

TYGRIS TECHNICAL DATA SHEET

Precision Aerosols

Green Mould Protector

CODE: **IS70**

Spray on protection against moisture for moulds and metal tooling

An effective moisture repellent, formulated to provide an ultra-thin green film for protection from corrosion of moulds and tooling whilst in store.



Benefits:

Suitable for use on all metals
De-watering capability
Protects from oxidisation and rusting
Ultra-fine film does not interfere with precision-fit parts or with gauging and measurement
Green colour to show treated parts
Resists creeping into ejector pins
Moulds off quickly

Technical Data:

Appearance:

Dark green viscous liquid drying to a thin green coating

Odour:

Slightly sweet

Contents:

Blend of refined mineral oils, sarcosine and imidazoline surfactants, sulphate modified hydrocarbon and paraffin waxes in white spirit and naphtha calcium sulfanate, methanol, dye and hydrocarbon propellants

Storage:

Below 50°C

Solubility:

Insoluble in water

Flash Point:

<0°C

Temperature range:

Ambient temperatures

Specific Gravity:

0.755

Pack Sizes:

12 x 400ml cans

Directions for Use:

Shake can well before use. Spray an even coating onto surface from 30cm. Do not over-apply. Leave to dry to an even, visible film.

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: IS70 GREEN MOULD PROTECTOR
Article number: IS70

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Tygris Industrial
Further information obtainable from: Technical Department

1.4 Emergency telephone number: Tel +44 (0) 1294 311 066

2. Hazards identification

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Xi;R38. F+;R12. N;R51/53. R67.

2.2. Label elements

Labelling



Irritant



Extremely flammable



Dangerous for the environment

Risk Phrases

R12 Extremely flammable.
R38 Irritating to skin.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67 Vapours may cause drowsiness and dizziness.

Safety Phrases

S16 Keep away from sources of ignition - No smoking.
S23 Do not breathe vapour/spray.
S24 Avoid contact with skin.
S60 This material and its container must be disposed of as hazardous waste.
P14 Contains CALCIUM SULFONATE. May produce an allergic reaction.
S2 Keep out of the reach of children.
S51 Use only in well-ventilated areas.

2.3. Other hazards

3. Composition/information on ingredients

3.2. Mixtures

| | |
|---|---|
| BUTANE CAS-No.: 106-97-8 Classification (EC 1272/2008) Flam. Gas 1 - H220 | 5-10% EC No.: 203-448-7 Classification (67/548/EEC) F+;R12 |
| CALCIUM SULFONATE CAS-No.: Classification (EC 1272/2008) Not classified. | < 1% EC No.: 263-093-9 Classification (67/548/EEC) Xi;R36. R43,R53. |
| ISOBUTANE CAS-No.: 75-28-5 Classification (EC 1272/2008) Flam. Gas 1 - H220 | 1-5% EC No.: 200-857-2 Classification (67/548/EEC) F+;R12 |
| MINERAL OIL (REFINED) CAS-No.: 64742-52-5 Classification (EC 1272/2008) Not classified. | 1-5% EC No.: 265-155-0 Classification (67/548/EEC) Not classified. |
| NAPHTHA (PETROLEUM) , HYDROTREATED LIGHT CAS-No.: 64742-49-0 Classification (EC 1272/2008) Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411 | 30-60% EC No.: 265-151-9 Classification (67/548/EEC) Xn;R65. Xi;R38. F;R11. N;R51/53. R67. |
| n-OLEOYL SARCOSINE CAS-No.: 110-25-8 Classification (EC 1272/2008) Not classified. | < 1% EC No.: 203-749-3 Classification (67/548/EEC) Xi;R38,R41. N;R50/53. |
| OLEYL HYDROXYETHYL IMIDAZOLINE CAS-No.: 95-38-5 Classification (EC 1272/2008) Not classified. | < 1% EC No.: 202-414-9 Classification (67/548/EEC) Xn;R22. C;R34. N;R50/53. |
| PROPANE CAS-No.: 74-98-6 Classification (EC 1272/2008) Flam. Gas 1 - H220 | 10-30% EC No.: 200-827-9 Classification (67/548/EEC) F+;R12 |

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

4. First aid measures

4.1. Description of first aid measures

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|----------------------------|---|
| General information | Move the exposed person to fresh air at once. Get medical attention if any discomfort continues |
| Inhalation | Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention. |
| Ingestion | DO NOT INDUCE VOMITING! Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Get medical attention if any discomfort continues. |
| Skin contact | Wash the skin immediately with soap and water. Get medical attention if any discomfort continues |
| 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

5. Firefighting measures

| | |
|--|---|
| 5.1 Extinguishing Media | Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist. |
| 5.2 Unusual Fire & Explosion Hazards: | Aerosol cans may explode in a fire |
| 5.3 Special Fire Fighting Procedures: | Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours. |

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

| | |
|--|--|
| 6.3. Methods and material for containment and cleaning up | Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Let evaporate. Keep out of confined spaces because of explosion risk. If leakage cannot be stopped, evacuate area. |
|--|--|

6.4. Reference to other sections

7. Handling and storage

7.1 Precautions for safe handling

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.

7.2 Conditions for safe storage, including any incompatibilities

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C

7.3. Specific end use(s)

8. Exposure controls/personal protection

8.1. Control parameters

| Name | STD | TWA - 8 Hrs | | STEL - 15 Min | |
|---|-----|-------------|------------------------|---------------|------------------------|
| BUTANE | WEL | 600 ppm | 1450 mg/m ³ | 750 ppm | 1810 mg/m ³ |
| ISOBUTANE | WEL | 800 ppm | | 800 ppm | |
| MINERAL OIL (REFINED) | | | 5 mg/m ³ | | 10 mg/m ³ |
| NAPHTHA (PETROLEUM) , HYDROTREATED LIGHT | | | 1200 mg/m ³ | 60 ppm | 216 mg/m ³ |
| WHITE SPIRIT | | | 600 mg/m ³ | | |

Ingredient Comments

WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective Equipment



Engineering measures:

Provide adequate general and local exhaust ventilation

Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Use chemical cartridge protection with appropriate cartridge

Hand protection

Use protective gloves

Eye protection

Use approved safety goggles or face shield

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. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-------------------------------|-----------------|
| Appearance | Aerosol |
| Colour: | Typical |
| Odour: | Characteristic. |
| Flammability Limit - Lower(%) | 0.8 |
| Flammability Limit - Upper(%) | 9.0 |

9.2. Other information

10. Stability and reactivity

10.1. Reactivity

10.2. Chemical stability Stable under normal temperature conditions

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid contact with: Strong oxidising agents. Strong alkalis. Strong mineral acids.

10.5. Incompatible materials

10.6. Hazardous Decomposition Products: Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

11. Toxicological information

11.1. Information on toxicological effects

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|-----------------------|--|
| Inhalation | May cause irritation to the respiratory system. Vapours may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system |
| Ingestion | May cause discomfort if swallowed. May cause stomach pain or vomiting. Gastrointestinal symptoms, including upset stomach. |
| Skin contact | Prolonged or repeated exposure may cause severe irritation. Acts as a defatting agent on skin. May cause cracking of skin, and eczema |
| Eye contact | Irritating to eyes. May cause chemical eye burns |
| Route of entry | Inhalation. Skin and/or eye contact |

12. Ecological information

Ecotoxicity Dangerous for the environment if discharged into watercourses.

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

13. Disposal considerations

13.1. Waste treatment methods Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements

14. Transport information

14.1. UN number

UN No. (ADR/RID/ADN) 1950

UN No. (IMDG) 1950

UN No. (ICAO) 1950

14.2. UN proper shipping name

Proper Shipping Name AEROSOLS

14.3. Transport hazard class(es)

ADR/RID/ADN Class 2

ADR/RID/ADN Class Class 2: Gases

ADR Label No. 2.1

IMDG Class 2.1

ICAO Class/Division 2.1

14.4. Packing group

ADR/RID/ADN Packing group N/A

IMDG Packing group N/A

ICAO Packing group N/A

14.5. Environmental hazards Environmentally Hazardous Substance/Marine Pollutant No.

14.6. Special precautions for user

EMS F-D, S-U

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

15. Regulatory information

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

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|----------------------------------|---|
| UK Regulatory References | The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. The Control of Substances Hazardous to Health Regulations 2002 |
| Statutory Instruments | The Control of Substances Hazardous to Health Regulations 2002. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 |
| Approved Code Of Practice | Classification and Labelling of Substances and Preparations Dangerous for Supply |
| Guidance Notes | Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108). |

16. Other information

| | |
|----------------------------------|---|
| Risk Phrases In Full | R34 Causes burns. R12 Extremely flammable. R10 Flammable. R22 Harmful if swallowed. R65 Harmful: may cause lung damage if swallowed. R11 Highly flammable R36 Irritating to eyes. R38 Irritating to skin. R53 May cause long-term adverse effects in the aquatic environment. 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. R67 Vapours may cause drowsiness and dizziness. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| Hazard Statements In Full | EUH066 Repeated exposure may cause skin dryness or cracking. H220 Extremely flammable gas. H222 Extremely flammable aerosol. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. |

