



SAFETY DATA SHEET

This safety data sheet complies with the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Issue Date 2001 04 18

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Version 11.21

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code SKEU AERO
Product Name SAILKOTE EU AEROSOL

Pure substance/mixture Mixture

Contains Dimethyl Ether, Heptane (n-), Isobutane, Propane

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

Recommended Use Dry lubricant
Aerosol
Consumer use

Uses advised against

1.3. Details of the supplier of the safety data sheet

Manufacturer

McGee Industries, Inc.
9 Crozerville Rd
P.O. Box 2425
Aston, PA 19014
United States
Telephone: (01) 1-610-459-1890
Telefax: (01) 1-610-459-9538

For further information, please contact

E-mail address info@mclube.com

1.4. Emergency telephone number

Emergency Telephone CHEMTREC: (01) 1-703-527-3887

Emergency Telephone - §45 - (EC)1272/2008	
Europe	112
Austria	Euro-Notruf: 112 Rettung: 144 Ärzte-Funkdienst: 141 VIZ Notruf-Telefon: + 43 1 406 43 43
Belgium	Belgisch Antigifcentrum: 070 245 245
Denmark	Giftlinjen: 82 12 12 12
Finland	Giftinformationscentralen: 09 471 977

France	numéro ORFILA (INRS): + 33 (0)1 45 42 59 59
Spain	Solo emergencias toxicológicas: + 34 91 562 04 20
Czech Republic	Národní středisko pro otravu jedy: +420 224 919 293, +420 224 915 402
Hungary	Információs szolgálat akút mérgezés esetén: (06-80) 201-199

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This information is offered in good faith based on data available to us that we believe to be true and accurate

Aspiration toxicity	Category 1 H304
Skin corrosion/irritation	Category 2 H316
Serious eye damage/eye irritation	Category 2 H319
Specific target organ toxicity (single exposure)	Category 3 H336
Acute aquatic toxicity	Category 2 H401
Chronic aquatic toxicity	Category 2 H411
Flammable Aerosols	Category 1 H222
Gases under pressure	Compressed gas H229

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

Full text of R-phrases: see section 16

Hazard symbols

F - Highly flammable

N - Dangerous for the environment

R-code(s)

R11, R66, R67, R51/53

2.2. Label elements

Product identifier

Contains Dimethyl Ether, Heptane (n-), Isobutane, Propane



Signal word

Danger

Hazard statements

H222 - Extremely flammable aerosol

H229 - Pressurized container: May burst if heated

H304 - May be fatal if swallowed and enters airways

H316 - Causes mild skin irritation

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H401 - Toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

EUH066 - Repeated exposure may cause skin dryness or cracking

Precautionary Statements - EU (§28, 1272/2008)

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P210 - Keep away from heat/sparks/open flames/hot surfaces. - NO SMOKING

P211 - Do not spray on an open flame or other ignition source

P251 - Pressurized container: Do not pierce or burn, even after use
 P261 - Avoid breathing vapors/spray
 P264 - Wash hands thoroughly after handling
 P270 - Do not eat, drink or smoke when using this product
 P271 - Use only outdoors or in a well-ventilated area
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell
 P332 + P313 - If skin irritation occurs: Get medical advice/attention
 P337 + P313 - If eye irritation persists: Get medical advice/attention
 P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
 P405 - Store locked up
 P501 - Dispose of contents/container in accordance with national regulations

2.3. Other hazards

Prolonged exposure may cause chronic effects.

Irritating to eyes, respiratory system and skin.

Prolonged skin contact may defat the skin and produce dermatitis.

May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

Wash hands thoroughly after handling.

Do not smoke. Do not contaminate tobacco products. The thermal decomposition vapours of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans, especially when smoking tobacco.

Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal

Do not puncture or burn aerosol can, even after use

When operating continuously for long periods, the aerosol container can become very cold. Care should be taken to avoid skin burns.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature

Fluoropolymer dispersion. Aerosol.

Component Information:

Chemical Name	EC No.	CAS No.	Weight-%	Classification according to Directive 67/548/EEC or 1999/45/EC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Dimethyl ether	204-065-8	115-10-6	25.0-35.0	F+; R12	Flam. Gas 1 (H220) Press. Gas (H280)	01-2119472128-37
Heptane (n-)	205-563-8	142-82-5	15.0-25.0	F; R11 Xi; R38 N; R50/53 Xn; R65 R67	Skin Irrit. 2; (H315) STOT SE 3; (H336) Asp. Tox. 1; (H304) Aquatic Acute 1; (H400) Aquatic Chronic 1; (H410) Flam. Liq. 2; (H225)	01-2119457603-38
Isobutane	200-857-2	75-28-5	10.0-20.0	F+; R12	Flam. Gas 1; (H220) Press. Gas; (H280)	01-2119485395-27
Propane	200-827-9	74-98-6	10.0-20.0	F+; R12	Flam. Gas 1; (H220) Press. Gas; (H280)	01-2119486944-21
Acetone	200-662-2	67-64-1	5.0-15.0	F; R11 Xi; R36 R66 R67	Eye Irrit. 2 (H319) (EUH066) STOT SE 3 (H336) Flam. Liq. 2 (H225)	01-2119471330-49

Propan-2-ol	200-661-7	67-63-0	5.0-10.0	F;R11, Xi;R36, R67	Eye Irrit. 2, (H319) STOT SE 3, (H336) Flam. Liq. 2, (H225) [Asp. Tox. 2, (H305)]	01-2119457558-25
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Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

Additional information

Amounts listed are typical and do not represent a specification. Remaining components are proprietary, nonhazardous, and/ or present at amounts below reportable limits.

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

The monomers constituting the polymers present in the product are REACH registered

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice	Use first aid treatment according to the nature of the injury. Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt, seek medical advice.
Inhalation	Remove from exposure, lie down. Artificial respiration and/or oxygen may be necessary. If symptoms persist, call a physician.
Skin contact	Wash off immediately with soap and plenty of water. Take off contaminated clothing. Wash contaminated clothing before reuse. If symptoms persist, call a physician.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Ingestion	Never give anything by mouth to an unconscious person. Clean mouth with water. Do NOT induce vomiting without medical advice. Potential for aspiration if swallowed. Call a physician immediately.
Self-protection of the first aider	First aider: Pay attention to self-protection. Remove all sources of ignition. Use personal protection recommended in Section 8.

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

Symptoms Drowsiness. Dizziness.

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

Note to physicians Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Water spray (fog). Carbon dioxide (CO₂). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire

5.2. Special hazards arising from the substance or mixture

May be ignited by heat, sparks or flames. Vapors may form explosive mixture with air. Vapors may travel to source of ignition and flash back. Flash back possible over considerable distance. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Contents under pressure. Aerosol cans may explode in a fire. Heating above 260°C may cause formation of potentially toxic substances.

Hazardous combustion products Carbon oxides. Fluorinated compounds.

5.3. Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Keep away from sources of ignition. Prevent fire fighting water from entering surface water or groundwater. Cool containers with spray water from a safe distance.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protection recommended in Section 8. Evacuate personnel to safe areas. Remove all sources of ignition. Take precautionary measures against static discharges. Extremely slippery when spilled.

See also Section 12.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and material for containment and cleaning up

Methods for containment

Dike far ahead of liquid spill for later disposal.

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

6.4. Reference to other sections

See Section 8 for more information. See Section 13 for more information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Contents under pressure. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Do not smoke. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Use personal protection recommended in Section 8.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly after handling. Do not smoke while using nor contaminate tobacco products.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Protect from sunlight. Store at temperatures not exceeding 50 °C/ 122 °F. Keep away from heat, sparks, flame and other sources

of ignition (i.e., pilot lights, electric motors and static electricity).

7.3. Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits

Components With Workplace Control Parameters:

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Dimethyl ether 115-10-6	TWA 1000 ppm TWA 1920 mg/m ³	TWA: 400 ppm TWA: 766 mg/m ³ STEL: 500 ppm STEL: 958 mg/m ³	TWA: 1000 ppm TWA: 1920 mg/m ³	TWA: 1000 ppm TWA: 1920 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³
Heptane (n-) 142-82-5	TWA 500 ppm TWA 2085 mg/m ³	TWA: 500 ppm TWA: 2085 mg/m ³ STEL: 1500 ppm STEL: 6255 mg/m ³	TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	TWA: 500 ppm TWA: 2085 mg/m ³	TWA: 500 ppm TWA: 2100 mg/m ³
Isobutane 75-28-5	-	-	-	TWA: 1000 ppm	TWA: 1000 ppm TWA: 2400 mg/m ³
Propane 74-98-6	-	-	-	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m ³
Acetone 67-64-1	TWA 500 ppm TWA 1210 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³ STEL: 1500 ppm STEL: 3620 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³ STEL: 1000 ppm STEL: 2420 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³	TWA: 500 ppm TWA: 1200 mg/m ³
Propan-2-ol 67-63-0	-	TWA: 400 ppm TWA: 999 mg/m ³ STEL: 500 ppm STEL: 1250 mg/m ³	STEL: 400 ppm STEL: 980 mg/m ³	TWA: 200 ppm TWA: 500 mg/m ³ STEL: 400 ppm STEL: 1000 mg/m ³	TWA: 200 ppm TWA: 500 mg/m ³
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Dimethyl ether 115-10-6	TWA: 1000 ppm TWA: 1920 mg/m ³	TWA: 1000 ppm TWA: 1920 mg/m ³	TWA: 950 mg/m ³ STEL: 1500 mg/m ³	TWA: 1000 ppm TWA: 2000 mg/m ³	TWA: 1000 ppm TWA: 1920 mg/m ³
Heptane (n-) 142-82-5	TWA: 500 ppm TWA: 2085 mg/m ³	TWA: 500 ppm TWA: 2085 mg/m ³ STEL: 500 ppm	TWA: 1200 mg/m ³ STEL: 1600 mg/m ³	TWA: 300 ppm TWA: 1200 mg/m ³ STEL: 500 ppm STEL: 2100 mg/m ³	TWA: 200 ppm TWA: 820 mg/m ³
Isobutane 75-28-5	-	TWA: 1000 ppm	-	TWA: 800 ppm STEL: 1000 ppm STEL: 2400 mg/m ³	-
Propane 74-98-6	-	TWA: 1000 ppm	-	TWA: 800 ppm TWA: 1500 mg/m ³ STEL: 1100 ppm STEL: 2000 mg/m ³	TWA: 1000 ppm TWA: 1800 mg/m ³
Acetone 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³ STEL: 750 ppm	TWA: 1210 mg/m ³ STEL: 2420 mg/m ³	TWA: 500 ppm TWA: 1200 mg/m ³ STEL: 630 ppm STEL: 1500 mg/m ³	TWA: 250 ppm TWA: 600 mg/m ³
Propan-2-ol 67-63-0	-	TWA: 200 ppm STEL: 400 ppm	-	TWA: 200 ppm TWA: 500 mg/m ³ STEL: 250 ppm STEL: 620 mg/m ³	TWA: 200 ppm TWA: 490 mg/m ³
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Dimethyl ether 115-10-6	TWA: 1000 ppm TWA: 1910 mg/m ³ STEL 2000 ppm STEL 3820 mg/m ³	TWA: 1000 ppm TWA: 1910 mg/m ³	TWA: 1000 mg/m ³	TWA: 200 ppm TWA: 384 mg/m ³ STEL: 250 ppm STEL: 480 mg/m ³	TWA: 1000 ppm TWA: 1920 mg/m ³ STEL: 3000 ppm STEL: 5760 mg/m ³
Heptane (n-) 142-82-5	TWA: 500 ppm TWA: 2000 mg/m ³ STEL 2000 ppm STEL 8000 mg/m ³	TWA: 400 ppm TWA: 1600 mg/m ³ STEL: 400 ppm STEL: 1600 mg/m ³	STEL: 2000 mg/m ³ TWA: 1200 mg/m ³	TWA: 40 ppm TWA: 275 mg/m ³ STEL: 60 ppm STEL: 343.75 mg/m ³	TWA: 500 ppm TWA: 2085 mg/m ³ STEL: 1500 ppm STEL: 6255 mg/m ³
Isobutane	TWA: 800 ppm	TWA: 800 ppm	-	TWA: 40 ppm	-

75-28-5	TWA: 1900 mg/m ³ STEL 1600 ppm STEL 3800 mg/m ³	TWA: 1900 mg/m ³ STEL: 3200 ppm STEL: 7200 mg/m ³		TWA: 275 mg/m ³ STEL: 60 ppm STEL: 343.75 mg/m ³	
Propane 74-98-6	TWA: 1000 ppm TWA: 1800 mg/m ³ STEL 2000 ppm STEL 3600 mg/m ³	TWA: 1000 ppm TWA: 1800 mg/m ³ STEL: 4000 ppm STEL: 7200 mg/m ³	TWA: 1800 mg/m ³	TWA: 40 ppm TWA: 275 mg/m ³ STEL: 60 ppm STEL: 343.75 mg/m ³	TWA: 1000 ppm STEL: 3000 ppm
Acetone 67-64-1	TWA: 500 ppm TWA: 1200 mg/m ³ STEL 2000 ppm STEL 4800 mg/m ³	TWA: 500 ppm TWA: 1200 mg/m ³ STEL: 1000 ppm STEL: 2400 mg/m ³	STEL: 1800 mg/m ³ TWA: 600 mg/m ³	TWA: 125 ppm TWA: 295 mg/m ³ STEL: 156.25 ppm STEL: 368.75 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³
Propan-2-ol 67-63-0	TWA: 200 ppm TWA: 500 mg/m ³ STEL 800 ppm STEL 2000 mg/m ³	TWA: 200 ppm TWA: 500 mg/m ³ STEL: 400 ppm STEL: 1000 mg/m ³	STEL: 1200 mg/m ³ TWA: 900 mg/m ³	TWA: 100 ppm TWA: 245 mg/m ³ STEL: 150 ppm STEL: 306.25 mg/m ³	TWA: 200 ppm STEL: 400 ppm Sk*

Biological Limit Values

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Acetone 67-64-1	-	-	-	50	80 mg/L
Propan-2-ol 67-63-0	-	-	-	40	25 mg/L
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Acetone 67-64-1	-	80	-	-	-
Propan-2-ol 67-63-0	-	25	-	-	-

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas. As a general rule, at least 10 air changes per hour are recommended at the workplace.
Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.
Showers.
Eyewash stations.

Personal protective equipment

Eye/face protection

Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

Hand Protection

Wear protective gloves. EN 374-1:2003.

Skin and body protection

Wear suitable protective clothing. Antistatic footwear.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Recommended Filter type:

brown AX (EN 371:1992)

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Appearance

White translucent

Color

white

Odor

Alcohol

Odor threshold

No data available

Property

Values

Remarks • Method

pH

No data available

Melting point/freezing point

No data available

Boiling point / boiling range

82 - 110 °C / 180 - 230 °F

Flash point

- 4 °C / 24 °F

Tag Closed Cup

Evaporation rate	4.0	(Butyl Acetate = 1)
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper flammability limit:	13.7	(Vol % @ 38°C (100°F))
Lower flammability limit:	1.2	(Vol % @ 38°C (100°F))
Vapor pressure	7.3	@ 20 °C (kPa)
Vapor density	4.0	(Air = 1)
Specific Gravity	0.74	g/ml @ 20°C
Water solubility	< 20%	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	325 - 400 °C / 600 - 750 °F	
Kinematic viscosity	No data available	
Dynamic viscosity	No data available	
Explosive properties	Not applicable	
Oxidizing properties	No data available	

9.2. Other information

Softening point	No data available	
Molecular weight	No data available	
VOC Content (%)	<= 97.0	Wt %
Density	6.17	lbs./gal.
Bulk density	No data available	

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable

10.2. Chemical stability

Stable.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge May be ignited by heat, sparks or flames.

10.3. Possibility of hazardous reactions**Hazardous polymerization**

Hazardous polymerization does not occur.

Possibility of Hazardous Reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks. Take precautionary measures against static discharges. Protect from direct sunlight. Temperatures above 50 °C / 122 °F. Decomposition temperature: 325-400°C / 600-750°F.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon oxides. Fluorinated compounds.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects**Acute toxicity****Product Information**

Inhalation	Inhalation of vapors in high concentration may cause irritation of respiratory system. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Do not smoke. Do not contaminate tobacco products. The thermal decomposition vapours of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans, especially when smoking tobacco.
Eye contact	May cause irritation.
Skin contact	May cause irritation.
Ingestion	Not an expected route of exposure. May be harmful if swallowed. Potential for aspiration if swallowed.

Unknown acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	> 5000 mg/kg
ATEmix (dermal)	> 5000 mg/kg
ATEmix (inhalation-gas)	> 20000 ppm
ATEmix (inhalation-dust/mist)	> 5 mg/l
ATEmix (inhalation-vapor)	> 20 mg/l

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dimethyl ether			= 308.5 mg/L (Rat) 4 h
Heptane (n-)	> 5000 mg/kg (Rat)	= 3000 mg/kg (Rabbit)	= 103 g/m ³ (Rat) 4 h
Isobutane			= 658 mg/L (Rat) 4 h
Propane			= 658 mg/L (Rat) 4 h
Acetone			= 50100 mg/m ³ (Rat) 8 h
Propan-2-ol	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rabbit)	= 16000 ppm (Rat) 8 h

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Symptoms	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Aspiration hazard	Risk of serious damage to the lungs by aspiration.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity**Ecotoxicity**

The environmental impact of this product has not been fully investigated

Component Information:

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Heptane (n-)	4,338: 72 h Pseudokirchneriella subcapitata mg/L EL50	375.0: 96 h Cichlid fish mg/L LC50	10: 24 h Daphnia magna mg/L EC50
Acetone	-	4.74 - 6.33: 96 h Oncorhynchus mykiss mL/L LC50 6210 - 8120: 96 h Pimephales promelas mg/L LC50 static 8300: 96 h Lepomis macrochirus mg/L LC50	10294 - 17704: 48 h Daphnia magna mg/L EC50 Static 12600 - 12700: 48 h Daphnia magna mg/L EC50
Propan-2-ol	1000: 96 h Desmodesmus subspicatus mg/L EC50 1000: 72 h Desmodesmus subspicatus mg/L EC50	9640: 96 h Pimephales promelas mg/L LC50 flow-through 11130: 96 h Pimephales promelas mg/L LC50 static 1400000: 96 h Lepomis macrochirus µg/L LC50	13299: 48 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Component Information:

Chemical Name	Partition coefficient
Dimethyl ether	-0.18
Heptane (n-)	4.66
Isobutane	2.88
Propane	2.3
Acetone	-0.24
Propan-2-ol	0.05

12.4. Mobility in soil**Mobility in soil**

No information available.

Mobility

No information available.

12.5. Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6. Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods**Waste from residues/unused**

Disposal should be in accordance with applicable regional, national and local laws and

products	regulations.
Contaminated packaging	Pressurized container: Do not pierce or burn, even after use. Disposal should be in accordance with applicable regional, national and local laws and regulations.
Waste codes / waste designations according to EWC / AVV	16 05 04*
Other Information	Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORT INFORMATION

IMDG

14.1 UN/ID no.	UN1950
14.2 Proper shipping name	Aerosols, 2.1 UN1950, LIMITED QUANTITY
14.3 Hazard Class	2.1
14.4 Packing Group	
14.5 Marine pollutant	Yes
Environmental hazard	
14.6 Special Provisions	
EmS-No.	F-G, S-U
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	

RID

14.1 UN/ID no.	
14.2 Proper shipping name	See IMDG
14.3 Hazard Class	
14.4 Packing Group	
14.5 Environmental hazard	
14.6 Special Provisions	

ADR

14.1 UN/ID no.	
14.2 Proper shipping name	See IMDG
14.3 Hazard Class	
14.4 Packing Group	
14.5 Environmental hazard	
14.6 Special Provisions	

IATA

14.1 UN/ID no.	ID8000
14.2 Proper shipping name	Consumer Commodity, 9, ID8000
14.3 Hazard Class	9
14.4 Packing Group	
14.5 Environmental hazard	
14.6 Special Provisions	
ERG Code	9L

Section 15: REGULATORY INFORMATION

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

Chemical Name	French RG number	Title
Heptane (n-) 142-82-5	RG 84	-
Acetone	RG 84	-

67-64-1		
Propan-2-ol 67-63-0	RG 84	-

Water hazard class (WGK) Water endangering class = 2 (self estimation)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)
This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

No information available

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of R-phrases referred to under sections 2 and 3

R11 - Highly flammable
R12 - Extremely flammable
R36 - Irritating to eyes
R38 - Irritating to skin
R65 - Harmful: may cause lung damage if swallowed
R67 - Vapors may cause drowsiness and dizziness
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of H-Statements referred to under section 3

H222 - Extremely flammable aerosol

H229 - Pressurized gas; May burst if heated
 H304 - May be fatal if swallowed and enters airways
 H316 - Causes mild skin irritation
 H319 - Causes serious eye irritation
 H336 - May cause drowsiness or dizziness
 H401 - Toxic to aquatic life
 H411 - Toxic to aquatic life with long lasting effects
 EUH066 - Repeated exposure may cause skin dryness or cracking
 H220 - Extremely flammable gas
 H280 - Contains gas under pressure; may explode if heated
 H315 - Causes skin irritation
 H400 - Very toxic to aquatic life
 H410 - Very toxic to aquatic life with long lasting effects
 H225 - Highly flammable liquid and vapor
 H305 - May be harmful if swallowed and enters airways

Legend

SVHC: Substances of Very High Concern for Authorization.

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Issue Date 2001 04 18

Revision Date 2015 08 19

Revision Note

2001 04 18: Initial release
 2007 04 02: Modified to conform to 16 part format of ANSI Standard Z400.1-2004
 2008 02 04: Modified to reflect new transportation information
 2010 09 27: Modified to update expiring issue date
 2010 09 27: Modified to update expiring issue date
 2013 03 15: Modified to update expiring issue date
 2013 03 22: Modified to update Sections 3, 7, 15
 2013 03 29: Modified to correct telephone number in Section 1
 2015 03 31: Modified to eliminate Toluene from the product formulation
 2015 08 19: Modified to comply with Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008
 2015 08 19: Modified to conform to 29 CFR 1910 (OSHA HCS).

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Disclaimer

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End of Safety Data Sheet