

SAFETY DATA SHEET
R233 ALUMINIUM ANTI SEIZE



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

PRODUCT NAME **R233 ALUMINIUM ANTI SEIZE**

SUPPLIER Tygris
Unit 31, Kyle Road Industrial Estate
Irvine
Scotland
KA12 8LE
01294 311066
technical@tygrisindustrial.com

2 HAZARDS IDENTIFICATION

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

CLASSIFICATION Xi;R38. F+;R12. N;R51/53. R67.

3 COMPOSITION/INFORMATION ON INGREDIENTS

| Name | EC No. | CAS-No. | Content | Classification |
|---|-----------|------------|---------|---------------------------------------|
| BUTANE | 203-448-7 | 106-97-8 | 10-30% | F+;R12 |
| ISOBUTANE | 200-857-2 | 75-28-5 | 5-10% | F+;R12 |
| MINERAL OIL (REFINED) | 265-155-0 | 64742-52-5 | < 1% | - |
| NAPHTHA (PETROLEUM) , HYDROTREATED LIGHT | 265-151-9 | 64742-49-0 | 30-60% | Xn;R65. Xi;R38. F;R11. N;R51/53. R67. |
| PROPAN-2-OL | 200-661-7 | 67-63-0 | 1-5% | F;R11 Xi;R36 R67 |
| PROPANE | 200-827-9 | 74-98-6 | 10-30% | F+;R12 |
| WHITE SPIRIT | 265-185-4 | 64742-82-1 | 1-5% | Xn;R65. N;R51/53. R10,R66. |

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

4 FIRST-AID MEASURES

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.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

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.

UNUSUAL FIRE & EXPLOSION HAZARDS

Aerosol cans may explode in a fire.

R233 ALUMINIUM ANTI SEIZE

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS

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.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

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.

STORAGE PRECAUTIONS

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

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

| Name | Std | TWA - 8 hrs | | STEL - 15 min | | Notes |
|--|-----|--------------|--------------|---------------|--------------|-------|
| | | | | | | |
| BUTANE | WEL | 600 ppm | 1450 mg/m3 | 750 ppm | 1810 mg/m3 | |
| ISOBUTANE | WEL | 800 ppm | | 800 ppm | | |
| MINERAL OIL (REFINED) | | | 5 mg/m3 | | 10 mg/m3 | |
| NAPHTHA (PETROLEUM) , HYDROTREATED LIGHT | | | 1200 mg/m3 | | | |
| PROPAN-2-OL | WEL | 400 ppm | 999 mg/m3 | 500 ppm | 1250 mg/m3 | |
| PROPANE | | Asphyxiating | Asphyxiating | Asphyxiating | Asphyxiating | |
| WHITE SPIRIT | | | 600 mg/m3 | | | |

WEL = Workplace Exposure Limit.

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

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 Workplace 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 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

| | |
|------------|----------------|
| APPEARANCE | Aerosol |
| COLOUR | Silver |
| ODOUR | Characteristic |

R233 ALUMINIUM ANTI SEIZE

SOLUBILITY Insoluble in water
 FLAMMABILITY LIMIT - LOWER(%) 0.8 FLAMMABILITY LIMIT - UPPER(%) 9.0

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID

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

HAZARDOUS DECOMPOSITION PRODUCTS

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

11 TOXICOLOGICAL INFORMATION

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. Irritating to 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. May cause allergic contact eczema. May cause sensitisation by skin contact. Irritating to skin.

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.

13 DISPOSAL CONSIDERATIONS

DISPOSAL 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



| | | | |
|----------------------|----------|------------------|----------------|
| UK ROAD CLASS | 2 | | |
| PROPER SHIPPING NAME | AEROSOLS | | |
| UN NO. ROAD | 1950 | UK ROAD PACK GR. | N/A |
| ADR CLASS NO. | 2 | ADR CLASS | Class 2: Gases |
| ADR PACK GROUP | N/A | ADR LABEL NO. | 2.1 |
| CEFIC TEC(R) NO. | 20G5F | RID CLASS NO. | 2 |
| RID PACK GROUP | N/A | UN NO. SEA | 1950 |
| IMDG CLASS | 2.1 | IMDG PACK GR. | N/A |
| EMS | F-D, S-U | MFAG | See Guide |
| MARINE POLLUTANT | No. | UN NO. AIR | 1950 |
| AIR CLASS | 2.1 | AIR PACK GR. | N/A |

15 REGULATORY INFORMATION

R233 ALUMINIUM ANTI SEIZE

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. |
| S2 | Keep out of the reach of children |
| S51 | Use only in well-ventilated areas. |

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

REVISION DATE 08/09/2006

REV. NO./REPL. SDS GENERATED 4

RISK PHRASES IN FULL

| | |
|--------|---|
| R10 | Flammable. |
| R11 | Highly flammable. |
| R12 | Extremely flammable. |
| R36 | Irritating to eyes. |
| R38 | Irritating to skin. |
| 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. |
| R67 | Vapours may cause drowsiness and dizziness. |

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.