SAFETY DATA SHEET
MICACEOUS IRON OXIDE SILVER GREY

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

PRODUCT NAME          MICACEOUS IRON OXIDE SILVER GREY
SUPPLIER              TEAL & MACKRILL LIMITED
                      LOCKWOOD STREET
                      HULL
                      HU2 0HN
                      +44(0)1482 320194(T)
                      +44(0)1482 219266(F)
                      info@teamac.co.uk
PRODUCT NO.            421/F167/1134
APPLICATION            Paint
CONTACT PERSON         Technical Department - 08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri as above

2 HAZARDS IDENTIFICATION

Flammable. Repeated exposure may cause skin dryness or cracking. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>EC No.</th>
<th>CAS-No.</th>
<th>Content</th>
<th>Classification (67/548)</th>
</tr>
</thead>
<tbody>
<tr>
<td>White spirit</td>
<td>265-185-4</td>
<td>64742-82-1</td>
<td>10-30%</td>
<td>Xn;R65. N;R51/53. R10, R66.</td>
</tr>
<tr>
<td>Ditallowdimethylammonium salts with bentonite</td>
<td>273-219-4</td>
<td>68953-58-2</td>
<td>1-5%</td>
<td>-</td>
</tr>
<tr>
<td>Naphtha (Petroleum), hydro treated heavy</td>
<td>265-150-3</td>
<td>64742-48-9</td>
<td>&lt;1%</td>
<td>Xn;R65. 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 Xi;R38</td>
</tr>
<tr>
<td>METHANOL</td>
<td>200-659-6</td>
<td>67-56-1</td>
<td>&lt;1%</td>
<td>F;R11 T;R23/24/25,R39/23/24/25</td>
</tr>
<tr>
<td>ETHANOL</td>
<td>200-578-6</td>
<td>64-17-5</td>
<td>&lt;1%</td>
<td>F;R11</td>
</tr>
<tr>
<td>ETHYL METHYL KETOXIME</td>
<td>202-496-6</td>
<td>96-29-7</td>
<td>&lt;1%</td>
<td>Carc. Cat. 3;R40 Xn;R21 R43 Xi;R41</td>
</tr>
<tr>
<td>Cobalt Carboxylate</td>
<td>237-015-9</td>
<td>13586-82-8</td>
<td>&lt;1%</td>
<td>Xn;R22. Xi;R38. N;R51/53. R43.</td>
</tr>
</tbody>
</table>

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

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.
MICACEOUS IRON OXIDE SILVER GREY

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.

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
When heated and in case of 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 open fire 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 occupational 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. The Manual Handling Operations Regulations may apply to the handling of containers of this product. 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
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. The storage and use of this product is subject to the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR). The requirements are given in the HSE Approved Code of Practice and Guidance, Storage of Danderous Substances: DSEAR. Up to 250 litres of liquids with a flashpoint above 32°C but below 55°C may be kept in a workroom provided they are kept in closed containers in a marked, fire-resisting cupboard or bin. Larger quantities must be kept in a separate, marked storeroom conforming to the structural requirements contained in the HSE guidance note Storage of Flammable Liquids in Containers.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION
MICACEOUS IRON OXIDE SILVER GREY

<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>Ditallowdimethylammonium salts with bentonite</td>
<td>OES</td>
<td>10 mg/m^3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ETHANOL</td>
<td>WEL</td>
<td>1000 ppm</td>
<td>1920 mg/m^3</td>
<td></td>
</tr>
<tr>
<td>METHANOL</td>
<td>WEL</td>
<td>200 ppm(Sk)</td>
<td>266 mg/m^3(Sk)</td>
<td>250 ppm(Sk)</td>
</tr>
<tr>
<td>Naphtha (Petroleum), hydro treated heavy</td>
<td>WEL</td>
<td>1000 mg/m^3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>White spirit</td>
<td>OES</td>
<td>600 mg/m^3</td>
<td></td>
<td></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>
</tr>
</tbody>
</table>

WEL = Workplace Exposure Limit.

INGREDIENT COMMENTS
WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT

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

RESPIRATORY EQUIPMENT
No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational 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

APPEARANCE           Viscous Dark coloured liquid Granular
COLOUR               Various colours
ODOUR                of solvents
SOLUBILITY           Insoluble in water
RELATIVE DENSITY     1.45 - 1.50 @ 20 C  VAPOUR DENSITY (air=1) heavier than air
FLASH POINT (°C)     37 CC (Closed cup).  FLAMMABILITY LIMIT - LOWER(%) 0.6
FLAMMABILITY LIMIT - UPPER(%) 8.0

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.
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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.

WASTE CLASS
When this coating, in its liquid state, as supplied, becomes a waste, it is categorised as hazardous waste, with code 08 01 11* (SOLVENT BASED LIQUID WASTE). Part-used containers, not drained and/or rigorously scraped out and containing dried residues of the supplied coating, are categorised as hazardous waste, with code 08 01 11* (SOLVENT BASED LIQUID WASTE). If mixed with other wastes, the above waste code may not be applicable. Used containers, drained and/or rigorously scraped out and containing dry residues of the supplied coating, are categorised as non-hazardous waste, with code 15 01 02 (plastic packaging) or 15 01 04 (metal packaging).

14 TRANSPORT INFORMATION

GENERAL
This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG.

UK ROAD CLASS
3

PROPER SHIPPING NAME
PAINT

PROPER SHIPPING NAME
Contains White Spirit, Class 3, PG III, (38 °C c.c), MARINE POLLUTANT

UN NO. ROAD
1263

UK ROAD PACK GR.
III

ADR CLASS NO.
1263

ADR CLASS
Class 3: Flammable liquids.

ADR PACK GROUP
III

TUNNEL RESTRICTION CODE
(D/E)

RID CLASS NO.
3

RID PACK GROUP
III
MICACEOUS IRON OXIDE SILVER GREY

UN NO. SEA 1263 IMDG CLASS 3
IMDG PACK GR. III EMS F-E, S-E
MARINE POLLUTANT No. UN NO. AIR 1263
AIR CLASS 3 AIR PACK GR. III

15 REGULATORY INFORMATION

LABELLING

Dangerous for the environment

RISK PHRASES

R10 Flammable.
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.
S46 If swallowed, seek medical advice immediately and show this container or label.
S51 Use only in well-ventilated areas.
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.
P14 Contains Cobalt Carboxylate, ETHYL METHYL KETOXIME. May produce an allergic reaction.
S57 Use appropriate containment to avoid environmental contamination.
S60 This material and its container must be disposed of as hazardous waste.

UK REGULATORY REFERENCES


ENVIRONMENTAL LISTING


EU DIRECTIVES


STATUTORY INSTRUMENTS

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

APPROVED CODE OF PRACTICE


GUIDANCE NOTES

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

NATIONAL REGULATIONS


16 OTHER INFORMATION

REVISION COMMENTS

Issued in new format for Reach compliance Changes to composition information. Correction to classification Corrections to Section 14, Transport Information

ISSUED BY
Technical Dept. (P.E.)

REVISION DATE 02/09/2009

REV. NO./REPL. SDS GENERATED 5

SDS NO. 10679
MICACEOUS IRON OXIDE SILVER GREY

SAFETY DATA SHEET STATUS
Approved.
DATE Date printed_____________________
SIGNATURE Initials_______________________

RISK PHRASES IN FULL
R10 Flammable.
R20/21 Harmful by inhalation and in contact with skin.
R22 Harmful if swallowed.
R21 Harmful in contact with skin.
R65 Harmful: may cause lung damage if swallowed.
R11 Highly flammable.
R38 Irritating to skin.
R40 Limited evidence of a carcinogenic effect.
R43 May cause sensitisation by skin contact.
NC Not classified.
R66 Repeated exposure may cause skin dryness or cracking.
R41 Risk of serious damage to eyes.
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

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.