

Permaflex B Gun Grade

HARDENER

HEALTH & SAFETY
DATASHEET ISSUE 1.1
12 MAY 2008

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY

PRODUCT NAME: Permaflex B Gungrade Hardener

MANUFACTURER: Permaban Limited
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Ivybridge
Devon
PL21 9GL

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EMERGENCY: 999 or 112

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS: DIPHENYLMETHANEDIISOCYANATE, ISOMERS & HOMOLOGUES 90-100%
CAS: 009016-87-9
Xn;R20 Xi;R36 Xi;R37 Xi;R38 Xn;R42 Xi;R43

3. HAZARDS IDENTIFICATION

Harmful by inhalation. Irritating to eyes, respiratory system and skin.
May cause sensitisation by inhalation and skin contact.

4. FIRST AID MEASURES

GENERAL: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

INHALATION: Move to fresh air. Consult a doctor after significant exposure. Oxygen or artificial respiration if needed.

INGESTION: If swallowed, seek medical advice immediately and show this container or label. Drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

SKIN CONTACT: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, seek medical advice.

EYE CONTACT: Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 15 minutes while holding the eyelids apart. Seek medical advice.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:
Recommended: Dry chemical, Dry powder, Dry sand, alcohol-resistant foam or carbon dioxide (CO₂).
Do NOT use: Water Jet.

RECOMMENDATIONS:
Fire may cause highly toxic or corrosive fumes to evolve.
In the event of fire, wear self-contained breathing apparatus.

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6. ACCIDENTAL RELEASE MEASURES

Use personal protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation. Contaminated surfaces will be extremely slippery. Avoid subsoil penetration. Do not allow material to contaminate ground water system. Prevent product from entering drains. Prevent further leakage or spillage. Do not contaminate surface water. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Flush with plenty of water.

7. HANDLING & STORAGE

HANDLING:

Avoid contact with skin and eyes. Do not breathe vapours or spray mist. Do not smoke. Handle and open container with care. Keep away from open flames, hot surfaces and sources of ignition. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Take precautionary measures against static discharges.

STORAGE:

Keep at temperatures between 15 and 25 °C. Keep container tightly closed in a dry and well-ventilated place. Do not store near acids.

PACKING MATERIAL:

Stainless steel, Mild steel.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

EXPOSURE CONTROLS:

Ensure adequate ventilation, especially in confined areas.

RESPIRATORY PROTECTION:

In case of insufficient ventilation wear suitable respiratory equipment.

HAND PROTECTION:

Rubber or plastic gloves

EYE PROTECTION:

Face-shield, safety glasses with side-shields OR tightly fitting safety goggles

SKIN PROTECTION:

Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Rubber or plastic apron.

9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE: Brown liquid

RELATIVE DENSITY: 1.23

ODOUR: Musty

10. STABILITY & REACTIVITY

Stable under normal conditions.

Avoid excessive heat, flames and sparks. Exothermic reaction with strong acids.

Avoid acids & oxidising agents. Incompatible with acids and bases. Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Fire will produce carbon monoxide, carbon oxides, isocyanides, ammonia hydrogen cyanide (hydrocyanic acid) nitrogen oxides (NOx).

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11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Harmful by inhalation, in contact with skin and if swallowed. Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. Chronic inhalation causes tiredness, headache and rhinitis cough.

PRIMARY IRRITATION:

Irritating to respiratory system and skin. The product causes irritation of eyes, skin and mucous membranes. Causes burns.

SENSITISATION:

May cause sensitisation by inhalation and skin contact. Causes sensitisation. Repeated or prolonged contact causes sensitisation, asthma and eczemas.

12. ECOLOGICAL INFORMATION

Acute daphnia toxicity: EC50=1000mg/l 24H
Not inherently biodegradable.

13. DISPOSAL CONSIDERATIONS

Can be incinerated, when in compliance with the Environment Protection Act 1990 (Process Guidance Note IPR5/1)

DISPOSE OF IN ACCORDANCE WITH LOCAL AND NATIONAL REGULATIONS

Further information on disposal methods and contractors is available from the National Association of Waste Disposal Contractors tel: 0207 824 8882/fax: 0207 824 8753.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

The product is classified and labelled for supply in accordance with the CHIP Regulations 2002 (SI No. 2002/1689) as follows:



XN HARMFUL

R20 HARMFUL BY INHALATION, IN CONTACT WITH SKIN
R36/37/38 IRRITATING TO EYES, SKIN AND RESPIRATORY SYSTEM
R42/43 MAY CAUSE SENSITISATION BY INHALATION AND SKIN CONTACT

S22/23 DO NOT BREATHE DUST/FUMES/GAS/VAPOUR/SPRAY. USE ONLY IN WELL VENTILATED AREAS
S24/37 AVOID CONTACT WITH SKIN. WEAR SUITABLE PROTECTIVE CLOTHING/GLOVES
S45 IN CASE OF ACCIDENT, OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW LABEL WHERE POSSIBLE).

S63 IN CASE OF ACCIDENT BY INHALATION: REMOVE CASUALTY TO FRESH AIR AND KEEP AT REST.

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16. OTHER INFORMATION

R20	HARMFUL BY INHALATION
R36	IRRITATING TO EYES
R37	IRRITATING TO RESPIRATORY SYSTEM
R38	IRRITATING TO SKIN
R42	MAY CAUSE SENSITISATION BY INHALATION
R43	MAY CAUSE SENSITISATION BY SKIN CONTACT

IT SHOULD BE NOTED THAT THIS PRODUCT IS INTENDED FOR USE WITH A RESIN DESIGNATED BY ROBNOR RESINS. THE CORRESPONDING SAFETY DATA FOR THAT RESIN MUST BE STUDIED ALONG WITH THE DATA ON THIS SHEET PRIOR TO USE. USING RESINS WHICH HAVE NOT BEEN SUPPLIED AND/OR RECOMMENDED BY ROBNOR RESINS FOR USE WITH THIS PRODUCT IS POTENTIALLY HAZARDOUS AND SHOULD NOT BE CONTEMPLATED.

Safety instructions and operating procedures for specified tasks must be written, communicated and enforced.

These will include:

- **Provision of hazard information and training of personnel based on operating procedures and safety data sheets, together with instructions on how to avoid exposure.
- **Assessment of the risk of exposure and contact after all reasonable practical steps have been taken to avoid exposure, selection of suitable personal protective equipment and implementation of an appropriate programme.
- **Provision of facilities for washing, storage of clothing and skin care and promotion of their use.
- **Close supervision to identify failure in the performance of process controls or in following operating instructions, the occurrence of irritation and inadequate use of personal protective equipment. Assessment should also be made of the need for industrial personal hygiene and medical surveillance, and provision of appropriate services.

Occupational dermatitis contracted during exposure to resin systems is a reportable disease under Schedule 3 of the RIDDOR regulations (UK). Form F2508A available from the HSE should be used for such notification.

It is a statutory requirement that Medical Supervision is carried out when using products which can cause an identifiable disease, there is reasonable likelihood that the disease may occur under the particular conditions of work and there are valid techniques for detecting indications of the disease.

The Safety Data Sheet was compiled using information gathered concerning its individual components. No synergistic effects are known to us but we cannot exclude the existence of such effects.

If this product is to be machined in any way then the toxicological information in Section 11 and the information concerning respiratory protection in Section 8 should be noted.

THIS SAFETY DATA SHEET FOLLOWS THE REQUIREMENTS OF DIRECTIVE 93/112/EEC. THE INFORMATION CONTAINED HEREIN IS CORRECT TO THE BEST OF OUR KNOWLEDGE AT THE DATE OF PUBLICATION AND NO LIABILITY CAN BE ACCEPTED FOR ANY LOSS, INJURY OR DAMAGE RESULTING FROM ITS USE. IT IS INTENDED AS A GUIDE FOR THE SAFE HANDLING, STORAGE AND USE UNDER NORMAL CONDITIONS, BUT IT DOES NOT NECESSARILY REFER TO THE PARTICULAR REQUIREMENT OF THE CUSTOMER WHEN FURTHER ADVICE SHOULD BE OBTAINED

