01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>Robbialac Anticorrosive Paint</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICATION</td>
<td>Primer &amp; Decoration for Interior and exterior metal surfaces, Applied by brush and Spray (See the label of the container for details)</td>
</tr>
<tr>
<td>SUPPLIER</td>
<td>Lankem Ceylon PLC</td>
</tr>
<tr>
<td></td>
<td>No. 267, Union Place,</td>
</tr>
<tr>
<td></td>
<td>Colombo 02,</td>
</tr>
<tr>
<td></td>
<td>Sri Lanka.</td>
</tr>
<tr>
<td></td>
<td>Tel: +94 117766000</td>
</tr>
<tr>
<td></td>
<td>Fax: +94 114734683</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.lankemrobbialac.com">www.lankemrobbialac.com</a></td>
</tr>
<tr>
<td>CONTACT PERSON</td>
<td>Head of Technical</td>
</tr>
<tr>
<td></td>
<td>Tel: +94 114831817</td>
</tr>
</tbody>
</table>

02. HAZARDS IDENTIFICATION

Flammable, repeated exposure may cause skin dryness or cracking.

CLASSIFICATION     R10, R66.

PHYSICAL AND CHEMICAL HAZARDS

Flammable liquid and vapours

HUMAN HEALTH

Inhalation of organic solvent vapours may be hazardous to health.
## 03. 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>Cobalt carboxylate</td>
<td>216-452-9</td>
<td>1588-79-0</td>
<td>&lt; 1%</td>
<td>Xn; R22. Xi; R38. R43.</td>
</tr>
<tr>
<td>ETHANEDIOL</td>
<td>203-473-3</td>
<td>107-21-1</td>
<td>&lt; 1%</td>
<td>Xn; R22</td>
</tr>
<tr>
<td>Ethoxylated Isotridecylic alcohol mixture</td>
<td></td>
<td></td>
<td>&lt; 0.5%</td>
<td>Xi; R36/38. N; R51/53.</td>
</tr>
<tr>
<td>ETHYL METHYL KETOXIME</td>
<td>202-496-6</td>
<td>96-29-7</td>
<td>&lt; 1%</td>
<td>Carc3; R40 Xn; R21 R43 Xi; R41</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>Naptha (Petroleum), hydodesulfurized heavy - D60 High Flash</td>
<td>64742-82-1</td>
<td></td>
<td>1-5%</td>
<td>Xn; R65. R66.</td>
</tr>
<tr>
<td>Naptha (petroleum), hydrotreated heavy - D40 Dearomatised</td>
<td>265-150-3</td>
<td>64742-48-9</td>
<td>1-2%</td>
<td>Xn; R65. R10, R66.</td>
</tr>
<tr>
<td>Naptha (petroleum), low aromatize LAWS - High Flash</td>
<td>64742-48-9</td>
<td></td>
<td>10-30%</td>
<td>Xn; R65. R66.</td>
</tr>
<tr>
<td>Nonylphenol ethoxylate, branched</td>
<td>68412-54-4</td>
<td></td>
<td>&lt; 1%</td>
<td>Xn; R22. Xi; R41. N; R51/53.</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 Xi; R38</td>
</tr>
</tbody>
</table>

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

## 04. FIRST-AID MEASURES

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

### NOTES TO THE PHYSICIAN
Consult safety data sheet.

### INHALATION
Remove to fresh air, keep the patient warm and at rest. If breathing has stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in a prone position with head to the side (recovery position) and seek medical advice.

### INGESTION
If accidentally swallowed obtain immediate medical advice. Show this safety data sheet. Keep at rest. Do not induce vomiting. If conscious give milk or water to drink.
SKIN CONTACT

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

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.

05. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Do not use water jet.

SPECIAL FIRE FIGHTING PROCEDURES

Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

UNUSUAL FIRE & EXPLOSION HAZARDS

No unusual fire or explosion hazards noted.

SPECIFIC HAZARDS

Fire will produce dense black smoke containing hazardous products of combustion (see section10). Decomposition products may be hazardous to health.

PROTECTIVE MEASURES IN FIRE

Appropriate self-contained breathing apparatus may be required.

06. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Exclude sources of ignition and ventilate the area. Floors may become slippery. Warn others of the dangers present and exclude non-essential personnel. Refer to protective measures listed in sections 7 and 8. Avoid breathing vapours.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains or water courses. If the product enters drains or sewers the local water company should be contacted immediately; in the case of contamination or streams, rivers or lakes, the Environment Agency.
SPILL CLEAN UP METHODS

Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a clearly labeled suitable container for disposal in accordance with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Solvent vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. For personal protection, see section 8. Avoid skin and eye contact. Avoid inhalation of vapour. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational 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, sparks and open flame. Smoking, eating and drinking should be prohibited in areas of storage and use. Never use pressure to empty; the container is not a pressure vessel. Always keep in the same material as the supply container. Good housekeeping standards and regular safe removal of waste materials will minimize risks of spontaneous combustion and other fire hazards. The Manual Handling Operations Regulations may apply to the handling of containers of this product. Packs with volume content of 4 litres or more may be marked with a maximum gross weight. To assist employers the following method of calculating the weight for any pack size is given. Take the pack size volume in litres and multiply this figure by the specific gravity value given in section 9. This will give the net weight of the coating in kilograms. Allowance will then have to be made for the immediate packaging to give an approximate gross weight.

USAGE DESCRIPTION

Apply product only in accordance with methods listed in section 1.

STORAGE PRECAUTIONS

Although the storage of this product is not subject to specific statutory requirements, observe the label precautions. This product should store between 5°C and 40°C in a dry and well ventilated place away from sources of heat, ignition and direct sunlight. No smoking.

STORAGE CLASS

The storage of this product is not subject to any statutory requirements.
**08. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<table>
<thead>
<tr>
<th>Name</th>
<th>Std</th>
<th>LT - ppm</th>
<th>LT - mg/m$^3$</th>
<th>ST - ppm</th>
<th>ST - mg/m$^3$</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHANEDIOL</td>
<td>WEL</td>
<td>52 ppm</td>
<td>350 mg/m$^3$</td>
<td>104 ppm</td>
<td>552 mg/m$^3$</td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td>WEL</td>
<td>100 ppm (Sk)</td>
<td>441 mg/m$^3$ (Sk)</td>
<td>125 ppm (Sk)</td>
<td>552 mg/m$^3$ (Sk)</td>
</tr>
<tr>
<td>Naptha (Petroleum), hydrosulfurized heavy - D60 High Flash</td>
<td>WEL</td>
<td>56 ppm</td>
<td>350 mg/m$^3$</td>
<td>No std.</td>
<td>No std.</td>
</tr>
<tr>
<td>Naptha (petroleum), hydrotreated heavy - D40 Dearomatised</td>
<td>WEL</td>
<td>197 ppm</td>
<td>1200 mg/m$^3$</td>
<td>No std.</td>
<td>No std.</td>
</tr>
<tr>
<td>Naptha (petroleum), hydrotreated heavy - D60 High Flash</td>
<td>WEL</td>
<td>197 No std.</td>
<td>1200 No std.</td>
<td>ppm</td>
<td>mg/m$^3$</td>
</tr>
<tr>
<td>XYLENE</td>
<td>WEL</td>
<td>50 ppm (Sk)</td>
<td>220 mg/m$^3$ (Sk)</td>
<td>100 ppm (Sk)</td>
<td>441 mg/m$^3$ (Sk)</td>
</tr>
</tbody>
</table>

**INGREDIENT COMMENTS**

LT = Long term exposure limit. ST = Short term exposure limit. ppm = Parts per million mg/m$^3$ = Milligrams per cubic metre. Sk = Indicates a risk of absorption through skin.

**PROTECTIVE EQUIPMENT**

![Eye protection](image1.png) ![Gloves](image2.png)

**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 solvent vapour below the relevant workplace exposure limits, suitable respiratory protection should be worn. (See personal protection below). Dry sanding, flame cutting and/ or welding of the dry paint film will give rise to dust and/ or hazardous fumes. Wet sanding should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be worn.

**RESPIRATORY EQUIPMENT**

If exposure to hazardous substances identified above cannot be controlled by the provision of local exhaust ventilation and good general extraction, suitable respiratory protective equipment should be worn. Where high levels of solvent vapour are likely to arise (e.g. confined spaces) air fed respiratory protective equipment should be worn.
HAND PROTECTION

When skin exposure may occur wear gloves. Advice should be sought from glove suppliers on appropriate types. 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 designed against liquid splashes should be worn.

OTHER PROTECTION
This is not necessary under normal conditions of use.

HYGIENE MEASURES
Always wash your hands before eating, smoking or using the toilet.

PERSONAL PROTECTION
See PPE listed above.

SKIN PROTECTION
Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.

ENVIRONMENTAL EXPOSURE CONTROLS

See section 12.

09. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPEARANCE</td>
<td>Viscous liquid</td>
</tr>
<tr>
<td>COLOUR</td>
<td>Range of colours</td>
</tr>
<tr>
<td>ODOR</td>
<td>Characteristic</td>
</tr>
<tr>
<td>SOLUBILITY</td>
<td>Immiscible with water</td>
</tr>
<tr>
<td>BOILING POINT (°C)</td>
<td>176</td>
</tr>
<tr>
<td>VAPOUR DENSITY (air=1)</td>
<td>Heavier than air</td>
</tr>
<tr>
<td>FLASH POINT (°C)</td>
<td>38 Sh CC (Setaflash closed cup)</td>
</tr>
<tr>
<td>RELATIVE DENSITY</td>
<td>0.95 - 1.20 @ 30 °C</td>
</tr>
<tr>
<td>VISCOSITY</td>
<td>200 Sec – 250 sec in F4 cup @ 30 °C</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

STABILITY
Stable under the recommended storage and handling conditions (see section 7).
MATERIALS TO AVOID

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

HAZARDOUS DECOMPOSITION PRODUCTS
In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced.

11. TOXICOLOGICAL INFORMATION

GENERAL INFORMATION

Exposure to organic solvent vapours in excess of the stated workplace exposure limit may result in adverse effects on the liver renal and central nervous systems.

INHALATION
Exposure through inhalation may result in the following effects: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

INGESTION
Ingestion may result in the following effects: sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea. Other effects may be described as exposure to vapours.

SKIN CONTACT
Solvents may cause the above effects by exposure through the skin. Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

EYE CONTACT
Splashes in the eyes may cause irritation and reversible local damage.

HEALTH WARNINGS

At elevated temperature, may release 2-butanone oxime/ ethyl methyl ketoxime, which is classified as a category 3 carcinogen and as a skin sensitizer.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

These products are not classified as dangerous for the environment, but contain substances dangerous for the environment. See section 3 for details. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters. The Air Pollution Control requirements of regulations made under the Environmental Protection Act may apply to the use of this product.
13. DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Waste including emptied containers, are classed as special waste and should be disposed of in accordance with regulations made under the Environmental Protection Act, Special Waste regulations. Using the information provided in this safety data sheet, advice should be obtained from the environment agency as to how the special waste regulations apply.

DISPOSAL METHODS

Do not allow into drains or water courses or dispose of where ground or surface waters may be affected.

14. TRANSPORT INFORMATION

GENERAL Transport within user’s premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage.

<table>
<thead>
<tr>
<th>PROPER SHIPPING NAME</th>
<th>PAINT</th>
<th>RID PACK GROUP</th>
<th>IMDG CLASS</th>
<th>AIR CLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN NO. ROAD</td>
<td>1263</td>
<td>III</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>UN NO. AIR</td>
<td>1263</td>
<td>III</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>UN NO. SEA</td>
<td>1263</td>
<td>III</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ADR CLASS NO.</td>
<td>3</td>
<td>III</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ADR PACK GROUP</td>
<td>III</td>
<td>HAZCHEM CODE</td>
<td>3Y</td>
<td></td>
</tr>
<tr>
<td>ADR LABEL NO.</td>
<td>3</td>
<td>MARINE POLLUTANT</td>
<td>No.</td>
<td></td>
</tr>
<tr>
<td>ADR CLASS</td>
<td>3: Flammable liquids</td>
<td>CEFIC TEC(R) NO.</td>
<td>30GF1-III, 30GF1-sp</td>
<td></td>
</tr>
<tr>
<td>HAZARD No. (ADR)</td>
<td>30</td>
<td>EMS</td>
<td>F-E, S-E</td>
<td></td>
</tr>
<tr>
<td>RID CLASS NO.</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION

RISK PHRASES

R10 Flammable
R66 Repeated exposure may cause skin dryness or cracking.

SAFETY PHRASES

S2 Keep out of the reach of children
S37 Wear suitable gloves.
S46 If swallowed, seek medical advice immediately and show this container or label.
S51 Use only in well-ventilated areas
S56 Dispose of this material and its container to hazardous or special waste collection point.
P14 Contains Cobalt carboxylate, ETHYL METHYL KETOXIME
May produce an allergic reaction
16. OTHER INFORMATION

GENERAL INFORMATION

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 instruction. As the specific conditions of use of the product are outside the supplier’s control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

REVISION COMMENTS

This information is provided in a revised format to that previously produced.

ISSUED BY Head of Technical

REVISION DATE -
REVISION NO. Revision 00

RISK PHRASES IN FULL

R10 Flammable
R11 Highly flammable
R20 Harmful by inhalation
R20/21 Harmful by inhalation and in contact with skin
R21 Harmful in contact with skin
R22 Harmful if swallowed
R36/38 Irritating to eyes and skin
R38 Irritating to skin
R40 Limited evidence of a carcinogenic effect
R41 Risk of serious damage to eyes.
R43 May cause sensitization 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

The information provided on this data sheet is not intended to be complete & is provided as general advice only. It is the responsibility of the user to ensure that the product is suitable for the purpose for which wishes to use it. As we have no control over the treatment of the product, the standard of surface preparation of the substrate or other factor affecting the use of this product, we are not responsible for its performance nor would we accept any liability what so ever or how ever so ever arising from the use of this product unless specifically agreed to in writing by us. The information contained in this data sheet may be modified by us from time to time, and without notice in the light of our experience & continuous product development.