

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

1.1 Product identifier

StarGard Quick Drying Fabric Protector

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

1.2.1 Relevant uses

Impregnating

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company SUPAGARD LIMITED
19-27 Gavinton Street
Muirend, Glasgow G44 3EF
Phone 0141 633 5933
Fax 0141 637 7219
Homepage www.supagard.co.uk
E-mail info@supagard.co.uk

Address enquiries to

Technical information info@supagard.co.uk
Safety Data Sheet www.supagard.co.uk/downloads

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

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

Aerosol 1: H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.
Skin Irrit. 2: H315 Causes skin irritation.
STOT SE 3: H336 May cause drowsiness or dizziness.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.

2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

F+, Extremely flammable - R 12: Extremely flammable.
Xi, Irritant - R 38: Irritating to skin.
N, Dangerous for the environment - R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 67: Vapours may cause drowsiness and dizziness.

2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

Labelling according to Regulation (EC) 1272/2008

Hazard pictograms



Signal word

DANGER

Contains:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic 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.
P280 Wear protective gloves / eye protection.
P284 [In case of inadequate ventilation] wear respiratory protection.
P260 Do not breathe vapours / spray.
P271 Use only outdoors or in a well-ventilated area.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER / doctor if you feel unwell.
P273 Avoid release to the environment.

2.3 Other hazards

Physico-chemical hazards

Risk of bursting.

Human health dangers

Danger of serious damage to health by prolonged exposure through inhalation.

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

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

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
20 - 30	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane EINECS/ELINCS: 921-024-6, ECB-Nr.: 01-2119475514-35-XXXX GHS/CLP: Flam. Liq. 2: H225 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Chronic 2: H411 EEC: F-Xn-N, R 11-38-51/53-65-67
15 - <25	Ethanol CAS: 64-17-5, EINECS/ELINCS: 200-578-6, EU-INDEX: 603-002-00-5, ECB-Nr.: 01-2119457610-43-XXXX GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 EEC: F, R 11
5 - <15	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated CAS: 93685-81-5, EINECS/ELINCS: 297-629-8, ECB-Nr.: 01-2119490725-29-XXXX GHS/CLP: Asp. Tox. 1: H304 - Flam. Liq. 3: H226 - Aquatic Chronic 4: H413 EEC: Xn, R 65-10-53-66
5 - <15	Alkanes, C9-12-iso CAS: 90622-57-4, EINECS/ELINCS: 923-037-2, ECB-Nr.: 01-2119471991-29-XXXX GHS/CLP: Flam. Liq. 3: H226 - Asp. Tox. 1: H304 - Aquatic Chronic 4: H413 EEC: Xn, R 10-53-65-66
1 - <10	Propane CAS: 74-98-6, EINECS/ELINCS: 200-827-9, EU-INDEX: 601-003-00-5 GHS/CLP: Flam. Gas 1: H220 - Press. Gas (*): H280 EEC: F+, R 12
1 - <5	Butane CAS: 106-97-8, EINECS/ELINCS: 203-448-7, EU-INDEX: 601-004-00-0, ECB-Nr.: 01-2119474691-32-XXXX GHS/CLP: Flam. Gas 1: H220 - Press. Gas (*): H280 EEC: F+, R 12
1 - <5	Isopropyl acetate CAS: 108-21-4, EINECS/ELINCS: 203-561-1, EU-INDEX: 607-024-00-6 GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336 EEC: F-Xi, R 11-36-66-67
1 - <5	n-Butyl acetate CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, ECB-Nr.: 01-2119485493-29-XXXX GHS/CLP: Flam. Liq. 3: H226 - STOT SE 3: H336 EEC: R 10-66-67
1 - <5	iso-Butane CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0 GHS/CLP: Flam. Gas 1: H220 - Press. Gas (*): H280 EEC: F+, R 12
<1	Cyclohexane CAS: 110-82-7, EINECS/ELINCS: 203-806-2, EU-INDEX: 601-017-00-1 GHS/CLP: Flam. Liq. 2: H225 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 EEC: F-Xn-N, R 11-38-50/53-65-67
<1	n-Hexane CAS: 110-54-3, EINECS/ELINCS: 203-777-6, EU-INDEX: 601-037-00-0, ECB-Nr.: 01-2119480412-44-XXXX GHS/CLP: Flam. Liq. 2: H225 - Repr. 2: H361f - Asp. Tox. 1: H304 - STOT RE 2: H373 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Chronic 2: H411 EEC: F-Xn-N-Rep.Cat. 3, R 11-38-48/20-51/53-62-65-67

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 and R-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Take off contaminated clothing and wash before reuse.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Seek medical advice immediately.
Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

Headache
Drowsiness
Vertigo
Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to the doctor.

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.
Bursting aerosols can be forcibly projected from a fire.

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

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 clothing.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Take up residues with absorbent material (e.g. sand).
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

Provide suitable vacuuming at the processing area.
Use only in well-ventilated areas.
Avoid spilling or spraying in enclosed areas.
Vapours can form an explosive mixture with air.
Keep away from all sources of ignition - Refrain from smoking.
Do not eat, drink, smoke or take drugs at work.
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
Use barrier skin cream.
Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.
Prevent penetration into the ground.
Do not store together with oxidizing agents.
Do not store together with food and animal food/diet.
Keep container in a well-ventilated place.
Protect from heat/overheating.

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)

Range [%]	Substance
5 - <15	Alkanes, C9-12-iso
	CAS: 90622-57-4, EINECS/ELINCS: 923-037-2, ECB-Nr.: 01-2119471991-29-XXXX
	Long-term exposure: 800 mg/m ³
20 - 30	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
	EINECS/ELINCS: 921-024-6, ECB-Nr.: 01-2119475514-35-XXXX
	Long-term exposure: 1200 mg/m ³
15 - <25	Ethanol
	CAS: 64-17-5, EINECS/ELINCS: 200-578-6, EU-INDEX: 603-002-00-5, ECB-Nr.: 01-2119457610-43-XXXX
	Long-term exposure: 1000 ppm, 1920 mg/m ³
1 - <5	n-Butyl acetate
	CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, ECB-Nr.: 01-2119485493-29-XXXX
	Long-term exposure: 150 ppm, 724 mg/m ³
	Short-term exposure (15-minute): 200 ppm, 966 mg/m ³
1 - <5	Isopropyl acetate
	CAS: 108-21-4, EINECS/ELINCS: 203-561-1, EU-INDEX: 607-024-00-6
	Short-term exposure (15-minute): 200 ppm, 849 mg/m ³
1 - <5	iso-Butane
	CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0
	Long-term exposure: 600 ppm, 1450 mg/m ³ , (Butane)
	Short-term exposure (15-minute): 750 ppm, 1810 mg/m ³
1 - <5	Butane
	CAS: 106-97-8, EINECS/ELINCS: 203-448-7, EU-INDEX: 601-004-00-0, ECB-Nr.: 01-2119474691-32-XXXX
	Long-term exposure: 600 ppm, 1450 mg/m ³
	Short-term exposure (15-minute): 750 ppm, 1810 mg/m ³
<1	n-Hexane
	CAS: 110-54-3, EINECS/ELINCS: 203-777-6, EU-INDEX: 601-037-00-0, ECB-Nr.: 01-2119480412-44-XXXX
	Long-term exposure: 20 ppm, 72 mg/m ³
<1	Cyclohexane
	CAS: 110-82-7, EINECS/ELINCS: 203-806-2, EU-INDEX: 601-017-00-1
	Long-term exposure: 100 ppm, 350 mg/m ³
	Short-term exposure (15-minute): 300 ppm, 1050 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

Range [%]	Substance / EC LIMIT VALUES
<1	n-Hexane
	CAS: 110-54-3, EINECS/ELINCS: 203-777-6, EU-INDEX: 601-037-00-0, ECB-Nr.: 01-2119480412-44-XXXX
	Eight hours: 20 ppm, 72 mg/m ³
<1	Cyclohexane
	CAS: 110-82-7, EINECS/ELINCS: 203-806-2, EU-INDEX: 601-017-00-1
	Eight hours: 200 ppm, 700 mg/m ³

DNEL

Range [%]	Substance
20 - 30	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
	worker, inhalative, Long-term - systemic effects: 2035 mg/m ³ .
	worker, dermal, Long-term - systemic effects: 773 mg/kg bw/d.
	general population, inhalative, Long-term - systemic effects: 608 mg/m ³ .

	general population, dermal, Long-term - systemic effects: 699 mg/kg bw/d.
	general population, oral, Long-term - systemic effects: 699 mg/kg bw/d.
15 - <25	Ethanol, CAS: 64-17-5
	Industrial, dermal, Long-term - systemic effects: 343 mg/kg bw/d.
	Industrial, inhalative, Acute - local effects: 1900 mg/m ³ .
	Industrial, inhalative, Long-term - systemic effects: 950 mg/m ³ .
	general population, inhalative, Long-term - systemic effects: 114 mg/m ³ .
	general population, oral, Long-term - systemic effects: 87 mg/kg bw/d.
	general population, dermal, Long-term - systemic effects: 206 mg/kg bw/d.
	general population, inhalative, Acute - local effects: 950 mg/m ³ .
1 - <5	n-Butyl acetate, CAS: 123-86-4
	Industrial, inhalative, Acute - systemic effects: 960 mg/m ³ .
	Industrial, inhalative, Long-term - systemic effects: 480 mg/m ³ .
	Industrial, inhalative, Long-term - local effects: 480 mg/m ³ .
	Industrial, inhalative, Acute - local effects: 960 mg/m ³ .
	general population, inhalative, Acute - systemic effects: 859,7 mg/m ³ .
	general population, inhalative, Acute - local effects: 859,7 mg/m ³ .
	general population, inhalative, Long-term - systemic effects: 102,34 mg/m ³ .
	general population, inhalative, Long-term - local effects: 102,34 mg/m ³ .
<1	n-Hexane, CAS: 110-54-3
	Industrial, inhalative, Long-term - systemic effects: 75 mg/m ³ .
	Industrial, dermal, Long-term - systemic effects: 11 mg/kg bw/day.
	general population, oral, Long-term - systemic effects: 4 mg/kg bw/day.
	general population, inhalative, Long-term - systemic effects: 16 mg/m ³ .
	general population, dermal, Long-term - systemic effects: 5,3 mg/kg bw/day.

PNEC

Range [%]	Substance
15 - <25	Ethanol, CAS: 64-17-5
	oral (food), 0,72 mg/kg.
	soil, 0,63 mg/kg.
	sediment (freshwater), 3,6 mg/kg.
	seawater, 0,79 mg/l.
	freshwater, 0,96 mg/l.
1 - <5	n-Butyl acetate, CAS: 123-86-4
	soil, 0,0903 mg/kg.
	sediment (seaater), 0,0981 mg/kg.
	sediment (freshwater), 0,981 mg/kg.
	sewage treatment plants (STP), 35,6 mg/l.
	seawater, 0,018 mg/l.
	freshwater, 0,18 mg/l.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. Butyl rubber, >480 min (EN 374).
Skin protection	light protective clothing
Other	Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.
Respiratory protection	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, combination filter A-P2. We recommend the use of a mask, type 3M 4251 or equivalent. In confined areas a mask must be worn.
Thermal hazards	none
Delimitation and monitoring of the environmental exposition	See SECTION 6+7.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	aerosol
Color	colourless
Odor	characteristic
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	insoluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	not applicable
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	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.

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

Reactions with strong oxidizing agents.

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

Flammable gases/vapours.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
1 - <5	Butane, CAS: 106-97-8 LC50, inhalative, Rat: 658 mg/L (IUCLID).
<1	Cyclohexane, CAS: 110-82-7 LD50, dermal, Rabbit: > 2000 mg/kg (IUCLID). LD50, oral, Rat: > 5000 mg/kg (IUCLID).
20 - 30	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane LD50, oral, Rat: > 5000 mg/kg (IUCLID). LD50, dermal, Rabbit: > 3160 mg/kg (IUCLID). LC50, inhalative, Rat: 25,2 mg/l 6h (IUCLID).
1 - <5	iso-Butane, CAS: 75-28-5 LC50, inhalative, Rat: 570000 ppm (IUCLID).
1 - <5	Isopropyl acetate, CAS: 108-21-4 LD50, oral, Rat: 6750 mg/kg bw (RTECS). LD50, dermal, Rabbit: > 20 g/l (IUCLID). LC50, inhalative, Rat: 50,6 mg/l/8h (IUCLID).
1 - <10	Propane, CAS: 74-98-6 LC50, inhalative, Rat: 658 mg/L (IUCLID).
15 - <25	Ethanol, CAS: 64-17-5 LD50, dermal, Rabbit: > 2000 mg/kg (OECD 402). LD50, oral, Rat: 10470 mg/kg (OECD 401). LC50, inhalative, Rat: 117-125 mg/l/4h (OECD 403). NOAEL, Rat: > 3000 mg/kg/d (24 month OECD 451).
1 - <5	n-Butyl acetate, CAS: 123-86-4 LD50, oral, Rat: 10760 mg/kg (OECD 423). LD50, dermal, Rabbit: >14112 mg/kg (OECD 402). LC50, inhalative, Rat: 23.4 mg/l (4h) (OECD 403).
<1	n-Hexane, CAS: 110-54-3 LD50, oral, Rat: 25000 mg/kg bw (GESTIS). LD50, dermal, Rabbit: 3000 mg/kg bw (IUCLID). LC50, inhalative, Rat: 169 mg/L (4h) (GESTIS).
5 - <15	Hydrocarbons, C4, 1,3-butadiene-free, polyimd., triisobutylene fraction, hydrogenated, CAS: 93685-81-5 LD50, dermal, Rat: >5000 mg/kg bw. LD50, oral, Rat: >5000 mg/kg bw. LC50, inhalative, Rat: >5 mg/L.

Serious eye damage/irritation	not determined
Skin corrosion/irritation	not determined
Respiratory or skin sensitisation	not determined
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	not determined
Reproduction toxicity	not determined
Carcinogenicity	not determined
General remarks	

Toxicological data of complete product are not available.
 The product was classified on the basis of the calculation procedure of the preparation directive.
 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.

SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
<1	Cyclohexane, CAS: 110-82-7
	LC50, (96h), fish: 93,0 - 117 mg/l (IUCLID).
	EC50, (48h), Daphnia magna: 3,78 mg/l (IUCLID).
20 - 30	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
	LC50, (96h), fish: 2,6 mg/l (IUCLID).
1 - <5	Isopropyl acetate, CAS: 108-21-4
	LC50, (48h), Leuciscus idus: 265 mg/l (Lit.).
	EC50, (24h), Daphnia magna: 4150 mg/l (IUCLID).
15 - <25	Ethanol, CAS: 64-17-5
	LC50, (96h), Oncorhynchus mykiss: 13000 mg/l (OECD 203).
	LC50, (48h), Daphnia magna: 12340 mg/l.
	EC50, (72h), Algae: 275 mg/l (OECD 201).
	EC50, (48h), Selenastrum capricornutum: 12900 mg/l (OECD 201).
1 - <5	n-Butyl acetate, CAS: 123-86-4
	LC50, (96h), Pimephales promelas: 18 mg/l (OECD 203).
	EC50, (72h), Desmodemus subspicatus: 647.7 mg/l.
	EC50, (48h), Daphnia magna: 44 mg/l.
	IC50, Bacteria: 356 mg/l (40 h).
	NOEC, Desmodemus subspicatus: 200 mg/l.
<1	n-Hexane, CAS: 110-54-3
	LC50, (96h), Pimephales promelas: 2,5 mg/L (GESTIS).
5 - <15	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated, CAS: 93685-81-5
	LC50, (96h), Pimephales promelas: >1,7 mg/L.
	EC50, (48h), Daphnia magna: >1,3 mg/L.

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

Accumulation in organisms is not expected.

12.4 Mobility in soil

not determined

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

The product was classified on the basis of the calculation procedure of the preparation directive.
 The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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

For recycling, consult manufacturer.
Coordinate disposal with the authorities if necessary.

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*
150104

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID UN 1950 AEROSOLS 2.1

- 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)

UN 1950 AEROSOLS 2.1

- Classification Code

5F

- Label



Marine transport in accordance with IMDG

UN 1950 Aerosols (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane)
2.1 - MARINE POLLUTANT

- EMS

F-D, S-U

- Label



- IMDG LQ

1 I

Air transport in accordance with IATA UN 1950 Aerosols, flammable 2.1

- Label



14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not determined

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EEC-REGULATIONS	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- VOC (1999/13/CE)	99 %

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 R-phrases (SECTION 3)

R 11: Highly flammable.
R 38: Irritating to skin.
R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 65: Harmful - may cause lung damage if swallowed.
R 67: Vapours may cause drowsiness and dizziness.
R 10: Flammable.
R 53: May cause long-term adverse effects in the aquatic environment.
R 66: Repeated exposure may cause skin dryness or cracking.
R 12: Extremely flammable.
R 36: Irritating to eyes.
R 48/20: Harmful - danger of serious damage to health by prolonged exposure through inhalation.
R 62: Possible risk of impaired fertility.
R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16.2 Hazard statements (SECTION 3)

H410 Very toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
H373 May cause damage to organs through prolonged or repeated exposure through inhalation.
H361f Suspected of damaging fertility.
H280 Contains gas under pressure; may explode if heated.
H220 Extremely flammable gas.
H413 May cause long lasting harmful effects to aquatic life.
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.
H336 May cause drowsiness or dizziness.
H315 Causes skin irritation.
H304 May be fatal if swallowed and enters airways.
H225 Highly flammable liquid and vapour.

16.3 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
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
ELINCS = European List of Notified Chemical Substances
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
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
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

16.4 Other information

Classification procedure

Aerosol 1: H222 Extremely flammable aerosol. (On basis of test data) H229 Pressurised container: May burst if heated. (On basis of test data)
Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (On basis of test data)

Modified position

SECTION 2 been added: H304 May be fatal if swallowed and enters airways.
SECTION 2 been added: P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
SECTION 2 been added: P284 [In case of inadequate ventilation] wear respiratory protection.
SECTION 2 been added: P280 Wear protective gloves / eye protection.
SECTION 2 been added: P260 Do not breathe vapours / spray.
SECTION 2 deleted: H319 Causes serious eye irritation.
SECTION 4 been added: Seek medical advice immediately.
SECTION 4 been added: Remove person to fresh air and keep comfortable for breathing.
SECTION 7 been added: After worktime and before work breaks the affected skin areas must be thoroughly cleaned.

Copyright: Chemiebüro®

