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

1.1 Identification of the article
1.1.1 Commercial Product Name
DICCO metal lacquer

1.1.2 Product code
005 1436

1.2 Use of the Substance/Preparation
1.2.1 Intended use
Painting work
Description: Nitrocellulose lacquer

1.3 Identification of the company
1.3.1 Supplier
Tikkurila Paints Oy

1.3.2 Contact information:
P.O.Box P.O. Box 53
Postcode and post office FIN-01301 VANTAA
FINLAND
Telephone +358 9 857 731
Telefax +358 9 8577 6902
Business ID 1069501-0

1.4 Emergency telephone number
1.4.1 Telephone number, name and address
Tikkurila Oy, Environment and Safety: +358 9 857 71

2. COMPOSITION/INFORMATION ON INGREDIENTS

2.1 Hazardous components
2.1.1 CAS number EINECS
2.1.2 Chemical name of the substance
2.1.3 Concentration
2.1.4 Classification

<table>
<thead>
<tr>
<th>CAS number</th>
<th>EINECS</th>
<th>Chemical name of the substance</th>
<th>Concentration</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-49-0</td>
<td>400727</td>
<td>Naphtha, hydrotreated light (aliphatic hydrocarbon solvent)</td>
<td>10 - 25 %</td>
<td>F, Xn, N; R11-38-65-67-51/53</td>
</tr>
<tr>
<td>141-78-6</td>
<td>138369</td>
<td>Ethyl acetate</td>
<td>10 - 20 %</td>
<td>F; Xi R11-36-66-67</td>
</tr>
<tr>
<td>1330-20-7</td>
<td>202791</td>
<td>Xylene</td>
<td>1 - 5 %</td>
<td>Xn; R10-20/21-38</td>
</tr>
<tr>
<td>67-63-0</td>
<td>708357</td>
<td>Isopropanol</td>
<td>1 - 5 %</td>
<td>F; Xi R11-36-67</td>
</tr>
<tr>
<td>78-83-1</td>
<td>186903</td>
<td>Isobutanol</td>
<td>10 - 20 %</td>
<td>Xi; R10-37/38-41-67</td>
</tr>
<tr>
<td>123-86-4</td>
<td>203850</td>
<td>Butyl acetate</td>
<td>25 - 50 %</td>
<td>--; R10-66-67</td>
</tr>
<tr>
<td>9004-70-0</td>
<td>407763</td>
<td>Nitrocellulose</td>
<td>1 - 5 %</td>
<td>F; R11</td>
</tr>
</tbody>
</table>

2.1.7 Further information
TLV = Threshold Limit Values / ACGIH 2005
3. HAZARDS IDENTIFICATION

Highly flammable, F
Harmful, Xn
Irritating to skin. Risk of serious damage to eyes. Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Information on hazard labelling in section 15.1.

4. FIRST AID MEASURES

4.1 Additional advice
In all cases of doubt, or when symptoms persist, seek medical attention.

4.2 Inhalation
Remove to fresh air, keep patient warm and at rest.

4.3 Skin contact
Remove contaminated clothing. Wash skin throughly with soap and water or use recognized skin cleanser.

4.4 Eye contact
Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

4.5 Ingestion
If accidentally swallowed obtain immediate medical attention. Keep at rest. DO NOT induce vomiting.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media
Use foam, CO₂, powder or water spray.

5.2 Extinguishing media which must not be used for safety reasons
Waterjet

5.3 Specific hazards
Fire will produce dense black smoke, which contains decomposition products. Avoid breathing the smoke.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions
Avoid breathing vapours. Exclude sources of ignition.

6.2 Environmental precautions
Do not allow to enter drains or water courses.

6.3 Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand or vermiculite and place in a container for disposal according to local regulations. Clean preferably with a detergent; avoid the use of solvents. Note! Products containing oxidative drying oil or alkyd (linseed oil varnish, alkyd paints and lacquers) have a possibility of auto-ignition in porous materials damped by the product. This kind of waste must be collected and stored e.g. in water before disposal or burning.

7. HANDLING AND STORAGE

7.1 Handling
Vapours are heavier than air and may form explosive mixtures with air. Good ventilation must be provided. Keep away from sources of ignition. Take precautionary measures against static discharges.

7.2 Storage
Keep containers tightly closed. Store in a cool, dry, well ventilated place away from sources of heat and direct sunlight.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Limit Values
8.1.1 Occupational exposure limit values
Etyliasetaatti 150 ppm (8 h)

8.2 Exposure controls
8.2.1 Occupational exposure controls
Provide adequate ventilation. Comply with the health and safety at work laws.

8.2.1.1 Respiratory protection
Use appropriate certified respirators, with gas and vapour filter A, during sanding with dust filter P2, if ventilation is insufficient. During spray-application use respirators with gas, vapour and dust filter AP.

8.2.1.2 Hand protection
Always wear protective gloves (e.g. nitrile rubber). Barrier creams may also help to protect the exposed areas of the skin.

8.2.1.3 Eye protection
Safety eyewear must be used, specially during spray-application.

8.2.1.4 Skin and body protection
Protective clothing must be used during spray-application.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General Information (appearance, odour)
Viscous liquid, strong odour

9.2 Important Health Safety and Environmental Information
9.2.2 Boiling point/range 77 °C *)
9.2.3 Flash point - 10 °C **)\n9.2.5 Explosive properties
9.2.5.1 Lower explosion limit 2,1 - 11,5 vol-% *); 1,0 - 6,7 til-% **)
9.2.7 Vapour pressure 9,7 kPa (20°C *); 38,3 kPa (60 °C **)\n9.2.8 Relative density 0,88
9.2.9 Solubility
9.2.9.1 Water solubility Insoluble
9.3 Other data
Evaporation rate (BuAc=1) :4,3 *)
*) = Ethyl acetate
**) = Naphtha, hydrotreated light

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid
Solvent vapours may form explosive mixtures with air.

10.2 Materials to avoid
Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.3 Hazardous decomposition products
Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity
See section 11.5.
11.2 Primary irritation
The product contains butanol, which causes a risk of serious damage to eyes.

11.3 Sensitisation
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11.5 Human experience
11.5.1 Inhalation: Solvent vapours and spray mist harmful if inhaled. Long term exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache and dizziness.
11.5.2 Skin contact: Repeated or prolonged contact with the preparation may cause removal of the natural fat from the skin resulting in contact dermatitis. Splashes in the eyes may cause irritation.
11.5.3 Other effects: Harmful if taken internally. The product contains solvent naphtha, which may cause lung damage if swallowed.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity
12.1.1 Aquatic toxicity
Naphtha, hydrotreated light: LL50 = 11 mg/l, fish, algae, daphnia magna; harmful

12.3 Persistence and degradability
12.3.1 Biodegradation
Naphtha, hydrotreated light: readily biodegradable (estimate)

12.4 Bioaccumulative potential
Naphtha, hydrotreated light: octanol/water partition coefficient log Kow = 2-7

12.5 Other adverse effects
There is no data available on the preparation itself. The product should not be allowed to enter drains or water courses.

13. DISPOSAL CONSIDERATIONS
13.1 Product residues: Gather residues into waste containers. Destroy according to the rules given by local authorities. EWC-code for liquid waste is e.g 08 01 11 (waste paint and varnish containing organic solvents or other dangerous substances).
13.2 Packaging: Empty cans should be recycled or disposed of in accordance with local regulations.

14. TRANSPORT INFORMATION

14.1 UN-No 1263
14.2 Packaging group II
14.3 Land transport
14.3.1 Class 3
14.3.3 Description of the goods paint
14.4 Sea transport
14.4.1 IMDG Page 3
14.4.2 Proper shipping name paint
14.4.3 Further Information EmS: F-E,S-E

15. REGULATORY INFORMATION

15.1 Information on the warning label
15.1.1 Letter code of the warning symbol and indications of danger for the preparation
F Highly flammable
Xn Harmful
15.1.2 Names of the ingredients given on the warning label
Naphtha, hydrotreated light
Isobutanol

15.1.3 R-phrase(s)
R11 Highly flammable.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R67 Vapours may cause drowsiness and dizziness.

15.1.4 S-phrase(s)
S2 Keep out of the reach of children.
S16 Keep away from sources of ignition - No smoking.
S23 Do not breathe vapour/spray.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S29 Do not empty into drains.
S33 Take precautionary measures against static discharges.
S39 Wear eye/face protection.
S51 Use only in well ventilated areas.
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

16. OTHER INFORMATION

16.1 List of the relevant R phrases
R11 Highly flammable.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R67 Vapours may cause drowsiness and dizziness.
R10 Flammable.
R20/21 Harmful by inhalation and in contact with skin.
R36 Irritating to eyes.
R37/38 Irritating to respiratory system and skin.
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.

16.4 Additional information available from:
The information of this MSDS is based on the present state of our knowledge and on current EC laws. It is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the products' properties. Additional information available from:
Tikkurila Oy, Product Safety, P.O. Box 53, FIN-01301 VANTAA, FINLAND, Telephone +358 9 857 71, Fax +358 9 8577 6936, E-mail: productsafety@tikkurila.fi

Signature a/akk