable
Auto-ignition temperature [°C]	250
Decomposition temperature [°C]	not applicable
Particle characteristics	not applicable

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Risk of bursting.

Reactions with strong oxidizing agents.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

See SECTION 7

10.6 Hazardous decomposition products

Flammable gases/vapours.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

Based on the available information, the classification criteria are not fulfilled.

Product
ATE-mix, oral, >2000 mg/kg bw
Substance
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9
LD50, oral, Rat, > 5000 mg/kg
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
LD50, oral, Rat, > 5000 mg/kg, OECD 401
Distillates (petroleum), solvent-refined light paraffinic, CAS: 64741-89-5
LD50, oral, Rat, > 5000 mg/kg (OECD 401)
Hydrocarbon waxes (petroleum), oxidized, CAS: 64743-00-6
LD50, oral, Rat, > 5000 mg/kg bw
Zinc oxide, CAS: 1314-13-2
LD50, oral, Rat, > 5000 mg/kg
Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1), CAS: 34140-91-5
LD50, oral, Rat, 2000 mg/kg bw

Acute dermal toxicity

Based on the available information, the classification criteria are not fulfilled.

Product
ATE-mix, dermal, >2000 mg/kg bw
Substance
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9
LD50, dermal, Rabbit, > 3160 mg/kg
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
LD50, dermal, Rabbit, > 4000 mg/kg, OECD 402
Distillates (petroleum), solvent-refined light paraffinic, CAS: 64741-89-5
LD50, dermal, Rabbit, > 5000 mg/kg (OECD 402)
Zinc oxide, CAS: 1314-13-2
LD50, dermal, Rat, > 2000 mg/kg
Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1), CAS: 34140-91-5
LD50, dermal, Rat, > 2000 mg/kg bw

Acute inhalational toxicity

Based on the available information, the classification criteria are not fulfilled.

Product
ATE-mix, inhalativ (mist), >20 mg/L
Substance
Butane, CAS: 106-97-8
LC50, inhalative, Rat, 658 mg/L (IUCLID)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9
LC50, inhalative, Rat, > 5000 mg/m ³ /8h
iso-Butane, CAS: 75-28-5
LC50, inhalative, mouse, 1237 mg/l (2h) (Lit.)

Propane, CAS: 74-98-6
LC50, inhalative, Rat, > 1443 mg/l (15 min) (Lit.)
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
LC50, inhalative, Rat, > 1.9 mg/L (4h)
Distillates (petroleum), solvent-refined light paraffinic, CAS: 64741-89-5
LC50, inhalativ (mist), Rat, > 4.026 mg/L (OECD 403)
Zinc oxide, CAS: 1314-13-2
LC0, inhalative, Rat, ≥ 5 mg/m³/3h
Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1), CAS: 34140-91-5
Based on the available information, the classification criteria are not fulfilled.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Substance
Butane, CAS: 106-97-8
Eye, non-irritating
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9
Eye, non-irritating
iso-Butane, CAS: 75-28-5
Eye, non-irritating
Propane, CAS: 74-98-6
Eye, non-irritating
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
Eye, non-irritating
Distillates (petroleum), solvent-refined light paraffinic, CAS: 64741-89-5
Eye, non-irritating
Hydrocarbon waxes (petroleum), oxidized, CAS: 64743-00-6
Eye, irritant
Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1), CAS: 34140-91-5
Eye, irritant

Skin corrosion/irritation

Slight irritant effect.

Repeated exposure may cause skin dryness or cracking.

Substance
Butane, CAS: 106-97-8
dermal, non-irritating
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9
dermal, non-irritating
iso-Butane, CAS: 75-28-5
dermal, non-irritating
Propane, CAS: 74-98-6
dermal, non-irritating
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
dermal, non-irritating
Distillates (petroleum), solvent-refined light paraffinic, CAS: 64741-89-5
dermal, non-irritating
Hydrocarbon waxes (petroleum), oxidized, CAS: 64743-00-6
dermal, non-irritating
Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1), CAS: 34140-91-5

dermal, irritant

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.
 No classification due to substance-specific concentration limits.
 (CAS: 61789-86-4)
 May cause an allergic skin reaction.

Substance
Butane, CAS: 106-97-8
inhalative, non-sensitizing
dermal, non-sensitizing
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9
dermal, non-sensitizing
iso-Butane, CAS: 75-28-5
inhalative, non-sensitizing
dermal, non-sensitizing
Propane, CAS: 74-98-6
inhalative, non-sensitizing
dermal, non-sensitizing
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
dermal, sensitising
Distillates (petroleum), solvent-refined light paraffinic, CAS: 64741-89-5
dermal, non-sensitizing
Hydrocarbon waxes (petroleum), oxidized, CAS: 64743-00-6
dermal, non-sensitizing
Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1), CAS: 34140-91-5
dermal, non-sensitizing

**Specific target organ toxicity —
single exposure**

Vapours may cause drowsiness and dizziness.

Substance
Butane, CAS: 106-97-8
inhalative, non-irritating
iso-Butane, CAS: 75-28-5
inhalative, non-irritating
Propane, CAS: 74-98-6
inhalative, non-irritating
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
inhalative, non-irritating

**Specific target organ toxicity —
repeated exposure**

Based on available data, the classification criteria are not met.

Substance
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9
NOAEL, inhalative, Rat, 6000 mg/m ³ , negativ
NOAEL, oral, Rat, 500 mg/kg bw/day, negativ
iso-Butane, CAS: 75-28-5
NOAEC, inhalative, Rat, 4437 mg/m ³ , The effects observed are not sufficient for classification.
Propane, CAS: 74-98-6
NOAEC, inhalative, Rat, 4437 mg/m ³ , The effects observed are not sufficient for classification.
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4

NOAEL, dermal, Rat, 1000 mg/kg bw/day, no adverse effect observed
NOAEL, oral, Rat, 500 mg/kg bw/day, The effects observed are not sufficient for classification.
NOAEC, inhalative, Rat, 881.58 mg/m ³ , The effects observed are not sufficient for classification.
Distillates (petroleum), solvent-refined light paraffinic, CAS: 64741-89-5
LOAEL, dermal, mouse, 100 mg/kg bw/day (chronic), The effects observed are not sufficient for classification.
LOAEL, oral, Rat, 125 mg/kg bw/day (subchronic), The effects observed are not sufficient for classification.
LOAEC, inhalative, Rat, 980 mg/m ³ (subacute), no adverse effect observed
Hydrocarbon waxes (petroleum), oxidized, CAS: 64743-00-6
NOAEL, oral, Rat, 1000 mg/kg bw/day
Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1), CAS: 34140-91-5
NOAEL, oral, Rat, 0.4 mg/kg bw/day

Mutagenicity

Does not contain a relevant substance that meets the classification criteria.

Substance
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9
in vivo, negativ
in vitro, negativ
Distillates (petroleum), solvent-refined light paraffinic, CAS: 64741-89-5
in vitro, negativ
Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1), CAS: 34140-91-5
in vitro, negativ

Reproduction toxicity

Does not contain a relevant substance that meets the classification criteria.

- Fertility

Substance
Distillates (petroleum), solvent-refined light paraffinic, CAS: 64741-89-5
NOAEL, oral, Rat, 1000 mg/kg bw/day (subchronic), no adverse effect observed
Hydrocarbon waxes (petroleum), oxidized, CAS: 64743-00-6
NOAEL, oral, Rat, 1000 mg/kg bw/day

- Development

Substance
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9
NOAEC, inhalative, Rat, 5220 mg/m ³

Carcinogenicity

Does not contain a relevant substance that meets the classification criteria.

Aspiration hazard

May be fatal if swallowed and enters airways.

General remarks

Toxicological data of complete product are not available.

11.2 Information on other hazards**11.2.1 Endocrine disrupting properties**

Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information

none

SECTION 12: Ecological information
12.1 Toxicity

Product
EC50, (96h), Bacteria, 200 mg/l
Substance
Butane, CAS: 106-97-8
LC50, (48h), Invertebrates, 14.22 - 69.43 mg/L
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9
EL50, (72h), Algae, > 1000 mg/l
NOELR, (72h), Algae, 100 mg/l
LL50, (96h), Oncorhynchus mykiss, > 1000 mg/l
LL50, (48h), Daphnia magna, >1000 mg/l
iso-Butane, CAS: 75-28-5
LC50, (96h), fish, 7.71 - 19.37 mg/L
Sulfonic acids, petroleum, calcium salts, CAS: 61789-86-4
LC50, (96h), fish, > 10 mg/l (OECD 203)
EC50, (3h), Activated sludge, > 10 mg/l (OECD 209)
Distillates (petroleum), solvent-refined light paraffinic, CAS: 64741-89-5
EL50, Daphnia magna, > 10000 mg/L (OECD 202)
NOEC, Daphnia magna, > 1000 mg/L (OECD 202)
NOEC, Daphnia magna, 10 mg/L (OECD 211)
Hydrocarbon waxes (petroleum), oxidized, CAS: 64743-00-6
EL50, (72h), Algae, 100 mg/L
EL50, (48h), Invertebrates, 100 mg/L
LL50, (4d), fish, 100 mg/L
Zinc oxide, CAS: 1314-13-2
LC50, (48h), Daphnia magna, 98 µg/l
LC50, (96h), Oncorhynchus mykiss, 1.1 ppm
IC50, (72h), Pseudokirchneriella subcapitata, 46 µg/l
IC50, (96h), Skeletonema costatum, 1.85 mg/l
Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1), CAS: 34140-91-5
LC50, (4d), fish, 950 - 1 350 µg/L
EC50, (21d), Invertebrates, 1.41 mg/L
EC50, (72h), Algae, 4.73 - 6 µg/L

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not applicable
Biological degradability	not applicable

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Ecological data of complete product are not available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.

Waste no. (recommended)

160504* gases in pressure containers (including halons) containing dangerous substances

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended)

150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information**14.1 UN number or ID number**


Transport by land according to ADR/RID 1950


Inland navigation (ADN) 1950


Marine transport in accordance with IMDG 1950


Air transport in accordance with IATA 1950

14.2 UN proper shipping name

Transport by land according to ADR/RID	Aerosols
- Classification Code	5F
- Label	
- ADR LQ	1 I
- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 2 (D)

Inland navigation (ADN)	Aerosols
- Classification Code	5F
- Label	

Marine transport in accordance with IMDG	Aerosols
- EMS	F-D, S-U
- Label	
- IMDG LQ	1 I

Air transport in accordance with IATA	Aerosols, flammable
- Label	

14.3 Transport hazard class(es)

Transport by land according to ADR/RID	2
Inland navigation (ADN)	2
Marine transport in accordance with IMDG	2.1
Air transport in accordance with IATA	2.1

14.4 Packing group

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EEC-REGULATIONS	2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148
- Comment on component parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
- Annex I (REACH)	The product is not subject to Annex I restrictions.
- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances \geq 0.1% that are subject to authorisation.
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains \geq 0.1% of substances with the following restrictions. 3, 40, 75 According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the following restrictions. 3
TRANSPORT-REGULATIONS	ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.
- Observe employment restrictions for people	Observe employment restrictions for young people.
- VOC (2010/75/CE)	74,92 %

15.2 Chemical safety assessment

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

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H411 Toxic to aquatic life with long lasting effects.
 H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.
 H400 Very toxic to aquatic life.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H280 Contains gas under pressure; may explode if heated.
 H220 Extremely flammable gas.
 EUH066 Repeated exposure may cause skin dryness or cracking.
 H336 May cause drowsiness or dizziness.
 H304 May be fatal if swallowed and enters airways.
 H226 Flammable liquid and vapour.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 EL50 = Median effective loading
 ELINCS = European List of Notified Chemical Substances
 EmS = Emergency Schedules
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 IVIS = In vitro irritation score
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 LL50 = Median lethal loading
 LQ = Limited Quantities
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV@/TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Aerosol 1: H222 Extremely flammable aerosol. (Bridging principle "Aerosols") H229
 Pressurised container: May burst if heated. (Bridging principle "Aerosols")
 STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)
 Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (Bridging principle "Aerosols")
 Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)



Modified position

SECTION 3 deleted: Ethane

SECTION 3 been added: Distillates (petroleum), solvent-refined light paraffinic

SECTION 3 been added: Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)

SECTION 2 been added: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 2 deleted: Does not contain any PBT or vPvB substances.

SECTION 2 been added: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 2 deleted: Contains no ingredients with endocrine-disrupting properties.

SECTION 9 been added: Extremely flammable aerosol.

SECTION 9 deleted: not applicable

SECTION 9 been added: liquid

SECTION 9 deleted: No information available.

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