SAFETY DATA SHEET

XILICON

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	04.01.2017

1.1. Product identifier

Product name	XILICON
Article no.	T201012

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

Use of the substance / preparation	Lubricant.

1.3. Details of the supplier of the safety data sheet

Downstream user

Company name	Relekta AS
Office address	Innspurten 1A
Postal address	Postboks 6169 Etterstad
Postcode	0663
City	Oslo
Country	Norge
Telephone number	+47 22 66 04 00
Fax	+47 22 66 04 01
Email	relekta@relekta.no
Website	www.relekta.no
Enterprise No.	NO 831 881 372

1.4. Emergency telephone number

Emergency telephone	Telephone number: Ring 112- begär Giftinformation Description: Sweden Telephone number: 2259 1300 Description: Norway: Giftinformasjonen:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Aerosol 1; H222 Aerosol 1; H229 Aquatic Chronic 3; H412
Substance / mixture hazardous properties	Extremely flammable aerosol. Pressurized container: May explode when heated. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictograms (CLP)

Signal word	Danger
Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P102 Keep out of reach of children. 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. P273 Avoid release to the environment. P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50 °C / 122°F. P501 Dispose of contents / container to approved depot

2.3. Other hazards

PBT / vPvB	The chemical contains no PBT or vPvB substances.
Description of hazard	Vapours may be ignited by a spark, a hot surface or an ember. Vapours are heavier than air and may travel along the floor and in the bottom of containers.
Hazard description, general	Aerosol cans may explode in a fire.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Pentane	CAS No.: 109-66-0 EC No.: 203-692-4 REACH Reg. No.: 01-2119459286-30	Flam. Liq. 2; H225 Asp. tox 1; H304 STOT SE3; H336 Aquatic Chronic 2; H411	≥ 2,5 < 10 %
Hydrocarbons, C6, isoalkanes, <5% n-hexane	EC No.: 931-254-9 REACH Reg. No.: 01-2119484651-34	Flam. Liq. 2; H225 Asp. tox 1; H304 STOT SE3; H336	≥ 2,5 < 5 %

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane		Flam. Liq. 2; H225 Asp. tox 1; H304 STOT SE3; H336 Aquatic Chronic 2; H411	≥ 2,5 < 5 %
Propellant:			
Butane	CAS No.: 106-97-8 EC No.: 203-448-7 REACH Reg. No.: 01-2119474691-32	Flam gas 1; H220 Press. Gas; H280	≥ 20 < 30 %
Substance comments	See section 16 for explanation of hazard statements (H) listed above.		

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Emergency telephone number: see section 1.4.
Inhalation	Remove victim immediately from source of exposure. Fresh air and rest. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.
Ingestion	Not likely. Give some cream or vegetable oil. Do not induce vomiting. Seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Acute symptoms and effects	Solvent vapours are hazardous and may cause nausea, sickness and headaches. Abuse can cause shortness of breath and cardiac arrhythmia.

4.3. Indication of any immediate medical attention and special treatment needed

Other information	Treat symptomatically. No specific information from the manufacturer.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Dry-powder, carbon dioxide (CO2), water mist, alcohol resistant foam.
Improper extinguishing media	Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Extremely flammable aerosol. Aerosol containers can explode when heated, due to excessive pressure build-up. Can form explosive gas-air mixtures. Vapours are heavier than air and may spread near ground to sources of ignition.
Hazardous combustion products	May include, but is not limited to: Carbon dioxide (CO2). Carbon monoxide (CO). Unspecified organic compounds.

5.3. Advice for firefighters

Personal protective equipment	Use compressed air equipment when the chemical is involved in fire. In case of evacuation, an approved protection mask should be used. See also section 8.
Other information	If there is no risk involved, move the containers to a safe place. If not possible, cool with water from a safe position. Extinguishing water must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Keep away from sources of ignition - No smoking.
Personal protection measures	Provide adequate ventilation. Avoid inhalation of vapours and aerosols and contact with skin and eyes. Use protective equipment as referred to in section 8.

6.2. Environmental precautions

Environmental precautionary measures	Do not allow to enter into sewer, water system or soil.

6.3. Methods and material for containment and cleaning up

Cleaning method	Aerosol cans are collected mechanically. Content of the spray can: Absorb in vermiculite, dry sand or earth and place into containers. Deliver as hazardous waste according to section 13. Flush with plenty of water to clean spillage area.

6.4. Reference to other sections

Other instructions	See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Observe good laboratory hygiene practices. Provide adequate ventilation. Avoid inhalation of aerosols. Avoid contact with eyes and skin. Use protective equipment as referred to in section 8.

Protective safety measures

Safety measures to prevent fire	Do not use near naked flames or glowing materials. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Use explosion-proof electrical/ventilating/lighting/.../equipment.
Advice on general occupational hygiene	Do not eat, drink or smoke during work. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in a cool, well-ventilated place. Flammable compressed gas storage.
Special risks and properties	Pressurized container. Protect from sunlight and do not expose to temperatures

	exceeding 50°C. Do not pierce or burn, even when empty. The vapours are heavier than air and will spread along the floor. The vapours may form explosive mixtures with air.

Conditions for safe storage

Technical measures and storage conditions	Ventilation at floor level.
Packaging compatibilities	Store in original container.
Advice on storage compatability	Keep away from: Oxidizing agents.

7.3. Specific end use(s)

Specific use(s)	See section 1.2.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
NORWEGIAN:			
Pentane	CAS No.: 109-66-0 EC No.: 203-692-4 REACH Reg. No.: 01-2119459286-30	Limit value (8 h) : 250 ppm Limit value (8 h) : 750 mg/m³	
Hydrocarbons, C6, isoalkanes, <5% n-hexane (Extraction gasoline (unspecified))	EC No.: 931-254-9 REACH Reg. No.: 01-2119484651-34	Limit value (8 h) : 100 ppm Limit value (8 h) : 500 mg/m³	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane (Extraction gasoline (unspecified))		Limit value (8 h) : 100 ppm Limit value (8 h) : 500 mg/m³	
Butane	CAS No.: 106-97-8 EC No.: 203-448-7 REACH Reg. No.: 01-2119474691-32	Limit value (8 h) : 250 ppm Limit value (8 h) : 600 mg/m³	
SWEDISH:			
Pentan	CAS No.: 109-66-0 EC No.: 203-692-4 Index No.: 601-006-00-1	Limit value (8 h) : 600 ppm Limit value (8 h) : 1800 mg/m³ **Limit value (short term)** Value: 750 ppm **Limit value (short term)** Value: 2000 mg/m³	
Hydrocarbons, C6, isoalkanes, <5% n-hexane (gasoline, industry (type hexane))	EC No.: 931-254-9 REACH Reg. No.: 01-2119484651-34	Limit value (8 h) : 50 ppm Limit value (8 h) : 180 mg/m³ **Limit value (short term)** Value: 75 ppm **Limit value (short term)** Value: 250 mg/m³	
Hydrocarbons, C6-C7,		Limit value (8 h) : 50 ppm	

n-alkanes, isoalkanes, cyclic, <5% n-hexane (gasoline, industry (type hexane))	Limit value (8 h) : 180 mg/m³ **Limit value (short term)** Value: 75 ppm **Limit value (short term)** Value: 250 mg/m³

Substance	Pentane
DNEL	**Group:** Consumer **Route of exposure:** Long term (repeated) - Dermal - Systemic effect **Value:** 214 mg/kg bw/d **Group:** Worker **Route of exposure:** Long term (repeated) - Inhalation - Systemic effect **Value:** 3000 mg/m³ **Group:** Worker **Route of exposure:** Long term (repeated) - Dermal - Systemic effect **Value:** 432 mg/kg bw/d **Group:** Consumer **Route of exposure:** Long term (repeated) - Inhalation - Systemic effect **Value:** 643 mg/m³ **Group:** Consumer **Route of exposure:** Long term (repeated) - Oral - Systemic effect **Value:** 214 mg/kg bw/d
PNEC	**Route of exposure:** Freshwater sediments **Value:** 1,2 mg/kg dw **Route of exposure:** Sewage treatment plant STP **Value:** 3600 µg/l **Route of exposure:** Saltwater **Value:** 230 µg/l **Route of exposure:** Water **Value:** 880 µg/l **Route of exposure:** Freshwater **Value:** 230 µg/l **Route of exposure:** Soil **Value:** 0,55 mg/kg dw **Route of exposure:** Saltwater sediments **Value:** 1,2 mg/kg dw

Substance	Hydrocarbons, C6, isoalkanes, <5% n-hexane (Extraction gasoline (unspecified))
DNEL	**Group:** Consumer **Route of exposure:** Long term (repeated) - Inhalation - Systemic effect **Value:** 1131 mg/m³ **Group:** Consumer **Route of exposure:** Long term (repeated) - Oral - Systemic effect **Value:** 1301 mg/kg bw/d

	Group: Consumer **Route of exposure:** Long term (repeated) - Dermal - Systemic effect **Value:** 1377 mg/kg bw/d **Group:** Worker **Route of exposure:** Long term (repeated) - Dermal - Systemic effect **Value:** 13964 mg/kg bw/d **Group:** Worker **Route of exposure:** Long term (repeated) - Inhalation - Systemic effect **Value:** 5306 mg/m³
Substance	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane (Extraction gasoline (unspecified))
DNEL	**Group:** Worker **Route of exposure:** Long term (repeated) - Dermal - Systemic effect **Value:** 13964 mg/kg bw/d **Group:** Consumer **Route of exposure:** Long term (repeated) - Oral - Systemic effect **Value:** 1301 mg/kg bw/d **Group:** Consumer **Route of exposure:** Long term (repeated) - Dermal - Systemic effect **Value:** 1377 mg/kg bw/d **Group:** Consumer **Route of exposure:** Long term (repeated) - Inhalation - Systemic effect **Value:** 1131 mg/m³ **Group:** Worker **Route of exposure:** Long term (repeated) - Inhalation - Systemic effect **Value:** 5306 mg/m³
Other Information about threshold limit values	References (laws/regulations): Norwegian and Swedish work exposure limits Explanation of the notations: V = Indicative short term limit

8.2. Exposure controls

Limitation of exposure on workplace	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. The personal protective equipment must be CE-marked and the latest version of the standards shall be used. The protective equipment and the specified standards recommended below are only suggestions, and should be selected on advice from the supplier of such equipment. A risk assessment of the work place/work activities (the actual risk) may lead to other control measures. The protection equipments suitability and durability will depend on application.

Respiratory protection

Respiratory protection	In case of inadequate ventilation: Use respiratory equipment with combination filter, type A/P2.
Reference to relevant standard	EN 14387 (Respiratory protective devices. Gas filter(s) and combined filter(s).

	Requirements, testing, marking). EN 143 (Respiratory protective devices. Particle filters. Requirements, testing, marking).

Hand protection

Hand protection	Use chemical resistant gloves. The recommended material of gloves is recommended after a study of the single components in the chemical. Glove thickness must be chosen in consultation with the glove supplier, who can inform about the breakthrough time for the glove.
Reference to relevant standard	BS-EN 374 (Protective gloves against chemicals and micro-organisms). BS-EN 420 (Protective gloves. General requirements and test methods).
Suitable materials	Multi-layer material (e.g. 4H, Saranex). P.T.F.E (Teflon). Nitrile.
Breakthrough time	Value: No specific information from the manufacturer.
Thickness of glove material	Value: No specific information from the manufacturer.

Eye / face protection

Eye protection	Wear approved, tight fitting safety glasses where splashing is probable.
Reference to relevant standard	EN 166 (Personal eye-protection. Specifications).

Skin protection

Skin protection (except hands)	Wear appropriate clothing to prevent reasonably probable skin contact.

Appropriate environmental exposure control

Environmental exposure controls	Do not allow to enter into sewer, water system or soil. See also section 12.

Other information

Other information	Eye wash facilities should be available when handling this chemical.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Aerosol.
Colour	Colourless.
Odour	Characteristic.
Odour limit	Comments: Not specified by the manufacturer.
pH	Status: In delivery state Comments: Not relevant.
Melting point / melting range	Comments: Not specified by the manufacturer.
Boiling point / boiling range	Comments: Not specified by the manufacturer.
Flash point	Comments: Not specified by the manufacturer.
Evaporation rate	Comments: Not specified by the manufacturer.
Flammability	Extremely flammable aerosol.

Explosion limit	Value: 1,5 - 11,2 vol%
Vapour pressure	Value: > 1200 hPa Comments: Applies for the pressure of the chemical in the aerosol can. Temperature: 20 °C
Vapour density	Value: > 1 Reference gas: Air
Relative density	Value: 0,6 Comments: Absolute density: 600 kg/m³ (20°C) Temperature: 20 °C
Solubility in water	Insoluble.
Partition coefficient: n-octanol/ water	Comments: Not relevant for a mixture.
Auto-ignition temperature	Comments: Not specified by the manufacturer.
Decomposition temperature	Comments: Not specified by the manufacturer.
Viscosity	Comments: Not specified by the manufacturer.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2. Other information

Physical hazards

Content of VOC	Value: 27 - 50 %

Other physical and chemical properties

Comments	No further information is available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Heating may cause a fire or explosion. Vapors may form explosive mixtures with air.

10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal conditions. Responds, in part violently, with substances specified in section 10.5.

10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Do not expose to temperatures above 50 °C.

10.5. Incompatible materials

Materials to avoid	Oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal conditions. See also section 5.2.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Other toxicological data	All values stated in section 11, are obtained from the producer. There are stated more test results by the producer. The results are negative except for those tests that support the already given classification of the substances (see section 3).

Toxicological data for substances

Substance	Pentane
Acute toxicity	**Type of toxicity:** Acute **Effect tested:** LD50 **Route of exposure:** Oral **Value:** > 2000 mg/kg **Animal test species:** Rat **Test reference:** OECD 401 **Type of toxicity:** Acute **Effect tested:** LC50 **Route of exposure:** Inhalation. **Duration:** 4h **Value:** 20 mg/l **Animal test species:** Rat
Substance	Hydrocarbons, C6, isoalkanes, <5% n-hexane
Acute toxicity	**Type of toxicity:** Acute **Effect tested:** LD50 **Route of exposure:** Oral **Value:** > 16750 mg/kg **Animal test species:** Rat **Type of toxicity:** Acute **Effect tested:** LD50 **Route of exposure:** Dermal **Value:** > 3350 mg/kg **Animal test species:** Rabbit **Type of toxicity:** Acute **Effect tested:** LC50 **Route of exposure:** Inhalation. **Duration:** 4 h **Value:** 259354 mg/m³ **Animal test species:** Rat **Comments:** Damp

Substance	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane
Acute toxicity	**Type of toxicity:** Acute **Effect tested:** LD50 **Route of exposure:** Oral **Value:** > 16750 mg/kg **Animal test species:** Rat **Test reference:** OECD 401 **Type of toxicity:** Acute **Effect tested:** LD50 **Route of exposure:** Dermal **Duration:** 24h **Value:** > 3350 mg/kg **Animal test species:** Rat **Test reference:** OECD 402 **Type of toxicity:** Acute **Effect tested:** LC50 **Route of exposure:** Inhalation. **Duration:** 4h **Value:** 259354 mg/l **Animal test species:** Rat **Test reference:** OECD 403 **Comments:** Damp

Acute toxicity, Mixture estimate

Assessment of acute toxicity, classification	Based on available data, the classification criteria are not met.

Potential acute effects

Inhalation	Vapours may cause drowsiness and dizziness. Solvent vapors may be harmful and overexposure may cause headaches, nausea, vomiting, and intoxication. Abuse can cause shortness of breath and cardiac arrhythmia.
Skin contact	The chemical may irritate the skin. Symptoms such as redness and itching of the skin may occur.
Eye contact	May irritate and cause redness and pain.
Ingestion	Not likely, due to the packaging. Ingestion of significant amounts may cause nausea and vomiting.
Assessment of skin corrosion / irritation, classification	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Assessment of eye damage or irritation, classification	Based on available data, the classification criteria are not met.

Delayed effects / repeated exposure

Sensitisation	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data the classification criteria are not met.

Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity, other information	Based on available data, the classification criteria are not met.
Mutagenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity	Harmful to aquatic life with long lasting effects.
Aquatic, comments	All values stated in section 12, are obtained from the producer.

Toxicological data for substances

Substance	Pentane
Aquatic toxicity, fish	**Value:** 4,26 mg/l **Test duration:** 96h **Species:** Oncorhynchus mykiss **Method:** LC50 **Test reference:** OECD 203 **Comments:** NOEL (Oncorhynchus mykiss, 28d): 6,165 mg/l
Aquatic toxicity, algae	**Value:** 10,7 mg/l **Test duration:** 72h **Species:** Scenedesmus sp. **Method:** EC50 **Test reference:** OECD 201
Aquatic toxicity, crustacean	**Value:** 2,7 mg/l **Test duration:** 48h **Species:** Daphnia magna **Method:** EC50 **Comments:** NOEL (Daphnia magna, 21d): 10,76 mg/l
Known or predicted distribution to environmental compartments	Mackay Level III: Air: 97,7%, Bioata: 0%, Sediment: 0,5%, Soil: 0%, Water: 1,8%
Mobility	Log Koc: 2,9 (QSAR)
Biodegradability	**Value:** 87 % **Method:** OECD 301F: Manometric Respirometry Test **Test period:** 28d
Substance	Hydrocarbons, C6, isoalkanes, <5% n-hexane
Aquatic toxicity, fish	**Value:** 18,27 mg/l **Test duration:** 96 h **Species:** Oncorhynchus mykiss **Method:** LL50
Aquatic toxicity, algae	**Value:** 55 mg/l **Test duration:** 72 h **Species:** Pseudokirchneriella supcapitata **Method:** EL50
Aquatic toxicity, crustacean	**Value:** 31,9 mg/l

	Test duration: 48 h **Species:** Daphnia magna **Method:** EL50
Biodegradability	**Value:** 81 % **Method:** OECD 301F **Test period:** 28 d
Substance	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane
Aquatic toxicity, fish	**Value:** 12 mg/l **Test duration:** 96h **Species:** Oncorhynchus mykiss **Method:** LL50 **Test reference:** OECD 203
Aquatic toxicity, algae	**Value:** 55 mg/l **Test duration:** 72h **Species:** Pseudokirchneriella subcapitata **Method:** EL50 **Test reference:** OECD 201
Aquatic toxicity, crustacean	**Value:** 3 mg/l **Test duration:** 48h **Species:** Daphnia magna **Method:** EL50 **Test reference:** OECD 202
Other ecotoxicological information, fish	NOELR: 4,086 mg/l. Exp. time: 28 d. Species: Oncorhynchus mykiss. Method: QSAR; Growth rate.
Other ecotoxicological information, crustaceans	NOELR: 7,138 mg/l. Exp. time: 21 d. Species: Daphnia magna. Method: QSAR; Reproduction.
Aquatic, comments	Micro-organisms EC50: 70,68 mg/l. Exp. time: 48 h. Species: Tetrahymena pyriformis. Method: QSAR; Growth rate.
Known or predicted distribution to environmental compartments	Mackay Level III. Fraktion air: 97 %, fraktion biota: 0 %, fraktion sediment: 1 %, fraktion soil: 0,7 %, fraktion water: 1,5 %.
Biodegradability	**Value:** 98 % **Method:** OECD 301F: Manometric Respirometry test **Test period:** 28d

12.2. Persistence and degradability

Persistence and degradability, comments	Contain substance(s) which is considered readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential	Contains components which have bioaccumulative potential.

12.4. Mobility in soil

Mobility	Insoluble in water. Contains components that adsorb into soil. Contains component(s) with the potential for mobility in soil.

12.5. Results of PBT and vPvB assessment

PBT assessment results	The chemical contains no PBT-substances.
vPvB evaluation results	The chemical contains no vPvB substances.

12.6. Other adverse effects

Other adverse effects, comments	Danger of drinking water pollution (ground water). Do not allow to enter into sewer, water system or soil. The chemical contains no substances which are known to contribute to the greenhouse effect.
Ozone depletion potential	Comments: The chemical contains no substances classified as hazardous to the ozone layer.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Disposed of as hazardous waste by approved contractor. The waste code (EWC-Code) is intented as a guide. The code must be chosen by the user, if the use differs from the one mentioned below.
Product classified as hazardous waste	Yes
Packaging classified as hazardous waste	Yes
EWC waste code	EWC: 16 05 04 gases in pressure containers (including halons) containing dangerous substances
Other information	Do not empty into drains.

SECTION 14: Transport information

14.1. UN number

ADR/RID/ADN	1950
IMDG	1950
ICAO/IATA	1950

14.2. UN proper shipping name

ADR/RID/ADN	AEROSOLS
IMDG	AEROSOLS
ICAO/IATA	AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es)

ADR/RID/ADN	2.1
IMDG	2.1
ICAO/IATA	2.1

14.4. Packing group

Comments	Not relevant.

14.5. Environmental hazards

IMDG Marine pollutant	No

14.6. Special precautions for user

EmS	F-D, S-U

14.7. Maritime transport in bulk according to IMO instruments

Pollution category	Not relevant.

ADR/RID Other information

Tunnel restriction code	(D)

SECTION 15: Regulatory information

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

Restriction of chemicals according to Annex XVII (REACH)	Contains substance(s) listed in REACH Annex XVII. The restriction is not relevant to this mixture and use.
References (laws/regulations)	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments. Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH Regulation), with later amendments. Norwegian regulations on waste. no. 930/2004, from the Ministry of Environment. Dangerous Goods regulations Bekendtgørelse nr.844 - Aerosoler.

15.2. Chemical safety assessment

Chemical safety assessment performed	No

SECTION 16: Other information

R-phrases	
Supplier's notes	The information contained in this SDS must be made available to all those who handle the product.
List of relevant H-phrases (Section 2 and 3)	H412 Harmful to aquatic life with long lasting effects. H280 Contains gas under pressure; may explode if heated. H304 May be fatal if swallowed and enters airways. H222 Extremely flammable aerosol. H336 May cause drowsiness or dizziness. H220 Extremely flammable gas. H225 Highly flammable liquid and vapour. H229 Pressurised container: May burst if heated. H411 Toxic to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Aerosol 1; H222; Aquatic Chronic 3; H412; Aerosol 1; H229;
Key literature references and sources for data	Suppliers Safety data sheet dated: 09.07.2015
Abbreviations and acronyms used	EWC: European Waste Code (a code from the EU's common classification system for waste) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative LD50: Lethal dose, is the amount of a substance given to a group of test animals, which causes the death of 50%. LC50: Median concentration lethal to 50% of a test population. LL50: Lethal Loading rate. The effective concentration of substance that causes 50% of the maximum response for poorly water soluble substances. EC50: The effective concentration of substance that causes 50% of the maximum response NOEL: No Obserced Effect Level. The highest tested dose or exposure level at which, in a study, no statistically significant effect is observed in the exposed population compared with an appropriate control group. NOELR: Ingen observerbar effektbelastning (No Observable Effect Loading Rate) PNEC: Predicted No Effect Concentration DNEL: Derived No Effect Level VOC: Volatile Organic Compounds Koc: The adsorption coefficient normalized to the organic carbon content of the soil, is an indicator of the binding capacity of a chemical on organic matter of soil and sewage sludge. OECD: Organisation for Economic Cooperation and Development. ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road RID: The Regulations concerning the International Carriage of Dangerous Goods by Rail IMDG: The International Maritime Dangerous Goods Code ICAO: The International Civil Aviation Organisation IATA: The International Air Transport Association
Information added, deleted or revised	New Safety Data Sheet.
Checking quality of information	This SDS is quality controlled by Kiwa Teknologisk Institutt in Norway, certified according to the Quality Management System requirements specified in ISO 9001:2008.
Version	1
Prepared by	Kiwa Teknologisk Institutt /Irene S. Sortland.