

ASTRA UREFIN 550/10

MATERIAL SAFETY DATA SHEET

Hazardous according to criteria of Worksafe Australia

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

CODE: 0023217
PRODUCT NAME UREFIN 550/10

1.2 USE OF THE SUBSTANCE / PREPARATION

1.3 COMPANY IDENTIFICATION

Name ASTRA PAINTS (AUST) PTY LTD
Full address 280 Wolsley Place, Thomastown 3074
District and Country Victoria, Australia
Tel. 03 9469 5711 Fax 03 9469 5722

1.4 EMERGENCY TELEPHONE

For urgent inquiries refer to 280 Wolsley Place, Thomastown 3074.

2. COMPOSITION / INFORMATION ON INGREDIENTS

| Contains: | | |
|-----------------------|------------------|----------------|
| NAME | CONCENTRATION C | CLASSIFICATION |
| XYLENE | 17,4 <= C < 18,9 | R10 |
| Cas No 1330-20-7 | | Xn R20/21 |
| CE No 215-535-7 | | Xi R38 |
| Index No 601-022-00-9 | | |
| ISOBUTYL ALCOHOL | 6,3 <= C < 7,4 | R10 |
| Cas No 78-83-1 | | R67 |
| CE No 201-148-0 | | Xi R37/38 |
| Index No 603-108-00-1 | | Xi R41 |
| BUTANOL | 4 <= C < 4,5 | R10 |
| Cas No 71-36-3 | | R67 |
| CE No 200-751-6 | | Xn R22 |
| Index No 603-004-00-6 | | Xi R37/38 |
| N-BUTYL ACETATE | 9 <= C < 10,5 | Xi R41 |
| Cas No 123-86-4 | | R10 |
| CE No 204-658-1 | | R66 |
| Index No 607-025-00-1 | | R67 |
| ISOBUTYL ACETATE | 7 <= C < 8 | R66 |
| Cas No 110-19-0 | | F R11 |
| CE No 203-745-1 | | |
| Index No 607-026-00-7 | | |

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

3. HAZARDS IDENTIFICATION

3.1 Substance/Preparation Classification

This preparate is dangerous under 67/548/EEC and 1999/45/EC regulations and subsequent amendments. Therefore, this preparate requires a safety data sheet according to the 91/155/EC regulation 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:

10-20/21-38-41

3.2 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 AND IN CONTACT WITH SKIN.

IRRITATING TO SKIN.

RISK OF SERIOUS DAMAGE TO EYES.

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

Exclude sources of ignition. Cover with inert absorbent material. Collect spillages by means of sparkproof equipment. Use water only to remove residuals, so as not to run the risk of entering the sewer.

Do not let the product dry. Contaminated clothes must be left to soak in water before washing. In order to choose safety measures and protection equipment, please see 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.

| | | | | |
|------------------|-----|-------|---------|------|
| XYLENE | | | | |
| - TLV TWA | 434 | mg/m3 | ACGIH | |
| - TLV STEL | 651 | mg/m3 | ACGIH | |
| - OEL | 221 | mg/m3 | EU (8h) | skin |
| ISOBUTYL ALCOHOL | | | | |
| - TLV TWA | 152 | mg/m3 | ACGIH | |
| BUTANOL | | | | |
| - TLV TWA | 61 | mg/m3 | ACGIH | |
| N-BUTYL ACETATE | | | | |
| - TLV TWA | 713 | mg/m3 | ACGIH | |
| - TLV STEL | 950 | mg/m3 | ACGIH | |
| ISOBUTYL ACETATE | | | | |
| - TLV TWA | 713 | mg/m3 | ACGIH | |

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: | Pale Yellow |
| Odour: | Of the various solvents |
| Physical Appearance | Liquid |
| Solubility: | Immiscible |
| Viscosity | 45" - F4 - 100 cc. |
| Vapour density: | N.A. |
| Evaporation speed: | N.A. |
| Comburent properties: | No |
| Partition coefficient (n-octanol/water) | N.A. |
| Specific Weight (KGs./dm ³): | 0,98 |
| Solid Content % (±1): | 55 |
| VOC % (Volatile Organic Compounds) (±1): | 45 |
| pH | N.A. |
| Boiling point | N.A. |
| Flash point | >21°C |
| Explosive properties | N.A. |
| Vapour pressure | N.A. |
| Specific gravity | 0,980Kg/l |

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.

The xylene present is stable but may give violent reactions if placed in contact with strong oxidants such as nitric acid, sulfuric acid, perchlorates and similar agents. It is biodegradable in water and decomposes in the sunlight (photodegradable).

Butyl alcohol is biodegradable (MITI1984). The mixture reacts with strong oxidizing agents and with alkaline metals releasing flammable hydrogen. It attacks different types of plastic materials.

Nbutyl acetate easily decomposes with water especially when heated.

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

11. TOXICOLOGICAL INFORMATION

Acute effects: inhalation or cutaneous absorption of this product are harmful. This product may irritate mucosas, the upper respiratory tract, and eyes. 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. Upon contact with skin, this product may irritate it, causing an increase in skin temperature, swelling and itchiness. Ingestion of even small amounts of this product may cause health problems (stomach pain, nausea, sickness, diarrhoea).

This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

Xylene: has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

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: | 3 |
| UN: | 1263 |
| Packing Group: | III |
| Label: | 3 |
| Nr. Kemler: | 30 |
| Proper Shipping Name: | Pitture o materie simili alle pitture |
| Special Provision: | 640E |

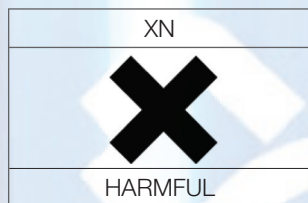
Carriage by sea (shipping):

| | |
|-----------------------|---------------------------------|
| IMO class: | 3 |
| UN: | 1263 |
| Packing Group: | III |
| Label: | 3 |
| EMS: | F-E, S-E |
| Proper Shipping Name: | Paint or paint related material |

Transport by air:

| | |
|-------------------------|-------|
| IATA: | 3 |
| UN: | 1263 |
| Packing Group: | III |
| Label: | 3 |
| Cargo: | |
| Packaging instructions: | 310 |
| Maximum quantity: | 220 L |
| Pass.: | |
| Packaging instructions: | 309 |
| Maximum quantity: | 60 L |

15. REGULATORY INFORMATION



| | |
|-----------|---|
| R10 | FLAMMABLE. |
| R20/21 | HARMFUL BY INHALATION AND IN CONTACT WITH SKIN. |
| R38 | IRRITATING TO SKIN. |
| R41 | RISK OF SERIOUS DAMAGE TO EYES. |
| S23 | DO NOT BREATHE GAS/FUMES/VAPOUR/SPRAY. |
| S26 | IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE. |
| S36/37/39 | WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION. |
| S51 | USE ONLY IN WELL-VENTILATED AREAS. |

Contains:
XYLENE

Danger labelling under regulations 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 2 of the sheet.

| | |
|--------------|--|
| R10 | FLAMMABLE. |
| R11 | HIGHLY FLAMMABLE. |
| R20/21 | HARMFUL BY INHALATION AND IN CONTACT WITH |
| SKIN. | |
| R22 | HARMFUL IF SWALLOWED. |
| R37/38 | IRRITATING TO RESPIRATORY SYSTEM AND SKIN. |
| R38 | IRRITATING TO SKIN. |
| R41 | RISK OF SERIOUS DAMAGE TO EYES. |
| R66 | REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS |
| OR CRACKING. | |
| R67 | VAPOURS MAY CAUSE DROWSINESS AND |
| DIZZINESS. | |

GENERAL BIBLIOGRAPHY

1. Regulation 1999/45/CE and following amendments;
2. Regulation 67/548/CEE and following amendments and adjustments (technical adjustment XXIX);
3. Regulation 91/155/CEE and following amendments;
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.