MATERIAL SAFETY DATA SHEET
INSULATING VARNISH

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product Name: INSULATING VARNISH
Product No.: MR8008, EMR8008, ZE
Proper Shipping Name: PAINT (HYDROCARBON DISTILLATE)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Application: Resin.
Uses Advised Against: At this moment in time we do not have information on use restrictions. They will be included in this safety data sheet when available.

1.3. Details of the supplier of the safety data sheet
Supplier: H K WENTWORTH PTY LIMITED
P.O. BOX 339
BROOKVALE, NSW 2100
AUSTRALIA
TEL: 02 9938 1566
FAX: 02 9938 1467
GENERAL MANAGER

1.4. Emergency telephone number
Tel: 029938 1566 between 8.30am and 5.00pm EST
National Emergency Telephone Number
Australian National Poison Centre; 13 11 26

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Environment
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Dispose of waste and residues in accordance with local authority requirements.

2.2. Label elements
Contains: ETHYL METHYL KETOXIME
Label In Accordance With (EC) No. 1272/2008

Signal Word: Warning
Hazard Statements:
H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H411 Toxic to aquatic life with long lasting effects.
**Precautionary Statements**

- P281 Use personal protective equipment as required.
- P280 Wear protective gloves, eye and face protection.

**Supplementary Precautionary Statements**

- P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
- P261 Avoid breathing vapour/spray.
- P302+352 IF ON SKIN: Wash with plenty of soap and water.
- P333+313 If skin irritation or rash occurs: Get medical advice/attention.

**Supplemental Label Information (EU)**

- EUH066 Repeated exposure may cause skin dryness or cracking.

### 2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

**Statement Of Hazardous Nature**

HAZARDOUS SUBSTANCE (According to criteria of NOHSC). DANGEROUS GOODS (According to ADG Code).

**ADR Class**

- Class 3: Flammable liquids.

**ADR Pack Group**

- III

**UN No. Road**

- 1263

**Emergency Action Code**

- •3Y

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

**HYDROCARBON DISTILLATE**

- **CAS-No.: 64742-82-1**
- **EC No.: 265-185-4**

<table>
<thead>
<tr>
<th>Classification (EC 1272/2008)</th>
<th>Classification (67/548)</th>
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</thead>
<tbody>
<tr>
<td>Flam. Liq. 3 - H226</td>
<td>Xn;R65.</td>
</tr>
<tr>
<td>EUH066</td>
<td>N;R51/53.</td>
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<tr>
<td>Aquatic Chronic 2 - H411</td>
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</table>

**XYLENE**

- **CAS-No.: 1330-20-7**
- **EC No.: 215-535-7**

<table>
<thead>
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<tbody>
<tr>
<td>Flam. Liq. 3 - H226</td>
<td>R10</td>
</tr>
<tr>
<td>Acute Tox. 4 - H312</td>
<td>Xn;R20/21</td>
</tr>
<tr>
<td>Acute Tox. 4 - H332</td>
<td>Xn;R38</td>
</tr>
<tr>
<td>Skin Irrit. 2 - H315</td>
<td></td>
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**DEAROMATISED KEROSINE**

- **CAS-No.: 64742-47-8**
- **EC No.: 265-149-8**

<table>
<thead>
<tr>
<th>Classification (EC 1272/2008)</th>
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<tbody>
<tr>
<td>Asp. Tox. 1 - H304</td>
<td>Xn;R65.</td>
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</table>
**INSULATING VARNISH**

**ETHYL METHYL KETOXIME**

<table>
<thead>
<tr>
<th>CAS-No.: 96-29-7</th>
<th>EC No.: 202-496-6</th>
</tr>
</thead>
</table>

Classification (EC 1272/2008)
- Acute Tox. 4 - H312
- Eye Dam. 1 - H318
- Skin Sens. 1 - H317
- Carc. 2 - H351

Classification (67/548)
- Carc. Cat. 3; R40
- Xn; R21
- R43
- Xi; R41

**BENZENE, C10-13-ALKYL DERIVATIVES**

<table>
<thead>
<tr>
<th>CAS-No.: 67774-74-7</th>
<th>EC No.: 267-051-0</th>
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</thead>
</table>

Classification (EC 1272/2008)
- Not classified.

Classification (67/548)
- N; R50

The Full Text for all R-Phrases and Hazard Statements is Displayed in Section 16.

**Composition Comments**

Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels Ingredients are registered on AICS

**SECTION 4: FIRST AID MEASURES**

4.1. Description of first aid measures

**Inhalation**
Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

**Ingestion**
DO NOT INDUCE VOMITING! If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Rinse mouth thoroughly. Get medical attention.

**Skin contact**
Remove affected person from source of contamination. Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention if irritation persists after washing.

**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

4.3. Indication of any immediate medical attention and special treatment needed

Treat Symptomatically.

**SECTION 5: FIREFIGHTING MEASURES**

5.1. Extinguishing media

Extinguishing media
Use: Alcohol resistant foam. Powder. Dry chemicals, sand, dolomite etc.

5.2. Special hazards arising from the substance or mixture

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

Unusual Fire & Explosion Hazards
No unusual fire or explosion hazards noted.

5.3. Advice for firefighters
Special Fire Fighting Procedures
Move container from fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours.

Protective equipment for fire-fighters
Self contained breathing apparatus and full protective clothing must be worn in case of fire.

Emergency Action Code •3Y

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
Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up
Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers.

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. The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See section 12 as well. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

7.2. Conditions for safe storage, including any incompatibilities
Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

Storage Class
Flammable liquid storage.

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

<table>
<thead>
<tr>
<th>Name</th>
<th>STD</th>
<th>TWA - 8 Hrs</th>
<th>STEL - 15 Min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>XYLENE</td>
<td>ES-TWA</td>
<td>80 ppm</td>
<td>350 mg/m3</td>
<td>150 ppm</td>
</tr>
</tbody>
</table>

Ingredient Comments
No exposure limits noted for ingredient(s).

8.2. Exposure controls

Protective equipment

Process Conditions
Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station.

Engineering measures
Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.
INSULATING VARNISH

Respiratory equipment
No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Use respiratory equipment with combination filter, type A2/P3. EN14387

Hand protection
Protective gloves must be used if there is a risk of direct contact or splash. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Nitrile gloves are recommended. Gloves should conform to EN374

Eye protection
Wear approved safety goggles. EN166

Other Protection
Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures
DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Clear Amber</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Solubility</td>
<td>Immiscible with water</td>
</tr>
<tr>
<td>Boiling Point (°C)</td>
<td>152 - 198 (305.6 - 388.4F)</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.920 @ 20 °c (68F)</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>0.32 kPa @ 20 °c (68F)</td>
</tr>
<tr>
<td>Viscosity</td>
<td>1500 - 2300 @ 25 °c (77F)</td>
</tr>
<tr>
<td>Flash point (°C)</td>
<td>38 (100.4F) CC (Closed cup)</td>
</tr>
<tr>
<td>Auto Ignition Temperature (°C)</td>
<td>230 (446F)</td>
</tr>
<tr>
<td>Flammability Limit - Lower(%)</td>
<td>0.9</td>
</tr>
<tr>
<td>Flammability Limit - Upper(%)</td>
<td>8</td>
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</tbody>
</table>

9.2. Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
No specific reactivity hazards associated with this product.

10.2. Chemical stability
Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions
Not determined.

Hazardous Polymerisation
Will not polymerise.

10.4. Conditions to avoid
Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials To Avoid

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
INSULATING VARNISH

Other Health Effects
This substance has no evidence of carcinogenic properties.

Inhalation
Vapours may cause headache, fatigue, dizziness and nausea. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

Ingestion
May cause stomach pain or vomiting.

Skin contact
May cause sensitisation by skin contact. Prolonged or repeated exposure may cause severe irritation.

Eye contact
Irritating to eyes.

Toxicological Information on Ingredients:

**XYLENE (CAS: 1330-20-7)**

Acute toxicity:
- Acute Toxicity (Oral LD50) 3523 mg/kg Rat
- Acute Toxicity (Dermal LD50) 12126 mg/kg Rabbit
- Acute Toxicity (Inhalation LC50) 2700 mg/l (vapours) Rabbit 4 hours

Aspiration Hazard
- Inhalation Harmful by inhalation. Upper respiratory irritation. Central nervous system depression. Vapours may cause drowsiness and dizziness.
- Ingestion Swallowing concentrated chemical may cause severe internal injury. May cause nausea, headache, dizziness and intoxication. Diarrhoea.
- Skin contact Harmful in contact with skin. Irritating to skin.
- Eye contact May cause severe irritation to eyes.

Target Organs
Central nervous system Liver Kidneys

**HYDROCARBON DISTILLATE (CAS: 64742-82-1)**

Ecotoxicity
Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

Ecological Information on Ingredients:

**XYLENE (CAS: 1330-20-7)**

Ecotoxicity
The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
INSULATING VARNISH

12.1. Toxicity

Ecological Information on Ingredients:

**XYLENE (CAS: 1330-20-7)**

**Acute Toxicity Aquatic Invertebrates**
EC50 48 hours 1.0 mg/l Daphnia magna

**Acute Toxicity - Aquatic Plants**
IC50 72 hours 2.2 mg/l

12.2. Persistence and degradability

**Degradability**
There are no data on the degradability of this product.

Ecological Information on Ingredients:

**XYLENE (CAS: 1330-20-7)**

**Degradability**
The product is biodegradable.

12.3. Bioaccumulative potential

**Bioaccumulative potential**
No data available on bioaccumulation.

Ecological Information on Ingredients:

**XYLENE (CAS: 1330-20-7)**

**Bioaccumulation factor**
BCF: 25.9

**Partition coefficient**
3.2

12.4. Mobility in soil

Ecological Information on Ingredients:

**XYLENE (CAS: 1330-20-7)**

**Mobility**
The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

Ecological Information on Ingredients:

**XYLENE (CAS: 1330-20-7)**

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

None known.

Ecological Information on Ingredients:

**XYLENE (CAS: 1330-20-7)**

Not determined.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

**General information**
Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

**13.1. Waste treatment methods**
Dispose of waste and residues in accordance with local authority requirements.
SECTION 14: TRANSPORT INFORMATION

**General**
For US Domestic transportation this product is classified as a Consumer Commodity. For International transportation this product is classified as UN1263 PAINT

14.1. UN number

<table>
<thead>
<tr>
<th>UN No.</th>
<th>Road</th>
<th>1263</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN No.</td>
<td>Sea</td>
<td>1263</td>
</tr>
<tr>
<td>UN No.</td>
<td>Air</td>
<td>1263</td>
</tr>
</tbody>
</table>

14.2. UN proper shipping name

Proper Shipping Name: PAINT (HYDROCARBON DISTILLATE)

14.3. Transport hazard class(es)

<table>
<thead>
<tr>
<th>ADR Class No.</th>
<th>3</th>
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</thead>
<tbody>
<tr>
<td>ADR Class</td>
<td>Class 3: Flammable liquids.</td>
</tr>
<tr>
<td>ADR Label No.</td>
<td>3</td>
</tr>
<tr>
<td>IMDG Class</td>
<td>3</td>
</tr>
<tr>
<td>ICAO Class</td>
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</table>

**Transport Labels**

![Flammable Liquid](image)

14.4. Packing group

<table>
<thead>
<tr>
<th>ADR Pack Group</th>
<th>III</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMDG Pack Gr.</td>
<td>III</td>
</tr>
<tr>
<td>Air Pack Gr.</td>
<td>III</td>
</tr>
</tbody>
</table>

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

![Hazardous Substance](image)

14.6. Special precautions for user

EMS: F-E, S-E
Emergency Action Code: •3Y
Tunnel Restriction Code: (D/E)

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

No information required.

UDF Phrase 1: Class 3: Flammable liquid

SECTION 15: REGULATORY INFORMATION

**Poisons Schedule Number**

NONE
INSULATING VARNISH

National Regulations And References
National Model Regulations for the Control of Workplace Hazardous Substances.
National Code of Practice for the Control of Workplace Hazardous Substances.
National Code of Practice for the Labelling of Workplace Substances.
National Code of Practice for the Preparation of Material Safety Data Sheets.
Approved Criteria for Classifying Hazardous Substances.
Exposure Standards for Atmospheric Contaminants in the Occupational Environment.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Authorisations (Title VII Regulation 1907/2006)
No specific authorisations are noted for this product.

Restrictions (Title VIII Regulation 1907/2006)
No specific restrictions of use are noted for this product.

15.2. Chemical Safety Assessment
No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

<table>
<thead>
<tr>
<th>Issued By</th>
<th>Helen O'Reilly</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision Date</td>
<td>JULY 2014</td>
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<tr>
<td>Revision</td>
<td>5</td>
</tr>
<tr>
<td>SDS No.</td>
<td>10990</td>
</tr>
</tbody>
</table>

Risk Phrases In Full
- R10 Flammable.
- R20/21 Harmful by inhalation and in contact with skin.
- R21 Harmful in contact with skin.
- R65 Harmful: may cause lung damage if swallowed.
- R38 Irritating to skin.
- R40 Limited evidence of a carcinogenic effect.
- R43 May cause sensitisation by skin contact.
- R66 Repeated exposure may cause skin dryness or cracking.
- R41 Risk of serious damage to eyes.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R50 Very toxic to aquatic organisms.

Hazard Statements In Full
- H318 Causes serious eye damage.
- H315 Causes skin irritation.
- H226 Flammable liquid and vapour.
- H332 Harmful if inhaled.
- H312 Harmful in contact with skin.
- H304 May be fatal if swallowed and enters airways.
- H317 May cause an allergic skin reaction.
- EUH066 Repeated exposure may cause skin dryness or cracking.
- H351 Suspected of causing cancer.
- H411 Toxic to aquatic life with long lasting effects.

Disclaimer
This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.