

SAFETY DATA SHEET

1 Identification of the substance or preparation and of the company/undertaking

Product Name: **MetalGrade Express Base**
 Datasheet Number: 659235-B 2. 0. 0
 Use of the substance/preparation: Polymer repair system
 Product Part Number: 659235
 Head Office:: Wilhelmsen Ships Service
 address: Stranveien 20 PO Box 33 N-1324 Lysaker Norway
 Name of Supplier: Wilhelmsen Ships Service AS
 Address of Supplier: Willem Barentszstraat 50
 3165AB
 Rotterdam
 The Neherlands
 Telephone: +31 10 4877 777
 Fax: +31 10 4877 888
 Responsible Person: Patrick Rijsdijk, Product HSE Manager, Tel.: +31 6 349 440 35
 Email: Patrick.Rijsdijk@Wilhelmsen.com
 Telephone: +47 67 584550
 Emergency Telephone: ****ONLY TO BE USED IN CASE OF AN INCIDENT****
 NCEC: +44 1865 407333, CHEMTREC (800) 424 9300
 American Chemistry Council +1 703 527 3887,
 Greece +30 210 7793777

2 Hazards identification

- Odour: Characteristic odour
- Appearance: Metallic, grey, paste, insoluble in water
- Contact with eyes: Causes redness and irritation
- Contact with skin: May cause sensitisation by skin contact (R43), In cases of severe exposure, irritation may develop
- Inhalation: Vapours or aerosols may cause irritation of eyes, nose and respiratory tract
- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment (R51/53)



Irritant



Dangerous for the Environment

3 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases*	Symbols
Bisphenol A Epoxy Resin	<45	25068-38-6	500-033-5	R36/38, 43, 51/53	Xi, N
Non-classified ingredients	>55	-	-	-	-

*See Section 16

4 First aid measures

4 First aid measures (....)

Contact with skin

- Wash affected area with plenty of soap and water
- Contaminated clothing should be laundered before reuse

Contact with eyes

- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Irrigate eyes thoroughly whilst lifting eyelids
- Seek medical attention if irritation persists

Ingestion

- Do not induce vomiting
- Give water or milk to drink
- Seek medical attention if ill effects occur

Inhalation

- Remove patient to fresh air
- When in doubt or symptoms persist, seek medical attention

General

- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)
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5 Fire-fighting measures

- Decomposition products may include nitrogen oxides
 - Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
 - Smoke from fires is irritating. Take precautions to protect personnel from exposure
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6 Accidental release measures

Personal Precautions

- Wear protective clothing as per section 8

Environmental Precautions

- Do not allow to enter public sewers and watercourses

Clean Up Actions

- Absorb spillage in suitable inert material
 - Ventilate the area and wash spill site after material pick-up is complete
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7 Handling and storage

Handling

- When using do not eat, drink or smoke (S20/21)
- Wash hands thoroughly after using this substance
- Ensure adequate ventilation

Storage

- Keep only in the original container in a cool, well ventilated place away from frost (S3/9/14/49)
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8 Exposure controls and personal protection

Exposure Limits

- There are no recommended or established controls for this product

Exposure controls

- No special precautions are required for this product
-

8 Exposure controls and personal protection (....)

Occupational exposure controls

- Wear plastic or rubber gloves
- Wear goggles giving complete eye protection



Goggles



Gloves



No Smoking

9 Physical and chemical properties

- Odour: Characteristic odour
- Appearance: Metallic, grey, paste, insoluble in water
- Slightly alkaline
- Boiling point # °C to 250 °C at 760 mm /Hg
- Vapour pressure <0.01 Pa
- Freezing point # °C to -15 °C at 760 mm/Hg
- Insoluble in water
- Specific gravity 1.8 g/cm³
- Partition coefficient : n-Octanol/water >3
- Viscosity - not applicable, Thixotropic paste

10 Stability and reactivity

- This article is considered stable under normal conditions, No hazardous reactions known if used for its intended purpose
- Avoid overheating
- See Section 5

11 Toxicological information

Toxicological information

- LD50 (oral,rat) 2000 mg/kg
- May cause sensitisation by skin contact (R43)
- Irritating to eyes, respiratory system and skin (R36/37/38)

Inhalation

- May cause irritation

Contact with skin

- May cause sensitisation by skin contact (R43)
- In cases of severe exposure, irritation may develop

Contact with eyes

- Causes redness and irritation

Ingestion

- Not regarded as a potential route of exposure.
- The ingestion of significant quantities may cause gastro-intestinal disturbances

Carcinogenicity

- No evidence of carcinogenic effects

12 Ecological information

12 Ecological information (....)

Ecotoxicity

- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment (R51/53)

Mobility

- Sinks in water

Persistence and Biodegradability

- Not readily biodegradable

Bioaccumulation Potential

- No information available

Other Adverse Effects

- No environmental problems are expected when the product is used / handled correctly. In its intended use, the product will not be released into the environment.

13 Disposal considerations

Disposal considerations

- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- Disposal should be in accordance with local, state or national legislation

14 Transport information



Dangerous Substance



Marine Pollutant

Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S (Bisphenol A Epoxy Resin mixture)

Emergency Action Code

UN

Road/Rail (ADR/RID)

Proper Shipping Name:	Environmentally hazardous substance, liquid, N.O.S (Bisphenol A Epoxy Resin mixture)		
ADR UN No.:	3082	ADR Hazard Class:	9
ADR Packing Group:	III	ADR subrisk:	N/A
ADR-RID Labels:	9	ADR Flashpoint:	N/A

Sea (IMDG)

Proper Shipping Name:	Environmentally hazardous substance, liquid, N.O.S (Bisphenol A Epoxy Resin mixture)		
IMDG UN No.:	3082	IMDG Hazard Class.:	9
IMDG Pack Group.:	III	IMDG EmS:	F-A, S-F
IMDG subrisk:	N/A	IMDG Labels:	9 + Marine Pollutant
IMDG Flashpoint:	N/A		

14 Transport information (....)

Air (ICAO/IATA)

Proper Shipping Name:	Environmentally hazardous substance, liquid, N.O.S (Bisphenol A Epoxy Resin mixture)		
ICAO Un No.:	3082	ICAO Hazard Class.:	9
ICAO Packing Group.:	III	ICAO subrisk:	N/A
ICAO Labels:	9 + Marine Pollutant	ICAO Flashpoint:	N/A

DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	Environmentally hazardous substance, liquid, N.O.S (Bisphenol A Epoxy Resin mixture)		
Hazardous Material:	Bisphenol A Epoxy Resin	Hazard Class:	9
Identification Number:	UN3082	Product RQ (lbs):	N/A
DOT subrisk:	N/A	DOT Labels:	9
DOT Flashpoint:	N/A		

15 Regulatory information



Irritant



Dangerous for the Environment

Risk Phrases

- Irritating to eyes and skin (R36/38)
- May cause sensitisation by skin contact (R43)
- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment (R51/53)

Safety Phrases

- Wear suitable gloves and eye/face protection (S37/39)
- After contact with skin, wash immediately with plenty of soap and water (S28)
- Avoid release to the environment. Refer to special instructions/Safety data sheets (S61)
- Keep out of reach of children (S2)

16 Other information

Text of R and S phrase codes used in this safety data sheet:- R36/38: Irritating to eyes and skin; R43: May cause sensitisation by skin contact; R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

This Safety Data Sheet is provided in compliance with The Safety Data Sheets Directive (2001/58EC)

