



## SAFETY DATA SHEET CYCLO® SILICONE SPRAY

According to Regulation (EU) No 453/2010

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name CYCLO® SILICONE SPRAY  
Product No. C-33

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

Identified uses Silicone spray lubricates waterproofs inhibits rust and corrosion.

#### 1.3. Details of the supplier of the safety data sheet

Supplier Cyclo Industries Inc.  
Regent House Business Centre  
24-25 Nutford Place  
Marble Arch  
London  
W1H 5YN  
0797 6921836  
E mail ehs@cyclo.com

#### 1.4. Emergency telephone number

001 312 906 6194

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Xi;R38. F+;R12. N;R50/53. R67.

##### Human health

See section 11 for additional information on health hazards.

##### Environment

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

##### Physical and Chemical Hazards

Aerosol containers can explode when heated, due to excessive pressure build-up. The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures.

#### 2.2. Label elements

Contains DISTILLATES (PETROLEUM), HYDROTREATED LIGHT  
HEPTANE

##### Labelling



Irritant



Extremely flammable



Dangerous for the  
environment

##### Risk Phrases

R12  
R38  
R50/53

Extremely flammable.  
Irritating to skin.  
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**CYCLO® SILICONE SPRAY**

|                       |     |   |
|-----------------------|-----|---|
| <b>Safety Phrases</b> | R67 | Vapours may cause drowsiness and dizziness.   |
|                       | A1  | Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. |
|                       | A2  | Do not spray on a naked flame or any incandescent material.   |
|                       | S2  | Keep out of the reach of children.  |
|                       | S9  | Keep container in a well-ventilated place.  |
|                       | S16 | Keep away from sources of ignition - No smoking.  |
|                       | S23 | Do not breathe vapour/spray.  |
|                       | S24 | Avoid contact with skin.  |
|                       | S29 | Do not empty into drains.   |
|                       | S37 | Wear suitable gloves.   |
|                       | S51 | Use only in well-ventilated areas.  |
|                       | S61 | Avoid release to the environment. Refer to special instructions/safety data sheets.   |

**2.3. Other hazards**

This product does not contain any PBT or vPvB substances.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

|  |   |               |
|--|---|---------------|
| <b>DISTILLATES (PETROLEUM), HYDROTREATED LIGHT</b>   |   | <b>30-60%</b> |
| <b>CAS-No.: 64742-47-8</b>   | <b>EC No.: 265-149-8</b>  |               |
| Classification (EC 1272/2008)<br>Asp. Tox. 1 - H304  | Classification (67/548/EEC)<br>Xn;R65                                       |               |
| <b>HEPTANE</b>   |   | <b>10-30%</b> |
| <b>CAS-No.: 142-82-5</b>   | <b>EC No.: 205-563-8</b>  |               |
| Classification (EC 1272/2008)<br>Flam. Liq. 2 - H225<br>Skin Irrit. 2 - H315<br>STOT SE 3 - H336<br>Asp. Tox. 1 - H304<br>Aquatic Acute 1 - H400<br>Aquatic Chronic 1 - H410 | Classification (67/548/EEC)<br>F;R11<br>Xn;R65<br>Xi;R38<br>R67<br>N;R50/53 |               |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures****General information**

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

**Inhalation**

Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

**Ingestion**

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.

**CYCLO® SILICONE SPRAY****Skin contact**

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

**Eye contact**

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

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

Drowsiness, dizziness, disorientation, vertigo.

**Ingestion**

Nausea, vomiting.

**Skin contact**

Skin irritation.

**Eye contact**

Prolonged contact may cause redness and/or tearing.

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

Treat Symptomatically.

**SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing media****Extinguishing media**

Use: Water spray, foam, dry powder or carbon dioxide.

**5.2. Special hazards arising from the substance or mixture****Unusual Fire & Explosion Hazards**

Aerosol cans may explode in a fire. Vapours are heavier than air and may spread near ground to sources of ignition.

**Specific hazards**

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

**5.3. Advice for firefighters****Special Fire Fighting Procedures**

Containers close to fire should be removed immediately or cooled with water. Use water to keep fire exposed containers cool and disperse vapours. Keep run-off water out of sewers and water sources. Dike for water control.

**Protective equipment for fire-fighters**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective clothing as described in Section 8 of this safety data sheet.

**6.2. Environmental precautions**

Avoid discharge to the aquatic environment.

**6.3. Methods and material for containment and cleaning up**

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers. Provide ventilation and confine spill. Do not allow runoff to sewer.

**6.4. Reference to other sections**

Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Provide good ventilation. Avoid spilling, skin and eye contact. Avoid inhalation of vapours and spray mists. Keep away from heat, sparks and open flame.

**CYCLO® SILICONE SPRAY****7.2. Conditions for safe storage, including any incompatibilities**

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Keep away from heat, sparks and open flame.

**7.3. Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

| Name    | STD | TWA - 8 Hrs |  | STEL - 15 Min |  | Notes |
|---------|-----|-------------|--|---------------|--|-------|
| HEPTANE | WEL | 500 ppm     |  |               |  |       |

WEL = Workplace Exposure Limit.

**8.2. Exposure controls****Protective equipment****Engineering measures**

Provide adequate general and local exhaust ventilation.

**Respiratory equipment**

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. In case of inadequate ventilation use suitable respirator. Chemical respirator with organic vapour cartridge.

**Hand protection**

Wear protective gloves. Nitrile gloves are recommended.

**Eye protection**

Wear approved chemical safety goggles where eye exposure is reasonably probable.

**Other Protection**

Wear appropriate clothing to prevent any possibility of skin contact.

**Hygiene measures**

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

|   |   |
|---|---|
| Appearance                              | Aerosol.  |
| Solubility                              | Insoluble in water                                    |
| Initial boiling point and boiling range | -42°C   |
| Relative density                        | 0.72 @ 20°C   |
| Vapour density (air=1)                  | >1  |
| Flash point                             | -104°C  |
| Flammability Limit - Lower(%)           | 0.7   |
| Flammability Limit - Upper(%)           | 9.5   |
| Comments                                | Information given concerns the concentrated solution. |

**9.2. Other information**

Not known.

**CYCLO® SILICONE SPRAY****SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

There are no known reactivity hazards associated with this product.

**10.2. Chemical stability**

Stable under normal temperature conditions and recommended use.

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

Will not polymerise.

**10.4. Conditions to avoid**

Avoid exposing aerosol containers to high temperatures or direct sunlight. Avoid heat, flames and other sources of ignition.

**10.5. Incompatible materials****Materials To Avoid**

Strong oxidising substances.

**10.6. Hazardous decomposition products**

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Inhalation**

Vapours may cause drowsiness and dizziness. In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

**Ingestion**

May cause discomfort if swallowed. May cause stomach pain or vomiting.

**Skin contact**

Irritating to skin.

**Eye contact**

Spray and vapour in the eyes may cause irritation and smarting.

**Route of entry**

Inhalation.

**Toxicological information on ingredients.**

**CYCLO® SILICONE SPRAY**  
**HEPTANE (CAS: 142-82-5)**

**Acute toxicity:****Acute Toxicity (Oral LD50)**

> 5000 mg/kg Rat

REACH dossier information

Based on available data the classification criteria are not met.

**Acute Toxicity (Dermal LD50)**

> 2000 mg/kg Rabbit

REACH dossier information

Based on available data the classification criteria are not met.

**Acute Toxicity (Inhalation LC50)**

> 29.29 mg/L air Rat 4 hours

Estimated Value REACH dossier information

Based on available data the classification criteria are not met.

**Skin Corrosion/Irritation:****Erythema/eschar score**

Very slight erythema -barely perceptible (1).

Estimated Value REACH dossier information

Irritating.

**Serious eye damage/irritation:**

Not Irritating.

**Respiratory or skin sensitisation:****Respiratory sensitisation**

Mouse

Estimated Value REACH dossier information

Based on available data the classification criteria are not met.

**Skin sensitisation**

Guinea pig maximization test (GPMT):

Estimated Value REACH dossier information

Not Sensitising.

**Germ cell mutagenicity:****Genotoxicity - In Vitro**

Bacterial Reverse Mutation Test

REACH dossier information

Negative.

Based on available data the classification criteria are not met.

**Carcinogenicity:****Carcinogenicity**

Scientifically unjustified.

REACH dossier information

**Reproductive Toxicity:****Reproductive Toxicity - Fertility**

Two-generation study: LOAEL 9000 ppm Inhalation. Rat F1

REACH dossier information

**Reproductive Toxicity - Development**

Maternal toxicity: NOAEL 900 ppm Inhalation. Mouse

Estimated Value REACH dossier information

**CYCLO® SILICONE SPRAY****Specific target organ toxicity - repeated exposure:****STOT - Repeated exposure**

NOAEC 12470 mg/m<sup>3</sup> air (nominal) Inhalation.

REACH dossier information

**Aspiration hazard:****Viscosity**

Kinematic viscosity  $\leq$  20.5 mm<sup>2</sup>/s.

REACH dossier information

**CYCLO® SILICONE SPRAY**  
**DISTILLATES (PETROLEUM), HYDROTREATED LIGHT (CAS: 64742-47-8)**

**Acute toxicity:****Acute Toxicity (Oral LD50)**

> 5000 mg/kg Rat

REACH dossier information

Based on available data the classification criteria are not met.

**Acute Toxicity (Dermal LD50)**

> 2000 mg/kg Rabbit

REACH dossier information

Based on available data the classification criteria are not met.

**Acute Toxicity (Inhalation LC50)**

> 5.28 mg/L air Rat 4 hours

REACH dossier information

Based on available data the classification criteria are not met.

**Skin Corrosion/Irritation:****Erythema/eschar score**

No erythema (0).

**Oedema score**

No oedema (0).

REACH dossier information

Not irritating.

**Serious eye damage/irritation:**

Not Irritating.

**Respiratory or skin sensitisation:****Skin sensitisation**

Buehler test: Guinea Pig

REACH dossier information

Not Sensitising.

**Germ cell mutagenicity:****Genotoxicity - In Vitro**

Gene Mutation:

REACH dossier information

Negative.

**Genotoxicity - In Vivo**

Chromosome aberration:

REACH dossier information

Negative.

**Carcinogenicity:****Carcinogenicity**

LOAEL 250 mg/kg Dermal Mouse

REACH dossier information

**Reproductive Toxicity:****Reproductive Toxicity - Fertility**

Fertility: NOAEL 750 mg/kg/day Oral Rat P

REACH dossier information

**Reproductive Toxicity - Development**

Developmental toxicity: NOAEC 364 ppm Inhalation. Rat

REACH dossier information



**CYCLO® SILICONE SPRAY****Specific target organ toxicity - single exposure:****STOT - Single exposure**

Inconclusive data.

REACH dossier information

**Specific target organ toxicity - repeated exposure:****STOT - Repeated exposure**

NOAEL 750 mg/kg Oral

REACH dossier information

**Aspiration hazard:****Viscosity**Kinematic viscosity <= 20.5 mm<sup>2</sup>/s.

Estimated Value REACH dossier information

**SECTION 12: ECOLOGICAL INFORMATION****Ecotoxicity**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**12.1. Toxicity****Acute Fish Toxicity**

Very toxic to aquatic organisms.

**Ecological information on ingredients.****HEPTANE (CAS: 142-82-5)****Acute Toxicity - Fish**

LL50 96 hours 5.738 mg/l Onchorhynchus mykiss (Rainbow trout)

Estimated Value REACH dossier information

**Acute Toxicity - Aquatic Invertebrates**

EC50 48 hours 1.5 mg/l Daphnia magna

REACH dossier information

**Acute Toxicity - Aquatic Plants**

EL50 72 hours 4.338 mg/l Selenastrum capricornutum

Estimated Value REACH dossier information

NOELR 72 hours 0.97 mg/l Selenastrum capricornutum

Estimated Value REACH dossier information

EL50 48 hours 22.6 mg/l Tetrahymena pyriformis

Estimated Value REACH dossier information

**DISTILLATES (PETROLEUM), HYDROTREATED LIGHT (CAS: 64742-47-8)****Acute Toxicity - Fish**

LL50 96 hours ~ 18 mg/l Onchorhynchus mykiss (Rainbow trout)

Estimated Value REACH dossier information

**Acute Toxicity - Aquatic Invertebrates**

EL50 48 hours 1.4 mg/l Daphnia magna

Estimated Value REACH dossier information

**Acute Toxicity - Aquatic Plants**

EL50 72 hours ~ 2 mg/l Freshwater algae

Estimated Value REACH dossier information

**Acute Toxicity - Microorganisms**

NOEL 72 hours 1.641 mg/l Tetrahymena pyriformis

Estimated Value REACH dossier information

**12.2. Persistence and degradability****Degradability**

There are no data on the degradability of this product.

**CYCLO® SILICONE SPRAY****Ecological information on ingredients.****HEPTANE (CAS: 142-82-5)****Degradability**

The product is biodegradable.

**Phototransformation**

Air. Half-life: 4.47 days

Estimated Value REACH dossier information

**Stability (Hydrolysis)**

Scientifically unjustified.

REACH dossier information

**Biodegradation**

Soil Degradation (70%) 5 days

Estimated Value REACH dossier information

**DISTILLATES (PETROLEUM), HYDROTREATED LIGHT (CAS: 64742-47-8)****Degradability**

The product is biodegradable.

**Stability (Hydrolysis)**

Scientifically unjustified.

REACH dossier information

**Biodegradation**

Water Degradation (61%) 28 days

Estimated Value REACH dossier information

**12.3. Bioaccumulative potential****Bioaccumulative potential**

No data available on bioaccumulation.

**Ecological information on ingredients.****HEPTANE (CAS: 142-82-5)****Bioaccumulation factor**

BCF 552

Estimated Value REACH dossier information

**Partition coefficient**

log Pow 4.5

REACH dossier information

**DISTILLATES (PETROLEUM), HYDROTREATED LIGHT (CAS: 64742-47-8)****Bioaccumulative potential**

Bioaccumulation is unlikely to be significant because of the low water solubility of this product.

**Bioaccumulation factor**

Highly insoluble in water.

REACH dossier information

**Partition coefficient**

Highly insoluble in water.

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

The product is insoluble in water.

**CYCLO® SILICONE SPRAY****Ecological information on ingredients.****HEPTANE (CAS: 142-82-5)****Mobility:**

The product has poor water-solubility.

**Adsorption/Desorption Coefficient**

log K<sub>oc</sub> 2.38

Estimated Value REACH dossier information

**DISTILLATES (PETROLEUM), HYDROTREATED LIGHT (CAS: 64742-47-8)****Mobility:**

The product has poor water-solubility.

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

This product does not contain any PBT or vPvB substances.

**Ecological information on ingredients.****HEPTANE (CAS: 142-82-5)**

Not Classified as PBT/vPvB by current EU criteria.

**DISTILLATES (PETROLEUM), HYDROTREATED LIGHT (CAS: 64742-47-8)**

Not Classified as PBT/vPvB by current EU criteria.

**12.6. Other adverse effects**

None known.

**Ecological information on ingredients.****HEPTANE (CAS: 142-82-5)**

None known.

**DISTILLATES (PETROLEUM), HYDROTREATED LIGHT (CAS: 64742-47-8)**

None known.

**SECTION 13: DISPOSAL CONSIDERATIONS****General information**

When handling waste, consideration should be made to the safety precautions applying to handling of the product. Do not puncture or incinerate even when empty.

**13.1. Waste treatment methods**

Make sure containers are empty before discarding (explosion risk). Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements.

**SECTION 14: TRANSPORT INFORMATION****14.1. UN number**

|                      |      |
|----------------------|------|
| UN No. (ADR/RID/ADN) | 1950 |
| UN No. (IMDG)        | 1950 |
| UN No. (ICAO)        | 1950 |

**14.2. UN proper shipping name**

|                      |                    |
|----------------------|--------------------|
| Proper Shipping Name | AEROSOLS (HEPTANE) |
|----------------------|--------------------|

**14.3. Transport hazard class(es)**

|                   |                |
|-------------------|----------------|
| ADR/RID/ADN Class | 2.1            |
| ADR/RID/ADN Class | Class 2: Gases |
| ADR Label No.     | 2.1            |
| IMDG Class        | 2.1            |

**CYCLO® SILICONE SPRAY**

ICAO Class/Division 2.1

**Transport Labels****14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant

**14.6. Special precautions for user**

EMS F-D, S-U

Tunnel Restriction Code (D)

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

No information required. Not relevant

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Statutory Instruments**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

**Approved Code Of Practice**

Classification and Labelling of Substances and Preparations Dangerous for Supply.

**Guidance Notes**

Workplace Exposure Limits EH40.

**EU Legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION**

Revision Date June 2012

Revision 2

Supersedes date May 2009

Date May 2009

**CYCLO® SILICONE SPRAY****Risk Phrases In Full**

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

**Hazard Statements In Full**

|      |   |
|------|---|
| H315 | Causes skin irritation.                               |
| H224 | Extremely flammable liquid and vapour.                |
| H225 | Highly flammable liquid and vapour.                   |
| H304 | May be fatal if swallowed and enters airways.         |
| H336 | May cause drowsiness or dizziness.                    |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H400 | Very toxic to aquatic life.                           |

**Disclaimer**

Cyclo Industries Inc provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. Cyclo Industries Inc. makes no representations or warranties either expressed or implied, of merchantability, fitness for a particular purpose with respect to the information set forth herein or to the product to which the information refers. Accordingly, Cyclo Industries Inc. will not be responsible for damages resulting from use of or reliance upon this information.