HURST SCIENTIFIC

# Safety Data Sheet
# Mounting Medium

## SECTION 1: Identification

### 1.1 GHS Product identifier

| | |
|---|---|
| Product name | Mounting Medium |
| Product number | UM, DPX, NEWMOU, NORMOU, FASMOU |
| Brand | Hurstchem |

### 1.2 Other means of identification

Ultramount, DPX, Fastmount, Safetymount, Newmount, Normount, Pertek

### 1.3 Recommended use of the chemical and restrictions on use

Mountant for Microscopy

### 1.4 Supplier's details

| | |
|---|---|
| Name | Hurst Scientific |
| Address | 2 Transit Place<br>6112 Forrestdale Wa<br>Australia |
| Telephone | 1300 778 068 |
| email | sales@hurstscientific.com.au |

### 1.5 Emergency phone number

Australian Poisons Information Centre 131 126
Australian Emergency Services 000

## SECTION 2: Hazard identification

**General hazard statement**
Classified as a Hazardous substance according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

### 2.1 Classification of the substance or mixture

**GHS classification in accordance with: UN GHS revision 8**

- Flammable liquids, Cat. 3
- Skin corrosion/irritation, Cat. 2
- Acute toxicity, dermal, Cat. 4

- Acute toxicity, inhalation, Cat. 4

### 2.2 GHS label elements, including precautionary statements

**Pictograms**

**Signal word** **Danger**

**Hazard statement(s)**

| | |
|---|---|
| H226 | Flammable liquid and vapor |
| H312 | Harmful in contact with skin |
| H315 | Causes skin irritation |
| H332 | Harmful if inhaled |

**Precautionary statement(s)**

| | |
|---|---|
| P203 | Obtain, read and follow all safety instructions before use. |
| P223 | Do not allow contact with water. |
| P241 | Use explosion-proof [electrical/ventilating/lighting/...] equipment. |
| P243 | Take action to prevent static discharges. |
| P260 | Do not breathe dust/fume/gas/mist/vapors/spray. |
| P264 | Wash … thoroughly after handling. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ ... |
| P301+P316 | IF SWALLOWED: Get emergency medical help immediately. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower]. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P316 | IF exposed or concerned: Get emergency medical help immediately. |
| P321 | Specific treatment (see … on this label). |
| P331 | Do NOT induce vomiting. |
| P332+P317 | If skin irritation occurs: Get medical help. |
| P337+P317 | If eye irritation persists: Get medical help. |
| P370+P378 | In case of fire: Use … to extinguish. |
| P403 | Store in a well-ventilated place. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to … |

### 2.3 Other hazards which do not result in classification

Classified as a Dangerous goods according to the ADG Code for the Transport of Dangerous Goods by Road and Rail (7th Edition).

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Hazardous components**

**1. XYLENES (MIXED)**

| | |
|---|---|
| Concentration | 30 - 60 % (weight) |
| EC no. | 215-535-7 |
| CAS no. | 1330-20-7 |
| Index no. | 601-022-00-9 |

- Flammable liquids, Cat. 3
- Acute toxicity, inhalation, Cat. 4
- Acute toxicity, dermal, Cat. 4
- Skin corrosion/irritation, Cat. 2

| | |
|---|---|
| H226 | Flammable liquid and vapor |
| H312 | Harmful in contact with skin |
| H315 | Causes skin irritation |
| H332 | Harmful if inhaled |

**Trade secret statement (OSHA 1910.1200(i))**

| | |
|---|---|
| Propietary Resin | Balance |

## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

| | |
|---|---|
| If inhaled | Evacuate to fresh air immediately. If unconscious place in recovery position, provide artificial respiration if breathing ceases. Seek medical attention. |
| In case of skin contact | Remove contaminated clothing and wash affected area with soap and water thoroughly. If irritation develops, seek medical attention. |
| In case of eye contact | Quickly and gently blot material from the eyes. Flush eyes with gentle flowing water for at least 20 minutes. Seek medical attention. |
| If swallowed | DO NOT induce vomiting. Wash mouth out with copious amounts of water. Seek immediate medical attention. |

Personal protective equipment for first-aid responders

Eye wash station, safety shower and First Aid kit.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically based on judgement of doctor and individual reactions of patient. Potential for chemical pneumonitis. Consider: gastric lavage with protected airway, administration of activated charcoal. Potential for cardiac sensitisation, particularly in abuse situations. Hypoxia or negative inotropes may enhance these effects. Consider: Oxygen therapy.

## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

Use Carbon Dioxide, dry chemical, foam. Try to contain spills, minimise spillage entering drains or water courses. Large fire: Fire fighting foam or water spray, If it is not dangerous, remove containers from fire areas. Even if the fire is suppressed, continuously spray water to the heated containers.

### 5.2 Specific hazards arising from the chemical

Toxic gases and smoke may evolve.

**5.3 Special protective actions for fire-fighters**
Wear SCBA (Self-Contained Breathing Apparatus) and full protective equipment.

**Further information**
Hazchem code 3Y

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**
Shut off all possible sources of ignition. Use clean, non-sparking tools and equipment. Increase ventilation. Water spray may be used to cool and disperse vapours, protect personnel, and dilute spills to form non-flammable mixtures. Wear appropriate protective clothing. If possible, contain the spill. Evacuate all unnecessary personnel.

**6.3 Methods and materials for containment and cleaning up**
Absorb with vermiculite or similar and place into a suitably labelled container. Dispose of waste according to local authority guidelines. Do not contaminate drains or waterways.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**
Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling.
Avoid contact with eyes, skin and clothing. Do not inhale product vapours. Avoid prolonged or repeated exposure.

**7.2 Conditions for safe storage, including any incompatibilities**
Store in a cool, dry, well-ventilated, fire-proof area. Keep containers tightly sealed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials.

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**

**1. XYLENES (MIXED) (CAS: 1330-20-7)**
TWA (Inhalation): 80 ppm (AU/SWA)

TWA (Inhalation): 350 mg/m3 (AU/SWA)

STEL (Inhalation): 150 ppm (AU/SWA)

STEL (Inhalation): 350 mg/m3 (AU/SWA)

**8.2 Appropriate engineering controls**
A system of local exhaust is recommended to keep employee exposures as low as possible, because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Use explosion proof ventilation to control airborne concentrations below the exposure guidelines/limits.

**8.3 Individual protection measures, such as personal protective equipment (PPE)**

**Eye/face protection**

Safety glasses or goggles

**Skin protection**
Chemical-resistant gloves and laboratory coat.

## SECTION 9: Physical and chemical properties

**Basic physical and chemical properties**

| | |
|---|---|
| Physical state | Liquid |
| Color | Clear |
| Odor | Aromatic odour |
| Melting point/freezing point | -48°C |
| Boiling point or initial boiling point and boiling range | 139°C |
| Flammability | Flammable liquid |
| Lower and upper explosion limit/flammability limit | 1-7% by volume in air |
| Flash point | 29°C |
| Auto-ignition temperature | 465°C |
| pH | Not available |
| Solubility | >1.016g/100ml @ 25°C |
| Vapor pressure | 8.29 torr (@ 25°C) |
| Density and/or relative density | 0.871 |
| Relative vapor density | 3.7 |

## SECTION 10: Stability and reactivity

**10.1 Reactivity**
Non-reactive under recommended conditions for use and storage.

**10.2 Chemical stability**
Stable under recommended conditions for use, storage and temperature.

**10.3 Possibility of hazardous reactions**
Polymerisation not expected occur.

**10.4 Conditions to avoid**
Avoid heat, sparks, open flames and other ignition sources. If containers are exposed to heat, container damage or explosion may occur. Keep away from water supply facilities and sewage.

**10.5 Incompatible materials**
Strong oxidising agents and sources of ignition.

**10.6 Hazardous decomposition products**
Toxic gases and smoke may evolve.

## SECTION 11: Toxicological information

**Information on toxicological effects**

**Acute toxicity**
Xylene: LD50 (Oral, Rat): 5000 mg/kg

**Skin corrosion/irritation**

Harmful in contact with skin. Irritating to skin. Skin irritation may result in a burning sensation, redness, swelling, and/or blisters.

**Serious eye damage/irritation**
Moderately irritating to eyes. May include a burning sensation, redness, swelling, and/or blurred vision. Lengthy exposure or delayed treatment may cause permanent damage.

**Respiratory or skin sensitization**
High vapour pressures may cause drowsiness and dizziness. Product may be mildly irritating, although unlikely to cause anything other than mild transient discomfort.

**Germ cell mutagenicity**
No classification.

**Carcinogenicity**
Xylene is a Group 3 IARC listed chemical – Not classifiable as to its carcinogenicity to humans.

**Reproductive toxicity**
No classification.

**Specific target organ toxicity (STOT) - single exposure**
No classification.

**Specific target organ toxicity (STOT) - repeated exposure**
No classification.

**Aspiration hazard**
No classification.

**Additional information**

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XYLENES (MIXED): *TOXICITY:
typ. dose mode specie amount unit other
TCLo ihl hmn 200 ppm
LCLo ihl man 10000 ppm/6H
LD50 orl rat 4300 mg/kg
LC50 ihl rat 5000 ppm/4H
LD50 scu rat 1700 mg/kg
LD50 ipr mus 1548 mg/kg
LDLo ipr gpg 2000 mg/kg
LDLo ipr mam 2000 mg/kg
LCLo ihl gpg 450 ppm
LDLo orl hmn 50 mg/kg

*AQTX/TLM96: 100-10 ppm

*SAX TOXICITY EVALUATION:
THR = MODERATE via inhalation and oral routes.

*CARCINOGENICITY:
Review: IARC Cancer Review: Human Inadequate Evidence
IARC Cancer Review: Animal Inadequate Evidence
IARC: Not classifiable as a human carcinogen (Group 3) [610]

Status: NTP Carcinogenesis Studies (Gavage); No Evidence: Male and Female Rat, Male and Female Mouse [620]

*MUTATION DATA:
test lowest dose | test lowest dose
---------- ---------- | ---------- ----------
cyt-smc 1 mmol/tube |

*TERATOGENICITY:
Reproductive Effects Data:
TCLo: ihl-rat 1000 mg/m3/24H (9-14D preg)
TCLo: ihl-rat 50 mg/m3/6H (1-21D preg)
TCLo: ihl-rat 600 mg/m3/24H (7-15D preg)
TDLo: orl-mus 20600 ug/kg (6-15D preg)
TCLo: ihl-mus 4000 ppm/6H (6-12D preg)
TDLo: orl-mus 31 mg/kg (6-15D preg)
TCLo: ihl-mus 2000 ppm/6H (6-12D preg)

*STANDARDS, REGULATIONS & RECOMMENDATIONS:
OSHA: Federal Register (1/19/89) and 29 CFR 1910.1000 Subpart Z
Transitional Limit: PEL-TWA 100 ppm [610]
Final Limit: PEL-TWA 100 ppm; STEL 150 ppm [610]
ACGIH: TLV-TWA 100 ppm; STEL 150 ppm [610]
NIOSH Criteria Document: Recommended Exposure Limit to this compound-air: TWA 100 ppm; Ceiling Limit 200 ppm/10M [015,610]
NFPA Hazard Rating: Health (H): 2
Flammability (F): 3
Reactivity (R): 0
H2: Materials hazardous to health, but areas may be entered freely with full-faced mask self-contained breathing apparatus which provides eye protection (see NFPA for details).
F3: Materials which can be ignited under almost all normal temperature conditions (see NFPA for details).
R0: Materials which are normally stable even under fire exposure conditions and which are not reactive with water (see NFPA for details).

*OTHER TOXICITY DATA:
Skin and Eye Irritation Data:
eye-hmn 200 ppm
skn-rbt 100% MOD
skn-rbt 500 mg/24H MOD
eye-rbt 87 mg MLD
eye-rbt 5 mg/24H SEV
Standards and Regulations: DOT-Hazard: Flammable liquid; Label: Flammable liquid
DOT-IMO: Flammable or Combustible liquid; Label: Flammable liquid
Status: NIOSH Analytical Methods: see hydrocarbons, aromatic, 1501
EPA TSCA Chemical Inventory, 1986
EPA TSCA 8(a) Preliminary Assessment Information, Final Rule
EPA Genetox Program 1986, Negative: In vitro SCE-human lymphocytes; In vitro SCE-human
EPA TSCA Test Submission (TSCATS) Data Base, December 1986
Meets criteria for proposed OSHA Medical Records Rule

## SECTION 12: Ecological information

**Toxicity**
May cause adverse effects in the environment.

**Persistence and degradability**
Not available for this mixture.

**Bioaccumulative potential**
Not expected to bio-accumulate significantly.

**Mobility in soil**
Not available for this mixture.

**Endocrine disrupting properties**
Do not contaminate drains and waterways.

## SECTION 13: Disposal considerations

**Disposal methods**

**Product disposal**
Refer to local authority guidelines. Advise flammable nature. Should be suitable for disposal by licensed contractor.

**Packaging disposal**
Refer to local authority guidelines. Advise flammable nature. Should be suitable for disposal by licensed contractor.

## SECTION 14: Transport information

| | | |
|---|---|---|
| 14.1 | UN Number | 1866 |
| | Hazchem emergency action code (EAC) | 3Y |
| 14.2 | UN Proper Shipping Name | Resin solution, Flammable |
| 14.3 | Transport hazard class(es) | 3 |
| 14.4 | Packing group | III |

**Special precautions for user**
Flammable

## SECTION 15: Regulatory information

**15.2 Chemical Safety Assessment**
• Poison Schedule: S6
• TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight hour working day, for a five-day week.
• STEL (Short Term Exposure Limit): The average airborne concentration over a 15-minute period which should not be exceeded at any time during a normal eight-hour workday.

## SECTION 16: Other information

**16.1 Further information/disclaimer**
This SDS is prepared in accordance with the Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011). The information contained within is believed to be accurate at the date of

preparation/review. Hurst Scientific makes no claims of the accuracy or completeness of the information and excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. It is recommended the user make their own determinations as to the suitability of the information provided to the application in which the product is to be used.


### 16.2 Preparation information

References

1. Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011).
2. Safe Work Australia, National Code of Practice for the Labelling of Workplace Hazardous Chemicals (2015).
3. Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants (2013)
4. National Transport Commission Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code); Canprint: Canberra (2007), Volume 1, 7th Edition.
5. Standards Australia, Dangerous Goods Initial Emergency Response Guide: Australian Handbook (SAA/SNZ HB76); Homebush (2004).