



SAFETY DATA SHEET CYCLO® PARTS, TOOLS & BRAKE CLEANER

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® PARTS, TOOLS & BRAKE CLEANER

Product No. C-109

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

Identified uses Cleaner for general automotive parts.

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) Carc. Cat. 3;R40. N;R51/53.

Human health

See section 11 for additional information on health hazards.

Environment

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.

2.2. Label elements

Contains TETRACHLOROETHYLENE

Detergent Labelling:

>= 30%

halogenated hydrocarbons

Labelling



Harmful



Dangerous for the environment

Risk Phrases

R40
R51/53

Limited evidence of a carcinogenic effect.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

S2

Keep out of the reach of children.

CYCLO® PARTS, TOOLS & BRAKE CLEANER

| | |
|--------|---|
| S23 | Do not breathe vapour/spray. |
| S29 | Do not empty into drains. |
| S36/37 | Wear suitable protective clothing and gloves. |
| S51 | Use only in well-ventilated areas. |
| S61 | Avoid release to the environment. Refer to special instructions/safety data sheets. |
| S16 | Keep away from sources of ignition - No smoking. |
| 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. |

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

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

| | | |
|---|---|---------|
| TETRACHLOROETHYLENE | | 60-100% |
| CAS-No.: 127-18-4 | EC No.: 204-825-9 | |
| Classification (EC 1272/2008) Carc. 2 - H351 Aquatic Chronic 2 - H411 | Classification (67/548/EEC) Carc. Cat. 3;R40 N;R51/53 | |
| CO2 PROPELLANT | | 1-5% |
| CAS-No.: 124-38-9 | EC No.: 204-696-9 | |
| Substance with a Community workplace exposure limit. | | |
| Classification (EC 1272/2008) Not classified. | Classification (67/548/EEC) Not classified. | |

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****Inhalation**

Move the exposed person to fresh air at once. Provide rest, warmth and fresh air. Rinse nose and mouth with water. Get medical attention.

Ingestion

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention immediately!

Skin contact

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

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 if any discomfort continues.

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

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

Inhalation.

Vapours may cause drowsiness and dizziness.

Ingestion

May cause stomach pain or vomiting.

CYCLO® PARTS, TOOLS & BRAKE CLEANER**Skin contact**

Prolonged skin contact may cause redness and 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**

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

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

Aerosol cans may explode in a fire.

Specific hazards

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Chlorine. Hydrogen chloride (HCl). Phosgene (COCl₂).

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

Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.

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

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not contaminate water sources or 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.

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**

CYCLO® PARTS, TOOLS & BRAKE CLEANER

| Name | STD | TWA - 8 Hrs | | STEL - 15 Min | | Notes |
|---------------------|-----|-------------|------------|---------------|-------------|-------|
| CO2 PROPELLANT | WEL | 5000 ppm | 9150 mg/m3 | 15000 ppm | 27400 mg/m3 | |
| TETRACHLOROETHYLENE | WEL | 50 ppm | 345 mg/m3 | 100 ppm | 689 mg/m3 | |

WEL = Workplace Exposure Limit.

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

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of spray.

Respiratory equipment

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists. Chemical respirator with organic vapour cartridge.

Hand protection

Use suitable protective gloves if risk of skin contact. Use protective gloves made of: Polyvinyl alcohol (PVA). or Viton rubber (fluor rubber).

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. |
| Colour | Colourless. |
| Odour | Sweetish. |
| Solubility | Slightly soluble in water. |
| Initial boiling point and boiling range | 121°C |
| Relative density | 1.62 @25°C |
| Vapour density (air=1) | 4.1 |
| Vapour pressure | 13 mm Hg @20°C |
| Flash point | N/A |

9.2. Other information

Not known.

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

CYCLO® PARTS, TOOLS & BRAKE CLEANER**Hazardous Polymerisation**

Will not polymerise.

10.4. Conditions to avoid

Avoid exposing aerosol containers to high temperatures or direct sunlight.

10.5. Incompatible materials**Materials To Avoid**

Strong oxidising substances. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****Other Health Effects**

Carcinogen Category 3.

Inhalation

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

Ingestion

May irritate and cause stomach pain, vomiting and diarrhoea.

Skin contact

Liquid may irritate skin.

Eye contact

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

Specific effects

Contains a substance/a group of substances which may cause cancer.

Toxicological information on ingredients.

CYCLO® PARTS, TOOLS & BRAKE CLEANER
TETRACHLOROETHYLENE (CAS: 127-18-4)

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

3835 mg/kg Rat

REACH dossier information

Conclusive data but not sufficient for classification.

Acute Toxicity (Dermal LD50)

Not available.

Acute Toxicity (Inhalation LC50)

2613 ppm Mouse 4 hours

REACH dossier information

Conclusive data but not sufficient for classification.

Skin Corrosion/Irritation:**Dose**

0.5ml 4 hr Rabbit

Erythema/eschar score

Severe erythema (beef redness) to eschar formation preventing grading of erythema (4).

Oedema score

Very slight oedema -barely perceptible (1).

REACH dossier information

Irritating.

Respiratory or skin sensitisation:**Skin sensitisation**

Local Lymph Node Assay (LLNA) Mouse

REACH dossier information

Sensitising.

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

Gene Mutation:

REACH dossier information

Negative.

This substance has no evidence of mutagenic properties.

Genotoxicity - In Vivo

Chromosome aberration:

REACH dossier information

Negative.

This substance has no evidence of mutagenic properties.

Carcinogenicity:**Carcinogenicity**

Not available.

Reproductive Toxicity:**Reproductive Toxicity - Fertility**

Two-generation study: NOAEL 100 ppm Inhalation. Rat

REACH dossier information

This substance has no evidence of toxicity to reproduction.

Reproductive Toxicity - Development

Maternal toxicity: NOEC 250 ppm Inhalation. Rat

REACH dossier information

No evidence of reproductive toxicity in animal studies

CYCLO® PARTS, TOOLS & BRAKE CLEANER

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

390 mg/kg Oral Mouse

REACH dossier information

Not classified as a specific target organ toxicant after repeated exposure.

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity**

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

12.1. Toxicity**Acute Fish Toxicity**

Toxic to aquatic organisms.

Ecological information on ingredients.**TETRACHLOROETHYLENE (CAS: 127-18-4)****Acute Toxicity - Fish**

LC50 96 hours 5 mg/l Onchorhynchus mykiss (Rainbow trout)

REACH dossier information

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 8.5 mg/l Daphnia magna

REACH dossier information

Acute Toxicity - Aquatic Plants

EC50 72 hours 3.64 mg/l Freshwater algae

REACH dossier information

12.2. Persistence and degradability**Degradability**

The degradability of the product has not been stated.

Ecological information on ingredients.**TETRACHLOROETHYLENE (CAS: 127-18-4)****Phototransformation**

Not available.

Stability (Hydrolysis)

pH7 Half-life: 8.8 months @25°C

REACH dossier information

No biodegradation observed under test conditions.

12.3. Bioaccumulative potential**Bioaccumulative potential**

No data available on bioaccumulation.

Ecological information on ingredients.**TETRACHLOROETHYLENE (CAS: 127-18-4)****Bioaccumulation factor**

BCF 49

REACH dossier information

Partition coefficient

log Pow 2.53

REACH dossier information

12.4. Mobility in soil**Mobility:**

The product is partly soluble in water. May spread in the aquatic environment.

CYCLO® PARTS, TOOLS & BRAKE CLEANEREcological information on ingredients.TETRACHLOROETHYLENE (CAS: 127-18-4)**Adsorption/Desorption Coefficient**

Not available.

Henry's Law Constant

Not available.

Surface tension

32.1 mN/m @20°C

REACH dossier information

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

Ecological information on ingredients.TETRACHLOROETHYLENE (CAS: 127-18-4)

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

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

Recover and reclaim or recycle, if practical. Do not allow runoff to sewer, waterway or ground. 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 (TETRACHLOROETHYLENE)

14.3. Transport hazard class(es)

ADR/RID/ADN Class 2

ADR/RID/ADN Class Class 2: Gases

ADR Label No. 2.2 & 6.1

IMDG Class 2.2

ICAO Class/Division 2.2

ICAO Subsidiary risk 6.1

Transport Labels

CYCLO® PARTS, TOOLS & BRAKE CLEANER**14.4. Packing group**

| | |
|---------------------------|-----|
| ADR/RID/ADN Packing group | N/A |
| IMDG Packing group | N/A |
| ICAO Packing group | N/A |

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

**14.6. Special precautions for user**

EMS F-D, S-U

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

Not relevant No information required.

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. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

| | |
|-----------------|-----------|
| Revision Date | July 2012 |
| Supersedes date | July 2010 |
| SDS No. | 2 |
| Date | July 2010 |

CYCLO® PARTS, TOOLS & BRAKE CLEANER

Risk Phrases In Full

| | |
|--------|---|
| R40 | Limited evidence of a carcinogenic effect. |
| NC | Not classified. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

Hazard Statements In Full

| | |
|------|--|
| H351 | Suspected of causing cancer. |
| H411 | Toxic to aquatic life with long lasting effects. |

Disclaimer

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