1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME: POLYURETHANE VARNISH - GLOSS
PRODUCT NO.: 301/V606/8
APPLICATION: As a clear varnish
SUPPLIER: COO-VAR
Lockwood Street
Hull
HU2 0HN
01482 328053
01482 219266
info@coo-var.co.uk

CONTACT PERSON: as above

2 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>EC No.</th>
<th>CAS-No.</th>
<th>Content</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2,4-TRIMETHYLBENZENE</td>
<td>202-436-9</td>
<td>95-63-6</td>
<td>&lt;1</td>
<td>R10 Xn; R20 X; R36/37/38 N; R51/53</td>
</tr>
<tr>
<td>Cobalt Carboxylate</td>
<td>237-015-9</td>
<td>13586-82-8</td>
<td>&lt;1</td>
<td>Xn; R22 X; R38 N; R51/53 R43</td>
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<tr>
<td>CUMENE</td>
<td>202-704-5</td>
<td>98-82-8</td>
<td>&lt;1</td>
<td>R10 Xn; R65 X; R37 N; R51/53</td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td>202-849-4</td>
<td>100-41-4</td>
<td>&lt;1</td>
<td>F R11 Xn; R20</td>
</tr>
<tr>
<td>LO White Spirit</td>
<td>265-150-3</td>
<td>64742-48-9</td>
<td>&lt;1</td>
<td>Xn; R65 R10 R66</td>
</tr>
<tr>
<td>MESITYLENE</td>
<td>203-604-4</td>
<td>108-67-8</td>
<td>&lt;1</td>
<td>R10 X; R37 N; R51/53</td>
</tr>
<tr>
<td>SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH.</td>
<td>265-191-7</td>
<td>64742-88-8</td>
<td>30-60%</td>
<td>Xn; R65 N; R51/53 R10 R66</td>
</tr>
<tr>
<td>XYLENE</td>
<td>215-535-7</td>
<td>1330-20-7</td>
<td>&lt;1</td>
<td>R10 Xn; R20/21 X; R38</td>
</tr>
</tbody>
</table>

The Full Text for all R-Phrases are Displayed in Section 16

3 HAZARDS IDENTIFICATION

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking.
CLASSIFICATION: N; R51/53. R66.

4 FIRST-AID MEASURES

GENERAL INFORMATION
General first aid, rest, warmth and fresh air. Do not give victim anything to drink if they are unconscious.

INHALATION
Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues. Place unconscious person on the side in the recovery position and ensure breathing

INGESTION
DO NOT induce vomiting. Get medical attention immediately. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.

SKIN CONTACT
Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water.

EYE CONTACT
Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA
Extinguish with foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire.
POLYURETHANE VARNISH - GLOSS

SPECIAL FIRE FIGHTING PROCEDURES
Be aware of danger for fire to re-start. Cool containers exposed to flames with water until well after the fire is out. Do not allow runoff to sewer, waterway or ground.

UNUSUAL FIRE & EXPLOSION HAZARDS
FLAMMABLE. Solvent vapours may form explosive mixtures with air.

SPECIFIC HAZARDS
By heating and fire, harmful vapours/gases may be formed.

PROTECTIVE MEASURES IN FIRE
Selection of respiratory protection for fire fighting; follow the general fire precautions indicated in the workplace.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Do not smoke, use naked flames or other sources of ignition. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

ENVIRONMENTAL PRECAUTIONS
Do not discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS
Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Should be prevented from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS
Observe workplace exposure limits and minimise the risk of inhalation of vapours and mist. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Do not eat, drink or smoke when using the product.

USAGE DESCRIPTION
Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container

STORAGE PRECAUTIONS

STORAGE CLASS
Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Name</th>
<th>Std</th>
<th>LT - ppm</th>
<th>LT - mg/m3</th>
<th>ST - ppm</th>
<th>ST - mg/m3</th>
</tr>
</thead>
<tbody>
<tr>
<td>XYLENE</td>
<td>WEL</td>
<td>50 ppm(Sk)</td>
<td>220 mg/m3(Sk)</td>
<td>100 ppm(Sk)</td>
<td>441 mg/m3(Sk)</td>
</tr>
<tr>
<td>ETHYL BENZENE</td>
<td>WEL</td>
<td>100 ppm(Sk)</td>
<td>441 mg/m3(Sk)</td>
<td>125 ppm(Sk)</td>
<td>552 mg/m3(Sk)</td>
</tr>
<tr>
<td>CUMENE</td>
<td>WEL</td>
<td>25 ppm(Sk)</td>
<td>125 mg/m3(Sk)</td>
<td>50 ppm(Sk)</td>
<td>250 mg/m3(Sk)</td>
</tr>
<tr>
<td>1,2,4-TRIMETHYL BENZENE</td>
<td>WEL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

INGREDIENT COMMENTS
WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT

ENGINEERING MEASURES
Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded.

RESPIRATORY EQUIPMENT
No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION
Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.
EYE PROTECTION
Wear splash-proof eye goggles to prevent any possibility of eye contact.

OTHER PROTECTION
Wear appropriate clothing to prevent reasonably probable skin contact.

HYGIENE MEASURES
No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Thick, cloudy fluid</td>
</tr>
<tr>
<td>Colour</td>
<td>Colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>of solvents</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Relative Density</td>
<td>0.88 @ 20°C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>2.0 (Rotothinner) Ps @ 25°C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>39 approx. CC (Closed cup)</td>
</tr>
<tr>
<td>Flammability Limit - Lower (%)</td>
<td>0.8</td>
</tr>
</tbody>
</table>

### 10 STABILITY AND REACTIVITY

STABILITY
Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID
Avoid heat, flames and other sources of ignition. Avoid contact with acids and oxidising substances.

MATERIALS TO AVOID

HAZARDOUS DECOMPOSITION PRODUCTS
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### 11 TOXICOLOGICAL INFORMATION

INHALATION
Vapour from this chemical can be hazardous when inhaled. Vapour may irritate respiratory system or lungs.

INGESTION
Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

SKIN CONTACT
Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Prolonged or repeated exposure may cause severe irritation.

EYE CONTACT
May cause temporary eye irritation.

HEALTH WARNINGS
This product has low toxicity. Only large volumes may have adverse impact on human health.

MEDICAL CONSIDERATIONS
Skin disorders and allergies. Avoid vomiting and normal rinse of stomach because of risk of aspiration.

### 12 ECOLOGICAL INFORMATION

ECOTOXICITY
The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

BIOACCUMULATION
The product contains potentially bioaccumulating substances.

DEGRADABILITY
The product is not expected to be biodegradable.

### 13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION
Do not allow to enter drains, sewers or watercourses.

DISPOSAL METHODS
Dispose of waste and residues in accordance with local authority requirements.

### 14 TRANSPORT INFORMATION
POLYURETHANE VARNISH - GLOSS

UK ROAD CLASS 3.3
PROPER SHIPPING NAME PAINT PRODUCT
ROAD TRANSPORT NOTES Avoid releasing to the environment.
RAIL TRANSPORT NOTES Avoid releasing to the environment.
SEA TRANSPORT NOTES Do not release into the environment.

UN NO. ROAD 1263 UK ROAD PACK GR. III
ADR CLASS NO. 1263 ADR CLASS III
ADR PACK GROUP III HAZARD NO. (ADR) Class 3: Flammable liquids.

CEFIC TEC(R) NO. 30GF1-III, 30GF1-sp UN NO. SEA 1263
IMDG CLASS 3.3 IMDG PACK GR. III
EMS 3-05 MARINE POLLUTANT

UN NO. AIR 1263 ICAO CLASS 3.3
AIR PACK GR. III

15 REGULATORY INFORMATION

LABELLING

Dangerous for the environment

RISK PHRASES
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R66 Repeated exposure may cause skin dryness or cracking.

SAFETY PHRASES
S37 Wear suitable gloves.
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.
P14 Contains Cobalt Carboxylate. May produce an allergic reaction.
S2 Keep out of the reach of children
S16 Keep away from sources of ignition - No smoking.
S29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
S46 If swallowed, seek medical advice immediately and show this container or label.
S51 Use only in well-ventilated areas.

UK REGULATORY REFERENCES
ENVIRONMENTAL LISTING
EU DIRECTIVES
POLYURETHANE VARNISH - GLOSS

STATUTORY INSTRUMENTS
Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE
Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES
Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

NATIONAL REGULATIONS

16 OTHER INFORMATION

REVISION COMMENTS
Major revision (CHIP3) Revisions to sections: (1), (2), (3), (8), (14), (15), and (16) Revision for WEL(Workplace Exposure Limit) section 8.

ISSUED BY
Technical Dept. (P.E.)

REVISION DATE 23 November 2005

REV. NO./REPL. SDS GENERATED 1 / replaces all previous

SDS NO. 10658

SAFETY DATA SHEET STATUS
Approved.

DATE Date printed _________________

SIGNATURE Initials ___________________________

RISK PHRASES IN FULL
R10 Flammable.
R11 Highly flammable.
R20 Harmful by inhalation.
R20/21 Harmful by inhalation and in contact with skin.
R22 Harmful if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.
R37 Irritating to respiratory system.
R38 Irritating to skin.
R43 May cause sensitisation by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.

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.