

Date of issue: 25/02/2003

Edition: 4

Product and reference: 9035700000 / URKISOL-357

SAFETY DATA SHEET**1. IDENTIFICATION OF THE PREPARATION AND COMPANY**

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Product's Description:

Code: 9035700000

Name : URKISOL-357

Intended use: Solvent for diluting paints and/or varnishes.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Substances presenting a health hazard according to Directive 67/548/EEC and later adoptions and modifications:

| <u>CEE No.</u> | <u>Name</u> | <u>Conc. range</u> | <u>R-Phrases(*)</u> | <u>Symbol</u> |
|----------------|-----------------------------------|--------------------|---------------------|---------------|
| 601-021-00-3 | TOLUENE | 25 - 50 % | R20 R11 | F, Xn |
| 607-026-00-7 | ISOBUTYL ACETATE | 10 - 25 % | R66 R11 | F |
| 603-064-00-3 | MONOPROPYLENE GLYCOL METHYL ETHER | 25 - 50 % | R10 | |

*For full text see section 16.

3. HAZARDS IDENTIFICATION

Highly flammable. Harmful.

Product is flammable because of its composition in solvents.

4. FIRST AID MEASURES**General:**

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation:

Remove to fresh air, keep the patient warm and rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.

Eye contact:

Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.

Skin contact:

Remove contaminated cloth. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners.

Ingestion:

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

5. FIRE FIGHTING MEASURES.**Extinguishing media:**Recommended: alcohol resistant foam, CO₂ , powder, water spray/mist.

not to be used: water jet.

Recommendations:

Fire will produce dense black smoke containing hazardous substances of combustion. Exposure to decomposition products may be a hazard to health. Appropriate self-contained breathing equipment may be required. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours and contact

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with skin and eyes. Refer to protective measures listed in Sections 7 and 8. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with the local waste regulations (see Section 13). Do not allow to enter drains or water courses. Clean preferably with a detergent; avoid the use of solvents.

If the product enters drains or sewers the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the National Rivers Authority.

7. HANDLING AND STORAGE

Handling

Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the work exposure limits.

Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Keep the container tightly closed.

Exclude sources of heat and open flame. Non-sparking tools should be used.

Avoid skin and eye contact. Avoid inhalation of vapour and spray mist.

Smoking, eating and drinking should be prohibited in areas of storage and use.

For personal protection, see Section 8.

Never use pressure to empty: the container is not resistant to pressure.

Always keep in containers made of the same material as the supply container.

When the operatives are inside the spray booth, applying or not, and ventilation is not sufficient to control particles and solvent vapour concentrations, air-fed respiratory protective equipment should be worn, until the concentrations mentioned are below the work exposure limits.

Storage

Storage in accordance with the legal procedures for chemical products.

Observe the label precautions. Store between 5 and 30 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Containers which are opened should be properly resealed and kept in a upright position to prevent leakage. The principles contained in the HSE's guidance note Storage and Packaged Dangerous Substances should be observed when storing this product. Store separately from oxidising agents and strongly alkaline and strongly acidic materials, amines, alcohol and water.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and/or solvent vapours below the relevant occupational exposure limits, suitable respiratory protective equipment should be worn. (see 'Personal protection' below)

EXPOSURE LIMITS (ACGIH 1996)

TLV: Threshold Limit Value

TWA: Time Weighted Average

STEL: Short Term Exposure Limit

| CAS No. | Name | TLV-TWA | | TLV-STEL | |
|----------|-----------------------------------|---------|----------------------|----------|----------------------|
| | | (ppm) | (mg/m ³) | (ppm) | (mg/m ³) |
| 108-88-3 | TOLUENE | 50-D | 188-D | | |
| 110-19-0 | ISOBUTYL ACETATE | 150 | 713 | | |
| 107-98-2 | MONOPROPYLENE GLYCOL METHYL ETHER | 100 | 369 | 150 | 553 |

D - Indicates a risk of absorption through the skin.

Personal protection

All ppe, including rpe, used to control exposure to hazardous substances must be selected to meet requirements of the COSHH Regulations.

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Respiratory protection:

Air-fed respiratory protective equipment should be worn when this product is sprayed. This should be in addition to other measures taken to reduce exposure (e.g. in booth design and operation and process modifications). Non-essential and unprotected people should be excluded from the area if exposure is possible.

Hand protection:

When skin exposure may occur, advice should be sought from glove suppliers on appropriate types.

| | Recommended gloves | Alternative gloves |
|------------------------|---------------------------|---------------------------|
| Alcohol | Neoprene rubber | Nitril rubber |
| Glycol ester | Butyl rubber | Neoprene rubber |
| Halogen | Polyvinyl Alcohol | Nitril rubber |
| Ketone | Polyvinyl Alcohol | Latex rubber |
| Aliphatic hydrocarbons | Neoprene rubber | Nitril rubber |
| Aromatic hydrocarbons | Polyvinyl Alcohol | Nitril rubber |
| Esters | Polyvinyl Alcohol | Neoprene rubber |
| Ethers | Polyvinyl Alcohol | Nitril rubber |

Barrier creams may help to protect exposed areas of the skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

Eye protection:

Eye protection (e.g. glasses) designed to protect against liquid splashes should be worn.

Skin protection:

Anti-static cotton or cotton/synthetic overalls which are resistant to high temperatures are suitable.

Grossly contaminated cloth should be removed and the skin washed with soap and water or a proprietary skin cleaner.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|-------------------------|--------------------|--------------------|
| Physical state: | Fluid liquid | |
| Boiling point (°C): | > 35 °C | |
| Flash point: (°C): | 0 - 21 °C | Method: Closed cup |
| Vapour density: | heavier than air | |
| Vapour explosion limit: | 0,8 % | |
| Solubility in water: | Partially miscible | |
| pH: | | |
| Density: | 0,89± 0,02 | |

10. STABILITY AND REACTIVITY

Stable under the recommended storage and handling conditions. (See section 7). In case of fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced.

Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.

11. TOXICOLOGICAL INFORMATION

There is no data available on special product-tests.

Exposure to organic solvent vapours above work exposure limits may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on the kidneys, liver and central nervous systems. Symptoms can be headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, consciousness.

Repeated or prolonged contact with the product may result in removal of natural grease from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Splashes in the eyes may cause irritation and reversible local damage.

12. ECOLOGICAL INFORMATION

There is no data available on special product-tests.

The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

The product could contain a substance harmful or toxic for the environment. In this sense, check and see sections 2 and 16 following the **R**-phrases.

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13. DISPOSAL CONSIDERATIONS

Do not allow into drains or water courses or dispose of where ground or surface waters may be affected. It can be burned in appropriate installation, respecting the waste regulation of the local authorities. Regarding packaging, please refer to Directive 94/62 DOCE L 365 of 31/12/94.

14. TRANSPORT INFORMATION

Proper Shipping Name: Paint related material (vapour pressure at 50 °C not more than 110 kPa)
UN no:1263 Packing Group: II

Road/rail (ADR - RID)

Class: 3 Classification Code: F1 Label: 3

Sea (IMDG)

Class: 3 Marine Pollutant: 0 Label: 3
EmS: 3-05 MFAG: 310,313

Air (ICAO-IATA)

Class: 3 Label: 3

15. REGULATORY INFORMATION

Under the terms of Directive 88/379/EEC and later adoptions and modifications, the product is labelled as follows:

Harzard Symbols: (F) HIGHLY FLAMMABLE, (Xn) HARMFUL

Contains:

TOLUENE

R-Phrases:

R20/21/22.- Harmful by inhalation, in contact with skin and if swallowed.
R36/37.- Irritating to eyes and respiratory system.
R11.- Highly flammable.

S-Phrases:

S23.- Do not breathe vapour.
S16.- Keep away from sources of ignition. No smoking.
S24/25.- Avoid contact with eyes and skin.
S51.- Use only in well-ventilated areas.

Other Phrases:

16. OTHER INFORMATION

Complete text of R-phrases listed in Section 2:

R20.- Harmful by inhalation.
R11.- Highly flammable.
R66.- Repeated exposure may cause skin dryness or cracking.
R10.- Flammable.

In case of mixing different products, labels and safety data sheets of all products must be observed .

The information contained in this safety data sheet is based on the present state of knowledge and current national and EU legislation. As the specific conditions of use of this product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

The information of the safety data sheet provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

The information contained in this safety data sheet is provided in accordance with the requirements of Directive 2001/58/EEC and later adoptions and modifications.