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

1.1 Product identifier

Corona - Spray paint, heat-resistant to +650 °C – silver
Article number: 2893887
UFI: RPGY-S0H2-5204-16P9

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

1.2.1 Relevant uses

Paint

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

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (English)

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.
Eye Irrit. 2: H319 Causes serious eye irritation.
STOT SE 3: H336 May cause drowsiness or dizziness.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP). The determination of properties hazardous to health does not take the propellant or carrier material into account.

Hazard pictograms

Signal word DANGER

Contains: Butanone

Ethyl acetate

n-Butyl acetate

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

Hazard statements
H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

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.
P261 Avoid breathing vapours / spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice / attention.
P312 Call a POISON CENTER / doctor if you feel unwell.
P501 Dispose of contents/container in accordance with local/national regulation.

2004/42/CE 655 g/L II B e Special finishes (max. 840 g/l)

2.3 Other hazards

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.
Contains no ingredients with endocrine-disrupting properties.

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
10 - <25	Propane
	CAS: 74-98-6
	GHS/CLP: Flam. Gas 1: H220 - Press. Gas: H280
10 - <25	Butane
	CAS: 106-97-8
	GHS/CLP: Flam. Gas 1: H220 - Press. Gas: H280
10 - <15	Ethyl acetate
	CAS: 141-78-6
	GHS/CLP: Flam. Liq. 2: H225 - STOT SE 3: H336
10 - <15	Butanone
	CAS: 78-93-3
	GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336 - EUH066
5 - <10	Dimethyl ether
	CAS: 115-10-6
	GHS/CLP: Flam. Gas 1: H220 - Press. Gas: H280
5 - <10	n-Butyl acetate
	CAS: 123-86-4
	GHS/CLP: Flam. Liq. 3: H226 - STOT SE 3: H336 - EUH066
5 - <10	iso-Butane
	CAS: 75-28-5
	GHS/CLP: Flam. Gas 1: H220 - Press. Gas: H280
5 - <10	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
	CAS: 64742-48-9
	GHS/CLP: Flam. Liq. 3: H226 - Asp. Tox. 1: H304 - STOT SE 3: H336 - EUH066
1 - <5	Aluminium
	CAS: 7429-90-5
	GHS/CLP: Flam. Sol. 2: H228
1 - <5	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
	GHS/CLP: Asp. Tox. 1: H304 - EUH066
<0,025	Octamethylcyclotetrasiloxane
	CAS: 556-67-2
	GHS/CLP: Flam. Liq. 3: H226 - Repr. 2: H361f - Aquatic Chronic 1: H410, M-Factor (chronic): 10

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
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.
Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Drowsiness
Vertigo

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 within 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).
High risk of slipping due to leakage/spillage of product.

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, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Avoid spilling or spraying in enclosed 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
Dimethyl ether
CAS: 115-10-6
Long-term exposure: 400 ppm, 766 mg/m³
Short-term exposure (15-minute): 500 ppm, 958 mg/m³
n-Butyl acetate
CAS: 123-86-4
Long-term exposure: 150 ppm, 724 mg/m³
Short-term exposure (15-minute): 200 ppm, 966 mg/m³
iso-Butane
CAS: 75-28-5
Long-term exposure: 600 ppm, 1450 mg/m³, (Butane)
Short-term exposure (15-minute): 750 ppm, 1810 mg/m³
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
CAS: 64742-48-9
Long-term exposure: 800 mg/m³
Butane
CAS: 106-97-8
Long-term exposure: 600 ppm, 1450 mg/m³
Short-term exposure (15-minute): 750 ppm, 1810 mg/m³
Butanone
CAS: 78-93-3
Long-term exposure: 200 ppm, 600 mg/m³, Sk, BmgV
Short-term exposure (15-minute): 300 ppm, 899 mg/m³
Aluminium
CAS: 7429-90-5
Long-term exposure: 10 mg/m³, inhalable dust (respirable dust: 4 mg/m³)
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Long-term exposure: 184 ppm, 1200 mg/m³, ExxonMobil

DNEL

Substance
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
There are no DNEL values established for the substance.
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9
Industrial, inhalative, Long-term - systemic effects, 1500 mg/m³
Industrial, dermal, Long-term - systemic effects, 300 mg/kg bw/d
general population, inhalative, Long-term - systemic effects, 900 mg/m³
general population, dermal, Long-term - systemic effects, 300 mg/kg bw/d
general population, oral, Long-term - systemic effects, 300 mg/kg bw/d
Butanone, CAS: 78-93-3
Industrial, inhalative (vapor), Long-term - systemic effects, 600 mg/m³
Industrial, dermal, Long-term - systemic effects, 1161 mg/kg bw/day

general population, oral, Long-term - systemic effects, 31 mg/kg bw/day
general population, inhalative (vapor), Long-term - systemic effects, 106 mg/m³
general population, dermal, Long-term - systemic effects, 412 mg/kg bw/day
Propane, CAS: 74-98-6
There are no DNEL values established for the substance.
n-Butyl acetate, CAS: 123-86-4
Industrial, dermal, Long-term - systemic effects, 11 mg/kg bw/day
Industrial, inhalative (vapor), Acute - systemic effects, 600 mg/m³
Industrial, inhalative (vapor), Acute - local effects, 600 mg/m³
Industrial, inhalative (vapor), Long-term - local effects, 300 mg/m³
Industrial, inhalative (vapor), Long-term - systemic effects, 300 mg/m³
Industrial, dermal, Acute - systemic effects, 11 mg/kg bw/day
general population, dermal, Acute - systemic effects, 6 mg/kg bw/day
general population, inhalative (vapor), Long-term - systemic effects, 35,7 mg/m³
general population, inhalative (vapor), Acute - systemic effects, 300 mg/m³
general population, inhalative (vapor), Long-term - local effects, 35,7 mg/m³
general population, oral, Long-term - systemic effects, 2 mg/kg bw/day
general population, oral, Acute - systemic effects, 2 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 6 mg/kg bw/day
general population, inhalative (vapor), Acute - local effects, 300 mg/m³
Ethyl acetate, CAS: 141-78-6
Industrial, inhalative, Acute - systemic effects, 1468 mg/kg
Industrial, dermal, Long-term - systemic effects, 63 mg/kg
Industrial, inhalative, Long-term - local effects, 734 mg/kg
general population, inhalative, Long-term - local effects, 367 mg/kg
general population, inhalative, Acute - local effects, 734 mg/kg
general population, inhalative, Acute - systemic effects, 734 mg/kg
general population, dermal, Long-term - systemic effects, 37 mg/kg
general population, oral, Long-term - systemic effects, 4,5 mg/kg
Dimethyl ether, CAS: 115-10-6
Industrial, inhalative (gas), Long-term - systemic effects, 1894 mg/m³
general population, inhalative (gas), Long-term - systemic effects, 471 mg/m³
Octamethylcyclotetrasiloxane, CAS: 556-67-2
Industrial, inhalative, Long-term - local effects, 73 mg/m³
Industrial, inhalative, Long-term - systemic effects, 73 mg/m³
general population, inhalative, Long-term - systemic effects, 13 mg/m³
general population, oral, Long-term - systemic effects, 3,7 mg/kg bw/day
general population, inhalative, Long-term - local effects, 13 mg/m³
Aluminium, CAS: 7429-90-5
Industrial, inhalative, Long-term - local effects, 3,72 mg/m³
Industrial, inhalative, Long-term - systemic effects, 3,72 mg/m³
general population, oral, Long-term - systemic effects, 7,9 mg/kg bw/day

PNEC

Substance
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
There are no PNEC values established for the substance.
Butanone, CAS: 78-93-3
soil, 22,5 mg/kg

freshwater, 55,8 mg/L
seawater, 55,8 mg/L
sewage treatment plants (STP), 709 mg/L
sediment (seawater), 284,74 mg/kg
oral (food), 1000 mg/kg
sediment (freshwater), 284,74 mg/kg
Propane, CAS: 74-98-6
There are no PNEC values established for the substance.
n-Butyl acetate, CAS: 123-86-4
soil, 0,09 mg/kg/ dw
sediment (seawater), 0,098 mg/kg/ dw
sediment (freshwater), 0,981 mg/kg/ dw
sewage treatment plants (STP), 35,6 mg/L (AF= 10)
seawater, 0,018 mg/L (AF= 1000)
freshwater, 0,18 mg/L (AF= 100)
Ethyl acetate, CAS: 141-78-6
freshwater, 0,26 mg/L
sediment (freshwater), 1,25 mg/kg
soil, 0,24 mg/kg
sediment (seawater), 0,125 mg/kg
seawater, 0,026 mg/L
sewage treatment plants (STP), 650 mg/L
Dimethyl ether, CAS: 115-10-6
freshwater, 0,155 mg/L
soil, 0,045 mg/kg
sediment (seawater), 0,069 mg/kg
sediment (freshwater), 0,681 mg/kg
seawater, 0,016 mg/L
sewage treatment plants (STP), 160 mg/L
Octamethylcyclotetrasiloxane, CAS: 556-67-2
freshwater, 1,5 µg/L
seawater, 0,15 µg/L
sewage treatment plants (STP), 10 mg/L
sediment (freshwater), 3 mg/kg sediment dw
sediment (seawater), 0,3 mg/kg sediment dw
soil, 0,54 mg/kg soil dw
oral (food), 41 mg/kg
Aluminium, CAS: 7429-90-5
There are no PNEC values established for the substance.

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	0,7 mm Butyl 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	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. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols.
Respiratory protection	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, filter AX (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	aerosol
Color	silver-grey
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	<0 (Liquid)
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	1,5 Vol.%
Upper explosion limit	11,5 Vol.%
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	360
Density [g/cm³]	0,708
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	not applicable
Decomposition temperature [°C]	not applicable
Particle characteristics	No information available.

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.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Strong oxidizing agent.

10.6 Hazardous decomposition products

Flammable gases/vapours.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

Substance
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
LD50, oral, Rat, 5000 - 15000 mg/kg bw
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9
LD50, oral, Rat, > 5000 mg/kg
Butanone, CAS: 78-93-3
LD50, oral, Rat, 3300 mg/kg (Lit.)
n-Butyl acetate, CAS: 123-86-4
LD50, oral, Rat, 10760 mg/kg (OECD 423)
Ethyl acetate, CAS: 141-78-6
LD50, oral, Rat, 5620 mg/kg
Octamethylcyclotetrasiloxane, CAS: 556-67-2
LD50, oral, Rat, 4800 mg/kg
Aluminium, CAS: 7429-90-5
LD50, oral, Rat, > 15900 mg/kg bw

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

Substance
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
LD50, dermal, Rabbit, 3160 - 5000 mg/kg bw
LD50, dermal, Rat, >2000 mg/kg bw
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9
LD50, dermal, Rabbit, > 5000 mg/kg
Butanone, CAS: 78-93-3
LD50, dermal, Rabbit, > 5000 mg/kg (Lit.)
n-Butyl acetate, CAS: 123-86-4
LD50, dermal, Rabbit, >14112 mg/kg (OECD 402)
Octamethylcyclotetrasiloxane, CAS: 556-67-2
LD50, dermal, Rat, > 2400 mg/kg

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

Substance
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
LC50, inhalative, Rat, 4,951 - 9,3 mg/L air, 4h
LC50, inhalative, Rat, 41 - 4467 ppm, 8h
LC50, inhalative, Rat, 5 mg/L air, 8h
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9
LC50, inhalative, Rat, > 4951 mg/m³/4h
Butanone, CAS: 78-93-3
LC50, inhalative, Rat, > 20 mg/l/4h (Lit.)
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.)

Butane, CAS: 106-97-8
LC50, inhalative, Rat, 658 mg/l (4 h) (Lit.)
n-Butyl acetate, CAS: 123-86-4
LC50, inhalative, Rat, 23,4 mg/l (4h) (OECD 403)
Ethyl acetate, CAS: 141-78-6
LC50, inhalative, Rat, 30 mg/L
Dimethyl ether, CAS: 115-10-6
LC50, inhalative, Rat, 309 mg/l (4h)
Octamethylcyclotetrasiloxane, CAS: 556-67-2
LC50, inhalative, Rat, 36 mg/L 4h

Serious eye damage/irritation Irritant

Substance
Butanone, CAS: 78-93-3
Rabbit, OECD 405, irritant
Propane, CAS: 74-98-6
Eye, non-irritating
n-Butyl acetate, CAS: 123-86-4
Eye, Rabbit, OECD 405, non-irritating
Octamethylcyclotetrasiloxane, CAS: 556-67-2
Eye, non-irritating
Aluminium, CAS: 7429-90-5
Eye, non-irritating

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Substance
Propane, CAS: 74-98-6
dermal, non-irritating
n-Butyl acetate, CAS: 123-86-4
dermal, Rabbit, OECD 404, non-irritating
Octamethylcyclotetrasiloxane, CAS: 556-67-2
dermal, non-irritating
Aluminium, CAS: 7429-90-5
dermal, non-irritating

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Substance
Propane, CAS: 74-98-6
inhalative, non-sensitizing
dermal, non-sensitizing
n-Butyl acetate, CAS: 123-86-4
dermal, Guinea pig, Study, non-sensitizing
Octamethylcyclotetrasiloxane, CAS: 556-67-2
dermal, non-sensitizing
Aluminium, CAS: 7429-90-5
inhalative, non-sensitizing
dermal, non-sensitizing

Specific target organ toxicity — single exposure Vapours may cause drowsiness and dizziness.

Substance
Propane, CAS: 74-98-6
inhalative, non-irritating
n-Butyl acetate, CAS: 123-86-4
No information available.

Specific target organ toxicity — repeated exposure Based on available data, the classification criteria are not met.

Substance
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
NOAEL, dermal, Rabbit, 2000 mg/kg bw/day
NOAEL, oral, Rat, 500 mg/kg bw/day
NOAEC, inhalative, mouse, 11600 mg/m³
NOAEC, inhalative, Rat, 6000 mg/m³
Butanone, CAS: 78-93-3
NOAEC, inhalation (vapour), Rat, 5041 ppm, OECD 413
iso-Butane, CAS: 75-28-5
NOAEC, inhalative, Rat, 4437 mg/m³
Propane, CAS: 74-98-6
NOAEC, inhalative, Rat, 4437 mg/m³
n-Butyl acetate, CAS: 123-86-4
NOAEL, oral, Rat, 196 mg/kg bw/day, Study, negativ
NOAEC, inhalative, Rat, 2400 mg/m³, Study, negativ
Dimethyl ether, CAS: 115-10-6
NOAEC, inhalative, Rat, 47106 mg/m³, OECD 452
Octamethylcyclotetrasiloxane, CAS: 556-67-2
dermal, Rabbit, 960 mg/kg bw/day (subacute), no adverse effect observed

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

Substance
n-Butyl acetate, CAS: 123-86-4
Ames-test, negativ

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

Substance
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
NOAEC, inhalative, Rat, 5220 mg/m³
n-Butyl acetate, CAS: 123-86-4
NOAEC, inhalative, Rat, 9640 mg/m³, OECD 416, negativ
Dimethyl ether, CAS: 115-10-6
NOAEC, inhalative, Rat, 47106 mg/m³, OECD 452
NOAEC, inhalative, Rat, 75370 mg/m³, OECD 414
Octamethylcyclotetrasiloxane, CAS: 556-67-2
NOAEC, inhalative, Rat, 3640 mg/m³ (subchronic), adverse effect observed

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

Substance
Dimethyl ether, CAS: 115-10-6
NOAEC, inhalative, Rat, 47106 mg/m³, OECD 453

Aspiration hazard May be fatal if swallowed and enters airways.

General remarks

Toxicological data of complete product are not available.

SECTION 12: Ecological information

12.1 Toxicity

Substance
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
EL50, (72h), Algae, 1 g/L
NOELR, (28d), fish, 101 µg/L
NOELR, (72h), Algae, 1 g/L
NOELR, (21d), Invertebrates, 176 µg/L
LL50, (48h), fish, 1 g/L
LL50, (24h), fish, 1 g/L
LL50, (24h), Invertebrates, 1 g/L
LL50, (48h), Invertebrates, 1 g/L
LL50, (72h), Invertebrates, 1 g/L
LL50, (72h), fish, 1 g/L
LL50, (96h), Invertebrates, 1 g/L
LL50, (96h), fish, 1 g/L
LL0, (96h), fish, 1 g/L
LL0, (24h), Invertebrates, 1 g/L
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9
EL0, (48h), Daphnia magna, 1000 mg/l
EL50, (72h), Algae, > 1000 mg/l
NOELR, (72h), Algae, 100 mg/l
LL50, (96h), Oncorhynchus mykiss, > 1000 mg/l
Butanone, CAS: 78-93-3
LC50, (48h), Leuciscus idus, > 100 mg/l (Lit.)
EC50, (48h), Daphnia magna, > 100 mg/l (Lit.)
n-Butyl acetate, CAS: 123-86-4
LC50, (96h), Pimephales promelas, 18 mg/l (OECD 203)
EC50, (48h), Daphnia magna, 44 mg/l
EC50, (72h), Desmodesmus subspicatus, 647,7 mg/l
IC50, Bacteria, 356 mg/l (40 h)
NOEC, Desmodesmus subspicatus, 200 mg/l
Ethyl acetate, CAS: 141-78-6
LC50, (96h), fish, 230 mg/L
EC50, (48h), Daphnia magna, 610 mg/L
NOEC, (21d), Daphnia magna, 2,4 mg/L
Dimethyl ether, CAS: 115-10-6
LC50, (96h), Poecilia reticulate, 4,1 g/L
EC50, (48h), Daphnia magna, 4,4 g/L
Octamethylcyclotetrasiloxane, CAS: 556-67-2
EC50, (48h), Invertebrates, 0,015 mg/L
NOEC, (48h), Invertebrates, 0,015 mg/L
Aluminium, CAS: 7429-90-5
LC50, (72h), fish, 10 - 19,3 mg/L (ECHA)
NOEC, (4d), Algae, 45,7 mg/L (ECHA)
NOEC, (96h), Lepomis macrochirus, > 50 mg/l
NOEC, (28d), fish, 4,7 - 23,1 mg/L (ECHA)

NOEC, (28d), Invertebrates, 53,1 - 4281,8 µg/L (ECHA)

12.2 Persistence and degradability

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

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 national regulations.

Product

Dispose of as hazardous waste.

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

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 l
- 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 l
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

TRANSPORT-REGULATIONS	ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
- Observe employment restrictions for people	Observe employment restrictions for young people.
- VOC (2010/75/CE)	87,66 %

15.2 Chemical safety assessment

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

SECTION 16: Other information

16.1 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

16.2 Other information

Classification procedure

Aerosol 1: H222 Extremely flammable aerosol. (Bridging principle "Aerosols") H229 Pressurised container: May burst if heated. (Bridging principle "Aerosols")
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)

Modified position

SECTION 3 deleted: Xylene, mixture of isomers

SECTION 3 been added: Octamethylcyclotetrasiloxane

SECTION 3 been added: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

SECTION 3 been added: Dimethyl ether

SECTION 3 deleted: Fatty acids, tall-oil, esters with polyethylene glycol mono(hydrogenmaleate), compounds with amides from diethylenetriamine and tall-oil fatty acids

SECTION 3 been added: Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

SECTION 3 deleted: Ethylbenzene

SECTION 2 been added: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

SECTION 3 deleted: Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

SECTION 2 deleted: Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

SECTION 3 deleted: Cyclohexanone

SECTION 2 deleted: Asp. Tox. 1

SECTION 2 been added: P102 Keep out of reach of children.

SECTION 2 been added: P280 Wear eye protection.

SECTION 2 been added: P101 If medical advice is needed, have product container or label at hand.

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

SECTION 2 deleted: P280 Wear protective gloves / eye protection.

SECTION 4 deleted: Allergic reactions

SECTION 11 been added: Based on available data, the classification criteria are not met.

SECTION 11 been added: Based on available data, the classification criteria are not met.

SECTION 11 deleted: May cause an allergic skin reaction.

SECTION 11 been added: Contains no ingredients with endocrine-disrupting properties.

SECTION 11 deleted: The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 11 been added: Based on available data, the classification criteria are not met.

SECTION 12 been added: Contains no ingredients with endocrine-disrupting properties.

SECTION 12 deleted: The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.