

Safety Data Sheet

1. Identification of the substance / preparation and the Company

1.1 Identification of the substance or preparation

Code: 1503
 Product name: PLK

1.2 Use of the substance / preparation

1.3 Company identification

Name: COMEC ITALIA SRL
 Full address: PIAZZALE DEL LAVORO 149
 District and Country: 21044 CAVARIA (VA)
 Tel.: 0331 219516

e-mail address of the competent person responsible for the Safety Data Sheet

1.4 Emergency telephone

For urgent inquiries refer to: 0331 219516

2. Hazards Identification

2.1 Substance/Preparation Classification

This preparate is dangerous under 67/548/EEC and 1999/45/EC directives and subsequent amendments. Therefore, this preparate requires a safety data sheet according to the Regulation (EC) 1907/2006 and subsequent amendments. Further information on health and/or environmental hazards can be found in sections 11 and 12 of this sheet.

Danger Symbols: Xn
 Phrases R: 10-20

2.2 Danger Identification

Because of its chemical-physical features, this product is graded as flammable (flash-point 21 °C or higher and 55 °C or lower).
 HARMFUL BY INHALATION.

3. Composition / Information on ingredients

| Contains: Name | Concentration C | Classification |
|-----------------------|-----------------|----------------|
| CYCLOHEXANONE | 100,00 % | R 10 |
| Cas No 108-94-1 | | Xn R 20 |
| CE No 203-631-1 | | |
| Index No 606-010-00-7 | | |

The complete text of -R- phrases is specified in section 16.

4. First aid measures

EYES: Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.

SKIN: Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.

INHALATION: Remove to open air. If breathing is irregular, seek medical advice.

INGESTION: Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

Closed containers exposed to the heat of a fire may lead to pressure rise and explode. For information on environmental and health risks, protection of the respiratory airways, ventilation and individual protective measures, refer to the other sections of this sheet.

Extinguishing measures: CO₂, foam, chemical powder for flammable liquids. Water may not be effective to extinguish the fire, nevertheless it should be used to cool the containers exposed to flames and prevent fires and explosions. For leakage and spillage that have not caught fire, nebulized water may be used to disperse the flammable vapours and protect the people involved in stopping the leakage.

Equipment: wear equipment complete with helmet and face shield and protection of the neck, selfbreathing apparatus at pressure or demand, insulative jacket and trousers, with bands around the arms, legs and waist.

6. Accidental release measures

Extinguish the sources of ignition or heat; cover the spillage with absorbent material. Collect the spilt material and discard the remainder spraying water, if not controindicated (see section 10). For information on environmental and health risks, protection of the respiratory airways, ventilation and individual protective measures, refer to the other sections of this sheet.

Spillage in waters: remove the liquid from the surface with flameproof pumps or manual pumps or suitable absorbent material. Resort to sinking and/or dispersion of the product with suitable substances in open waters, if permitted by the law.

7. Handling and storage

Store in a well ventilated place, keeping the containers closed when not used. Do not smoke while handling. Keep far away from sources of heat, naked flames and sparks and other sources of ignition.

8. Exposure control / personal protection.

8.1 Exposure limit values

| Name | Type | Country | TWA/8h | | STEL/15min | | |
|---------------|-----------|---------|-------------------|-----|-------------------|-----|------|
| | | | mg/m ³ | ppm | mg/m ³ | ppm | |
| CYCLOHEXANONE | TLV-ACGIH | | 80 | | 200 | | Skin |
| | OEL | EU | 40,8 | | | | Skin |
| | OEL | IRL | | 10 | 20 | | Skin |
| | WEL | UK | | 10 | 20 | | Skin |

TLV of solvent mixture: 80 mg/m³

8.2 Exposure controls

In order to minimize exposure as far as possible, it is strongly recommended to use adequate individual protective measures, such as: masks suitable for the product, goggles, gloves and overall. Do not eat, drink or smoke while handling it. Accurately wash the hands with soap and water before meals and at the end of the work shift.

9. Physical and chemical properties

| | | | |
|--|----------------|------------|------------------------|
| Colour | Colourless | | |
| Odour | Characteristic | | |
| Appearance | liquid | | |
| Evaporation Rate | N.A. | | |
| Reactive Properties | N.A. | | |
| Partition coefficient: n-octanol/water | N.A. | | |
| pH | N.A. | | |
| Boiling point | 155 | °C | |
| Melting point | -31 | °C | |
| Flash point | 43 | °C | |
| Lower explosive limit | 1,3 | % (v/v) | |
| Upper explosive limit | 9,4 | % (v/v) | |
| Ignition temperature | 430 | °C | |
| Vapour pressure | 4,5 | hPa a 20°C | |
| Molecular weight | 98,15 | | |
| Specific gravity | 0,946 | g/cc | |
| VOC (Directive 1999/13/EC) : | 100,00 % | - 946,00 | g/litre of preparation |
| VOC (volatile carbon) : | 73,36 % | - 693,99 | g/litre of preparation |

10. Stability and reactivity

The product is stable in normal conditions of use and storage. When heated or in the event of a fire, carbonoxides may be released and vapours which are dangerous to health. The vapours may also form explosive mixtures with the air.

Cyclohexanone reacts violently with strong oxidizing agents and attacks different types of plastic materials (ref. H.C.S.)

11. Toxicological information

Acute effects: inhalation of this product is harmful. This product may irritate mucosas, the upper respiratory tract, eyes and skin. Exposure symptoms may include: stinging and irritated eyes, mouth, nose, throat; cough, respiratory disorders, dizziness, headache, nausea and sickness.

In the most serious cases, inhalation of this product may cause larynx and bronchial tube edema and irritation, chemical pneumonia and pulmonary edema. Ingestion of even small amounts of product may cause health problems (stomach pain, nausea, sickness, diarrhoea).

12. Ecological information

Use this product according to good working practices. Avoid litter. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

13. Disposal consideration

Consider the possibility of burning the product in a suitable incenerator.

Acid or basic products must always be neutralized before undergoing any treatment, including biological treatment whenever feasible. If the waste is solid, it can be disposed of in a landfill.

14. Transport information

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations.

These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

Road and rail transport:

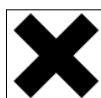
| | | |
|-----------------------|---------------|----------|
| ADR/RID: | 3 | UN: 1915 |
| Packing Group: | III | |
| Label: | 3 | |
| Nr. Kemler: | 30 | |
| Proper Shipping Name: | Cyclohexanone | |

Carriage by sea (shipping):

| | | |
|-----------------------|---------------|----------|
| IMO class: | 3 | UN: 1915 |
| Packing Group: | III | |
| Label: | 3 | |
| EMS: | F-E, S-D | |
| Proper Shipping Name: | Cyclohexanone | |

15. Regulatory information

Xn



HARMFUL

- R10 FLAMMABLE.
- R20 HARMFUL BY INHALATION.

- S25 AVOID CONTACT WITH EYES.

Label EC - Nr. EC: 203-631-1

Contains:
CYCLOHEXANONE

Danger labelling under directives 67/548/EEC and 1999/45/EC and following amendments and adjustments.

Workers exposed to this chemical agent must undergo health checks according to regulation 98/24/EC.

16. Other information

Text of -R- phrases quoted in section 3 of the sheet.

R 10 FLAMMABLE.
R 20 HARMFUL BY INHALATION.

GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments;
2. Directive 67/548/EEC and following amendments and adjustments (technical adjustment XXIX);
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament;
4. The Merck Index. - 10th Edition;
5. Handling Chemical Safety;
6. Niosh - Registry of Toxic Effects of Chemical Substances;
7. INRS - Fiche Toxicologique (toxicological sheet);
8. Patty - Industrial Hygiene and Toxicology;
9. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition;

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Changes to previous review

The following sections were modified:

01 / 09 / 14 / 15