

R204 BATTERY TERMINAL PROTECTOR

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

1.1 Product identifier

Trade name: BATTERY TERMINAL PROTECTOR

Article number: R204

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

Unit 31

Kyle Road Industrial Estate

Irvine Ayshire KA12 8LE

Tel +44 (0) 1294 311 066 Fax +44 (0) 1294 277 115

Email technical@tygrisindustrial.com

Further information obtainable from:

Technical Department

1.4 Emergency telephone

number:

Tel +44 (0) 1294 311 066



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2. Hazards identification

2.1. Classification of the substance or mixture

Classification (EC

Physical and Chemical Hazards

Flam. Aerosol 1 - H222

1272/2008)

Human health

EUH066

Environment

Not classified.

Classification (1999/45/EEC) F+;R12. R66.

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

2.2. Label elements

Label In Accordance With (EC) No. 1272/2008



Signal Word Danger

Hazard Statements H222 Extremely flammable aerosol.

Precautionary Statements P102 Keep out of reach of children.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing vapour/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves.

P501 Dispose of contents/container in accordance with local regulations.

Supplementary Precautionary Statements

P211 Do not spray on an open flame or other ignition source. P251 Pressurized container: Do not pierce or burn, even after use. P302+352 IF ON SKIN: Wash with plenty of soap and water.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P333+313 If skin irritation or rash occurs: Get medical advice/attention.

P337+313 If eye irritation persists: Get medical advice/attention.

P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50

°C/122°F.

Supplemental label information

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards



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3. Composition/information on ingredients

3.2. Mixtures

1-METHOXY-2-PROPANOL	1-5%		
Index No.	REACH Registration No.		
CAS-No.: 107-98-2	EC No.: 203-539-1		
0.10.10.10.00 =			
Classification (EC 1272/2008) Flam. Liq. 3 - H226	Classification (67/548/EEC) R10		
STOT SE 3 - H336	R67		
BUTANE	5-10%		
Index No.	REACH Registration No.		
CAS-No.: 106-97-8	EC No.: 203-448-7		
Classification (EC 1272/2008) Flam. Gas 1 - H220	Classification (67/548/EEC)		
	F+;R12		
ISOBUTANE	1-5%		
Index No.	REACH Registration No.		
CAS-No.: 75-28-5	EC No.: 200-857-2		
Classification (EC 1272/2008) Flam. Gas 1 - H220	Classification (67/548/EEC) F+;R12		
ODOURLESS KEROSENE	30-60%		
Index No.	REACH Registration No.		
CAS-No.: 64742-47-8	EC No.: 926-141-6		
Classification (EC 1272/2008)	Classification (67/548/EEC)		
EUH066	Xn;R65.		
Asp. Tox. 1 - H304	R66.		
PROPANE	10-30%		
Index No.	REACH Registration No.		
CAS-No.: 74-98-6	EC No.: 200-827-9		
Classification (EC 1272/2008) Flam. Gas 1 - H220	Classification (67/548/EEC) F+;R12		
SODIUM NITRITE	< 1%		
Index No.	REACH Registration No.		
CAS-No.: 7632-00-0	EC No.: 231-555-9		
Classification (EC 1272/2008)	Classification (67/548/EEC)		
Ox. Sol. 3 - H272	O;R8		
Acute Tox. 3 - H301 Aquatic Acute 1 - H400	T;R25 N;R50		
	,		

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



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4. First aid measures

4.1. Description of 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.

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

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

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion

Hazards

Aerosol cans may explode in a fire.

5.3. Advice for firefighters

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



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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	
1-METHOXY-2-PROPANOL	WEL	100 ppm (Sk)	375 mg/m3 (Sk)	150 ppm (Sk)	560 mg/m3 (Sk)
BUTANE	WEL	600 ppm	1450 mg/m3	750 ppm	1810 mg/m3
ISOBUTANE	WEL	800 ppm		800 ppm	
ODOURLESS KEROSENE		165 ppm	1200 mg/m3		
PROPANE		Asphyxiating	Asphyxiating	Asphyxiating	Asphyxiating

WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective equipment





Engineering measures Provide adequate general and local exhaust ventilation.

general level exceeds the recommended occupational exposure limit. Use chemical

cartridge protection with appropriate cartridge.

Hand protection Use protective gloves.

Eye protection Wear approved chemical safety goggles where eye exposure is reasonably

probable.

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.



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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Aerosol
Colour Orange.

Odour Characteristic.

Solubility Insoluble in water

Flammability Limit -

Lower(%)

8.0

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

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.

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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.



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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

Transport Labels



14.4. Packing group

Packing group Not applicable.

14.5. Environmental hazards

Environmentally Hazardous No **Substance/Marine Pollutant**

14.6. Special precautions for user

EMS F-D, S-U

Tunnel Restriction Code

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

Uk Regulatory References The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002.

The Control of Substances Hazardous to Health Regulations 2002.

Statutory Instruments Control of Substances Hazardous to Health.

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009

(S.I 2009 No. 716).

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).



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15.2. Chemical safety assessment

16. Other information

Risk Phrases In Full R8 Contact with combustible material may cause fire.

R12 Extremely flammable.

R10 Flammable.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R25 Toxic if swallowed.

R67 Vapours may cause drowsiness and dizziness.

R50 Very toxic to aquatic organisms.

Hazard Statements In Full H222 Extremely flammable aerosol.

H220 Extremely flammable gas. H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H272 May intensify fire; oxidiser.

EUH066 Repeated exposure may cause skin dryness or cracking.

H301 Toxic if swallowed. H400 Very toxic to aquatic life.

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.