



A CSW Industrials Company

SAFETY DATA SHEET

This SDS conforms to REACH SDS CLP regulation 2015/830.

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

1.1. Product identifier

Product Code(s) 61741
Product Name C-PLATE™
Chemical name

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

Recommended Use Lubricants, Greases and Release Products.
Uses advised against No information available.

1.3. Details of the supplier of the safety data sheet

Importer
Jet-Lube (UK) Ltd
City Park, Watchmead
Welwyn Garden City, Hertfordshire
AL7 1LT
United Kingdom

Manufacturer
Jet Lube LLC
930 Whitmore Drive
Rockwall, Texas USA 75087
TEL: +1-713-670-5700 (8am-5pm CST)

For further information, please contact.

Responsible Persons Regulatory & Laboratory Team Member(s)
E-mail Address regulatory@jetlube.com
Non-Emergency Telephone Number +44-1628-631913 (JL UK Office)
+1-972-771-1000 (USA Office)

1.4. Emergency telephone number

Emergency Telephone Number 44 1628-631913

Emergency telephone §45 - (EC)1272/2008	
Europe	112
Austria	Poison Information Center (AT): +43-(0)1-406 43 43
Belgium	Poison Center (BE): +32 70 245 245



Denmark	Poison Control Hotline (DK): +45 82 12 12 12
Finland	Poison Information Centre (FI): +358 9 471 977
France	ORFILA (FR): + 01 45 42 59 59
Germany	Poison Center Berlin (DE): +49 030 30686 790 (24 h service, Advice in German and English)
Ireland	National Poisons Information Centre (IE): +353 1 8379964
Italy	Poison Center, Milan (IT): +39 02 6610 1029
Netherlands	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)
Norway	Poisons Information (NO): + 47 22 591300
Poland	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97
Portugal	Poison Information Center (PT): +351 21 330 3284
Spain	Poison Information Service (ES): +34 91 562 04 20
Sweden	Poisons Information Center (SV): +46 8 33 12 31
Switzerland	Poison Center (CH): Tel 145: +41 44 251 51 51
United Kingdom	NHS Direct (UK): +44 0845 46 47

Section 2: Hazards Identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity (single exposure)	Category 3 - (H336)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)
Aerosols	Category 1
Gases Under Pressure	Compressed Gas - (H280)

2.2. Label elements



Signal word

Danger

Hazard Statements

- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H336 - May cause drowsiness or dizziness
- H410 - Very toxic to aquatic life with long lasting effects
- H222 - Extremely flammable aerosol
- H280 - Contains gas under pressure; may explode if heated

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

P201 - Obtain special instructions before use
 P264 - Wash face, hands and any exposed skin thoroughly after handling
 P273 - Avoid release to the environment
 P280 - Wear protective gloves and eye/face protection
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P391 - Collect spillage
 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 - Do not pierce or burn, even after use
 P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
 P251 - Pressurized container: Do not pierce or burn, even after use

2.3. Other hazards

No information available

Section 3: Composition/Information**3.1 Substances**

Not applicable.

3.2 Mixtures

Chemical Name	EC No	CAS-No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Reg. No.
Petroleum gases	270-704-2	68476-85-7	23-28	Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319) (EUH066)	01-2119485911-31
Acetone	200-662-2	67-64-1	20-25	(EUH066) Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)	01-2119471330-49
Xylenes (o-, m-, p-isomers)	215-535-7	1330-20-7	15-20	Acute Tox. 4 (H312) Skin Irrit. 2 (H315) (EUH066)	01-2119488216-32
Methyl ethyl ketone	201-159-0	78-93-3	15-20	Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)	01-2119457290-43
Copper (flake)	231-159-6	7440-50-8	1-5	Eye Irrit. 2 (H319)	01-2119480154-42

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

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)

Section 4: First aid measures**4.1. Description of first aid measures****General advice**

IF exposed or concerned: Get medical advice/attention. Show this safety data

sheet to the doctor in attendance.

Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid contact with skin, eyes or clothing.

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

Symptoms	Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical, Carbon dioxide (CO₂), Water spray.

Unsuitable extinguishing media DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cylinders may rupture under extreme heat. Damaged cylinders should be handled only by specialists. Containers may explode when heated.

Hazardous Combustion Products

Carbon oxides.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6: Accidental release measures



6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharges.
Other Information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
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6.3. Methods and material for containment and cleaning up

Methods for containment	Stop leak if you can do it without risk. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways.
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See section 13 for more information.
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Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling	Use personal protection equipment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use spark-proof tools and explosion-proof equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Keep in an area equipped with sprinklers. Do not puncture or incinerate cans. Contents under pressure. In case of rupture. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.
General Hygiene Considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from
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sunlight. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Material Safety Data Sheet.

Section 8: Exposure control/personal protection equipment

8.1. Control parameters

Exposure Limits

Chemical Name	EU	United Kingdom	France	Spain	Germany
Petroleum gases 68476-85-7	-	TWA: 1000 ppm TWA: 1750 mg/m ³ STEL: 1250 ppm STEL: 2180 mg/m ³ Carc*	-	TWA: 1000 ppm	-
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
Xylenes (o-, m-, p- isomers) 1330-20-7	S* TWA 50 ppm TWA 221 mg/m ³ STEL 100 ppm STEL 442 mg/m ³	TWA: 50 ppm TWA: 220 mg/m ³ STEL: 100 ppm STEL: 441 mg/m ³ Skin	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ Skin	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ Skin	TWA: 100 ppm TWA: 440 mg/m ³ S*
Methyl ethyl ketone 78-93-3	TWA 200 ppm TWA 600 mg/m ³ STEL 300 ppm STEL 900 mg/m ³	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 899 mg/m ³ Skin	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³ Skin	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³	TWA: 200 ppm TWA: 600 mg/m ³ S*
Copper (flake) 7440-50-8	-	TWA: 1 mg/m ³ TWA: 0.2 mg/m ³ STEL: 0.6 mg/m ³ STEL: 2 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 2 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	-
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Petroleum gases 68476-85-7	TWA: 1000 ppm	TWA: 1000 ppm	-	-	-
Acetone 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³ TWA: 1187 mg/m ³ STEL: 750 ppm STEL: 1781 mg/m ³ Carc*	TWA: 500 ppm TWA: 1210 mg/m ³ STEL: 750 ppm Carc*	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

Xylenes (o-, m-, p-isomers) 1330-20-7	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ Skin TWA: 100 ppm TWA: 434 mg/m ³ STEL: 150 ppm STEL: 651 mg/m ³ Carc*	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ Skin Carc*	TWA: 210 mg/m ³ STEL: 442 mg/m ³ Skin	TWA: 50 ppm TWA: 220 mg/m ³ STEL: 100 ppm STEL: 440 mg/m ³ Skin	TWA: 25 ppm TWA: 109 mg/m ³ Skin
Methyl ethyl ketone 78-93-3	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³ TWA: 590 mg/m ³ STEL: 885 mg/m ³	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³	TWA: 590 mg/m ³ STEL: 900 mg/m ³ Skin	STEL: 100 ppm STEL: 300 mg/m ³ Skin	TWA: 50 ppm TWA: 145 mg/m ³ Skin
Copper (flake) 7440-50-8	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 0.1 mg/m ³	TWA: 1 mg/m ³ TWA: 0.1 mg/m ³	TWA: 1.0 mg/m ³ TWA: 0.1 mg/m ³
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Petroleum gases 68476-85-7	-	-	-	-	TWA: 1000 ppm TWA: 1800 mg/m ³ STEL: 2250 mg/m ³ STEL: 1250 ppm
Acetone 67-64-1	STEL: 2000 ppm STEL: 4800 mg/m ³ TWA: 500 ppm TWA: 1200 mg/m ³	STEL: 1000 ppm STEL: 2400 mg/m ³ TWA: 500 ppm TWA: 1200 mg/m ³	TWA: 600 mg/m ³ STEL: 1800 mg/m ³	TWA: 125 ppm TWA: 295 mg/m ³ STEL: 125 ppm STEL: 295 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³ STEL: 1500 ppm STEL: 3630 mg/m ³
Xylenes (o-, m-, p-isomers) 1330-20-7	STEL: 100 ppm STEL: 442 mg/m ³ TWA: 50 ppm TWA: 221 mg/m ³ Skin	STEL: 200 ppm STEL: 870 mg/m ³ TWA: 100 ppm TWA: 435 mg/m ³ Skin	TWA: 100 mg/m ³	TWA: 25 ppm TWA: 108 mg/m ³ STEL: 37.5 ppm STEL: 135 mg/m ³ Skin	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ Skin
Methyl ethyl ketone 78-93-3	STEL: 200 ppm STEL: 590 mg/m ³ TWA: 100 ppm TWA: 295 mg/m ³ Skin	STEL: 200 ppm STEL: 590 mg/m ³ TWA: 200 ppm TWA: 590 mg/m ³ Skin	TWA: 450 mg/m ³ STEL: 900 mg/m ³	TWA: 75 ppm TWA: 220 mg/m ³ STEL: 75 ppm STEL: 220 mg/m ³	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³ Skin
Copper (flake) 7440-50-8	STEL: 4 mg/m ³ STEL: 0.4 mg/m ³ TWA: 1 mg/m ³ TWA: 0.1 mg/m ³	STEL: 0.2 mg/m ³ TWA: 0.1 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.1 mg/m ³ TWA: 1 mg/m ³ STEL: 0.1 mg/m ³ STEL: 1 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 0.6 mg/m ³ STEL: 2 mg/m ³
Chemical name	Romania	Ukraine TLVs	Sweden TLVs	Hungary	Turkey TLVs
Acetone 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³		LLV: 250 ppm LLV: 600 mg/m ³ Indicative STLV: 500 ppm Indicative STLV: 1200 mg/m ³	TWA: 1210 mg/m ³ STEL: 2420 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³
Xylenes (o-, m-, p-	TWA: 221 mg/m ³		LLV: 50 ppm	STEL: 442 mg/m ³	STEL: 100 ppm

isomers) 1330-20-7	TWA: 50 ppm STEL: 100 ppm STEL: 442 mg/m ³ Skin		LLV: 221 mg/m ³ Binding STLV: 100 ppm Binding STLV: 442 mg/m ³	TWA: 221 mg/m ³ Skin	STEL: 442 mg/m ³ TWA: 50 ppm TWA: 221 mg/m ³
Methyl ethyl ketone 78-93-3	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³		LLV: 50 ppm LLV: 150 mg/m ³ Binding STLV: 300 ppm Binding STLV: 900 mg/m ³	TWA: 600 mg/m ³ STEL: 900 mg/m ³ Skin	STEL: 300 ppm STEL: 900 mg/m ³ TWA: 200 ppm TWA: 600 mg/m ³
Copper (flake) 7440-50-8	TWA: 0.50 mg/m ³ STEL: 0.20 mg/m ³ STEL: 1.50 mg/m ³		LLV: 1 mg/m ³ LLV: 0.2 mg/m ³	TWA: 1 mg/m ³ TWA: 0.1 mg/m ³ STEL: 4 mg/m ³ STEL: 0.4 mg/m ³	

Biological occupational exposure limits

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Acetone 67-64-1	-	-	100 mg/L urine end of shift Acetone Background noise on non-exposed subjects, Non-specific (observed after the exposure to other substances)	50 mg/L urine end of shift Acetone 2	80 mg/L urine end of shift Acetone
Xylenes (o-, m-, p- isomers) 1330-20-7	-	650	1500 mg/g creatinine urine end of shift Methylhippuric acid	1 g/g Creatinine urine end of shift Methylhippuric acids 2	1.5 mg/L whole blood end of shift Xylene all isomers 2000 mg/L urine end of shift Methylhippuric(tol ur-)acid all isomers
Methyl ethyl ketone 78-93-3	-	70	2 mg/L urine end of shift Methylethylketone	2 mg/L urine end of shift Methyl ethyl ketone 2	2 mg/L urine end of shift 2-Butanone
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Acetone 67-64-1	(ACGIH:) 50 mg/L urine end of shift Acetone Nonspecific	-	-	-	-
Xylenes (o-, m-, p- isomers) 1330-20-7	(ACGIH:) 1.5 g/g Creatinine urine end of shift Methylhippuric acid Technical or commercial grade	-	-	5.0 mmol/L urine end of shift Methylhippuric acid	-
Methyl ethyl ketone	(ACGIH:) 2 mg/L	-	-	-	-

78-93-3	urine end of shift MEK Nonspecific				
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Acetone 67-64-1	-	80	-	-	50 mg/L urine end of shift Acetone nonspecific
Xylenes (o-, m-, p- isomers) 1330-20-7	1.5 g/L urine after end of work day, at the end of a work week/ end of the shift Methylhippuric acid only appropriate for urine samples with specific weight >=1010 mg/mL, additionally by repeated override of limit value in urine the Xylene in blood should be determined at the end of work day and limit value for Xylene should be 1000 µg/L in blood	2	-	-	1.5 g/g creatinine urine end of shift Methylhippuric acids
Methyl ethyl ketone 78-93-3	-	2	-	-	70 µmol/L urine post shift Butan-2-one

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2. Exposure controls

Personal protective equipment

Eye/face protection	Tight sealing safety goggles. If splashes are likely to occur, wear safety glasses with side-shields. None required for consumer use.
Hand Protection	Impervious gloves. Wear suitable gloves. Viton™. Rubber gloves. Nitrile rubber. Protective gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Environmental exposure controls No information available.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Aerosol
Appearance	Copper
Odor	Solvent Ether
Color	Copper
Odor Threshold	Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks Method</u>
pH	7	
Melting / freezing point	-95 °C	None known
Boiling point / boiling range	-18 to 162 °C	None known
Flash Point	> -20 °C	None known
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	0.76	
Water Solubility	Insoluble	
Solubility(ies)	No data available	None known
Partition coefficient: n-octanol/water	Not applicable	
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Viscosity	No data available	None known

9.2. Other information

Softening Point	No information available
Molecular Weight	No information available
VOC Content (%) <=606	No information available
Liquid Density	No information available
Bulk Density	No information available
Particle Size	No information available
Particle Size Distribution	No information available

Section 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

Explosion Data

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

Yes.

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

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

Strong acids, Strong bases, Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon oxides.

Section 11: Toxicological information**11.1. Information on toxicological effects****Information on likely routes of exposure****Product Information****Inhalation**

Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May cause drowsiness or dizziness.

Eye contact

Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). May cause redness, itching, and pain. Causes serious eye irritation.

Skin contact

Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components). May cause irritation. Prolonged contact may cause redness and irritation.

Ingestion

Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Information on toxicological effects**Symptoms**

Redness. May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Numerical measures of toxicity**Acute Toxicity**

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

ATEmix (oral)	5,309.00 mg/kg
ATEmix (dermal)	4,257.00 mg/kg
ATEmix (inhalation-gas)	21,249.00 ppm
ATEmix (inhalation-dust/mist)	6.96 mg/L
ATEmix (inhalation-vapor)	39.38 mg/L

Unknown acute toxicity

- 11.7 % of the mixture consists of ingredient(s) of unknown toxicity
- 11.7 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 11.7 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 11.7 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 11.7 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 11.7 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	Inhalation LC50
Acetone	= 5800 mg/kg (Rat)	1700mg/kg (rabbit)	18892 mg/m ³
Xylenes (o-, m-, p- isomers)	= 3500 mg/kg (Rat)	> 4350 mg/kg (Rabbit) > 1700 mg/kg (Rabbit)	= 29.08 mg/L (Rat) 4 h = 5000 ppm (Rat) 4 h
Methyl ethyl ketone	= 2737 mg/kg (Rat)	= 6480 mg/kg (Rabbit)	23500 mg/m ³

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye irritation Classification based on data available for ingredients. Irritating to eyes.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

Carcinogenicity No information available.

Chemical Name	EU - Annex VI Carcinogens
Petroleum gases	Carc. 1A

Reproductive Toxicity No information available.

STOT - single exposure May cause drowsiness or dizziness.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity

Very toxic to aquatic life with long lasting effects. .

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Acetone		LC50 96 h: 4.74 - 6.33 mL/L (Oncorhynchus mykiss) LC50 96 h: 6210 - 8120 mg/L static (Pimephales promelas) LC50 96 h: = 8300 mg/L (Lepomis macrochirus)	EC50 = 14500 mg/L 15 min	EC50 48 h: 10294 - 17704 mg/L Static (Daphnia magna) EC50 48 h: 12600 - 12700 mg/L (Daphnia magna)
Xylenes (o-, m-, p-isomers)	EC50 72 h: = 11 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: = 13.4 mg/L flow-through (Pimephales promelas) LC50 96 h: 2.661 - 4.093 mg/L static (Oncorhynchus mykiss) LC50 96 h: 13.5 - 17.3 mg/L (Oncorhynchus mykiss) LC50 96 h: 13.1 - 16.5 mg/L flow-through (Lepomis macrochirus) LC50 96 h: = 19 mg/L (Lepomis macrochirus) LC50 96 h: 7.711 - 9.591 mg/L static (Lepomis macrochirus) LC50 96 h: 23.53 - 29.97 mg/L static (Pimephales promelas) LC50 96 h: = 780 mg/L semi-static (Cyprinus carpio) LC50 96 h: > 780 mg/L (Cyprinus carpio) LC50 96 h: 30.26 - 40.75 mg/L static (Poecilia reticulata)	EC50 = 0.0084 mg/L 24 h	EC50 48 h: = 3.82 mg/L (water flea) LC50 48 h: = 0.6 mg/L (Gammarus lacustris)
Methyl ethyl ketone		LC50 96 h: 3130-3320 mg/L flow-through (Pimephales promelas)	EC50 = 3403 mg/L 30 min EC50 = 3426 mg/L 5 min	EC50 48 h: 4025 - 6440 mg/L Static (Daphnia magna) EC50 48 h: = 5091 mg/L (Daphnia magna) EC50 48 h: > 520 mg/L (Daphnia magna)
Copper (flake)	96h EC50: 0.031 - 0.054 mg/L (Pseudokirchneriella subcapitata) 72h	96h LC50: = 0.052 mg/L (Oncorhynchus mykiss) 96h LC50: < 0.3 mg/L (Pimephales	-	48h EC50: = 0.03 mg/L

	EC50: 0.0426 - 0.0535 mg/L (Pseudokirchneriella subcapitata)	promelas) 96h LC50: 0.0068 - 0.0156 mg/L (Pimephales promelas) 96h LC50: = 0.2 mg/L (Pimephales promelas) 96h LC50: = 0.3 mg/L (Cyprinus carpio) 96h LC50: = 0.112 mg/L (Poecilia reticulata) 96h LC50: = 0.8 mg/L (Cyprinus carpio) 96h LC50: = 1.25 mg/L (Lepomis macrochirus)		
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12.2. Persistence and degradability

Persistence and Degradability No information available.

12.3. Bioaccumulative potential**Bioaccumulation**

Chemical Name	Log Pow
Petroleum gases	2.8
Acetone	-0.24
Xylenes (o-, m-, p- isomers)	2.77 - 3.15
Methyl ethyl ketone	0.29

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment**PBT and vPvB assessment**

Chemical Name	PBT and vPvB assessment
Petroleum gases	The substance is not PBT / vPvB
Acetone	The substance is not PBT / vPvB
Xylenes (o-, m-, p- isomers)	The substance is not PBT / vPvB
Methyl ethyl ketone	The substance is not PBT / vPvB
Copper (flake)	The substance is not PBT / vPvB PBT assessment does not apply

12.6. Other adverse effects

Other adverse effects No information available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	No information available.

Section 14: Transport information

IMDG

14.1 UN Number	UN1950
14.2 Proper Shipping Name	Aerosols (Mixture)
Description	UN1950, Aerosols, 2.1, Mixture, FP -20C
14.3 Hazard Class (select)	2.1
14.4 Packing Group (select)	None
14.5 Marine Pollutant	Not applicable
Environmental hazard	Yes
14.6 Special Provisions	None
EmS-No.	F-D, S-U
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	No information available

RID

14.1 UN-No.	UN1950
14.2 Proper Shipping Name	Aerosols (Mixture)
Description	UN1950 Aerosols, 2.1, , Mixture
14.3 Hazard Class	2.1
ADR/RID-Labels	2.1
14.4 Packing Group	None
14.5 Environmental hazard	Yes
14.6 Special Provisions	None
Classification code	5F

ADR

14.1 UN-No.	UN1950
14.2 Proper Shipping Name	Aerosols (Mixture)
Description	UN1950 Aerosols, 2.1, ,, Mixture
14.3 Hazard Class	2.1
14.4 Packing Group	None
14.5 Environmental hazard	Yes
14.6 Special Provisions	None 190, 327, 344, 625
Classification code	5F
Tunnel restriction code	(D)

IATA

14.1 UN Number	UN1950
14.2 Proper Shipping Name	Aerosols, flammable (Mixture)
Description	UN1950, Aerosols, flammable, 2.1, Mixture
14.3 Hazard Class (select)	2.1
14.4 Packing Group (select)	None
14.5 Environmental hazard	Yes
14.6 Special Provisions	None

ERG Code	10L
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Section 15: Regulatory information

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

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical Name	French RG number	Title
Acetone 67-64-1	RG 84	-
Xylenes (o-, m-, p- isomers) 1330-20-7	RG 4bis, RG 84	-
Methyl ethyl ketone 78-93-3	RG 84	-
Copper (flake) 7440-50-8	RG 5, RG 14, RG 15, RG 15bis, RG 20bis	-

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 contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical Name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Petroleum gases - 68476-85-7	Use restricted. See item 28. Use restricted. See item 29.	

Persistent Organic Pollutants

Not applicable.

Dangerous substance category per Seveso Directive (2012/18/EU)

P3a - FLAMMABLE AEROSOLS

P3b - FLAMMABLE AEROSOLS

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic

Named dangerous substances per Seveso Directive (2012/18/EU)

Chemical Name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Petroleum gases - 68476-85-7	50	200

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable.

International Inventories

TSCA

Complies.

DSL/NDSL

Complies.

EINECS/ELINCS

Complies.

ENCS

Complies.

IECSC

Contact supplier for inventory compliance status.



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 H-Statements referred to under sections 2 and 3**

EUH066 - Repeated exposure may cause skin dryness or cracking
 H220 - Extremely flammable gas
 H225 - Highly flammable liquid and vapor
 H226 - Flammable liquid and vapor
 H280 - Contains gas under pressure; may explode if heated
 H312 - Harmful in contact with skin
 H315 - Causes skin irritation
 H319 - Causes serious eye irritation
 H332 - Harmful if inhaled
 H335 - May cause respiratory irritation
 H336 - May cause drowsiness or dizziness
 H400 - Very toxic to aquatic life
 H410 - Very toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorization:

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Key literature references and sources for data

www.ChemADVISOR.com/

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Disclaimer

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End of Safety Data Sheet

