

SAFETY DATA SHEET**SECTION 1 Identification of the substance or preparation and of the company/undertaking**

1.1 Product and Company information

- Datasheet Number: 659268-A
- Product Name: Ceramigrade Rebuild Activator
- Product Part Number: 659276

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

- Polymer repair system

1.3 Details of the supplier of the safety data sheet

Head Office:

Wilhelmsen Ships Service AS
Strandveien 20, N1324 Lysaker,
Norway Tel: (47) 6349 440 35

Supplier:

Wilhelmsen Ships Service AS
Willem Barentszstraat 50
3165AB Rotterdam
Telephone: +31 4877 777
Fax: +31 4877 888
The Netherlands

For quotations contact your local Customer Services

- Responsible person

Product HSE Manager, Tel.: +31 10 4877775

Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com

1.4 Emergency telephone number

-ONLY TO BE USED IN CASE OF AN INCIDENTNCEC:+

44 1865 407333, CHEMTREC (800) 424 9300

American Chemistry Council +1 703 527 3887,

Greece +30 210 7793777Australia: +61 3 9630 0998

Giftinformasjonsentralen in Norway Tel.: +47 22591300

Wilhelmsen Ships Service Melbourne AUSTRALIA

Emergency 24hrs: +61 3 9630 0998

FOR QUOTATIONS PLEASE CONTACT YOUR LOCAL CUSTOMER SERVICES

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

- Classification according to Directive 67/548/EEC or Directive 1999/45EC

2.2 Label elements



Irritant



Dangerous for the Environment

- Risk Phrases

Irritating to eyes and skin (R36/38)

SECTION 2 Hazards identification (....)

May cause sensitisation by skin contact (R43)

- Safety Phrases
 - Avoid contact with skin (S24)
 - Wear suitable gloves (S37)
 - If swallowed seek medical advice immediately and show this container or label (S46)

2.3 Other hazards

- Ingestion: In cases of severe exposure, gastro-intestinal disturbances may develop
- Appearance: paste, light, blue
- Odour: Odourless

SECTION 3 Composition/information on ingredients

3.1 Mixtures

- Silica, amorphous, fumed
 - Concentration: <5%
 - CAS Number: 7631-86-9
 - EC Number: 231-545-4
 - Symbols: Xi
 - R/H Phrases: R36
 - Categories: Not applicable
- 2,2'-iminodiethylamine; diethylenetriamine
 - Concentration: <5
 - CAS Number: 111-40-0
 - EC Number: 203-865-4
 - Symbols: GHS05,GHS07, C
 - R/H Phrases: H312,H302,H314,H317, R21/22,R34,R43
 - Categories: Acute Tox. 4 * Acute Tox. 4 * Skin Corr. 1B Skin Sens. 1
- Non-classified ingredients
 - Concentration: 90%
 - CAS Number: Not applicable
 - EC Number: Not applicable
 - Symbols: -
 - R/H Phrases: -
 - Categories: Not applicable

SECTION 4 First aid measures

4.1 Description of first aid measures

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).
- If eye irritation persists: Get medical advice/attention (P337+P313).
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- IF ON SKIN: Wash with plenty of soap and water (P302+P352).
- If skin irritation occurs: Get medical advice/attention (P332+P313).
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- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P341).
- When in doubt or symptoms persist, seek medical attention
-
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301+P330+P331).
- Give plenty of water to drink
- When in doubt or symptoms persist, seek medical attention

4.2 Most important symptoms and effects, both acute and delayed

- Possible redness and irritation of affected areas

SECTION 4 First aid measures (....)

- In cases of severe exposure, gastro-intestinal disturbances may develop

4.3 Indication of any immediate medical attention and special treatment needed

- No information available

SECTION 5 Fire-fighting measures

5.1 Extinguishing media

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

5.2 Special hazards arising from the substance or mixture

- In case of fire, do not breathe fumes
- Carbon dioxide may be formed
- Carbon oxides may be formed
- Nitrogen oxides may be formed

5.3 Advice for firefighters

- Smoke from fires is irritating. Take precautions to protect personnel from exposure
- Wear Positive-Pressure Breathing Apparatus

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8

6.2 Environmental Precautions

- Do not allow to enter public sewers and watercourses

6.3 Methods and material for containment and cleaning up

- Absorb spillage in inert material and shovel up
- Ventilate the area and wash spill site after material pick-up is complete

6.4 Reference to other sections

- None

SECTION 7 Handling and storage

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

- Keep only in the original container in a cool, well ventilated place away from frost (S3/9/14/49)

7.3 Specific end use(s)

- Not applicable

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- Diethylenetriamine
TLV (TWA) 4.2 mg/m³ ()

8.2 Exposure controls

- No special precautions are required for this product

8.3 Occupational exposure controls

SECTION 8 Exposure controls/personal protection (....)



Gloves



Goggles



No Smoking

- Wear plastic or rubber gloves
- Penetration time of glove material:
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Wear goggles giving complete eye protection

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Odourless
- Appearance: paste, light, blue
- insoluble in water
- Vapour pressure (0,03 kPa) 0.2 mm /Hg

9.2 Other information

- No information available

SECTION 10 Stability and reactivity

10.1 Reactivity

- This article is considered stable under normal conditions

10.2 Chemical stability

- Considered stable under normal conditions

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

- Avoid overheating

10.5 Incompatible materials

- Incompatible with acid
- Incompatible with oxidizing substances

10.6 Hazardous Decomposition Products

- Decomposition products may include carbon dioxide
- Decomposition products may include carbon oxides
- Decomposition products may include nitrogen oxides

SECTION 11 Toxicological information

11.1 Information on toxicological effects

- LD50 (oral, rat) 2000 mg/kg
- Prolonged skin or eye contact may cause chemical burns

11.2 Contact with eyes

- Causes irritation

11.3 Contact with skin

- Causes irritation

11.4 Ingestion

- In cases of severe exposure, gastro-intestinal disturbances may develop

SECTION 11 Toxicological information (....)

11.5 Inhalation

- In cases of severe exposure, coughing may develop
- In cases of severe exposure, breathing difficulty may develop

SECTION 12 Ecological information

12.1 Toxicity

- LC50 (fish) (Diethlenetriamine)(Poecilia reticulata) 1014 mg/l (96 hr)

12.2 Persistence and degradability

- Not readily biodegradable

12.3 Bioaccumulation Potential

- No information available

12.4 Mobility in soil

- Insoluble in water

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 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.

SECTION 13 Disposal considerations

13.1 Waste treatment methods

- 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

13.2 Classification

- Not applicable

SECTION 14 Transport information

Not classified as hazardous for transport

14.1 UN Number

- Not applicable

14.2 UN Proper Shipping Name

- Not applicable

14.3 Transport hazard class(es)

- Not applicable

14.4 Packing group

- Not applicable

14.5 Environmental hazards

- Not Classified

14.6 Special precautions for user

- Not Classified

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not Classified

SECTION 15 Regulatory information

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

- Classification according to Directive 67/548/EEC or Directive 1999/45EC
- Refer to current The Dangerous Substances Directive (67/548/EEC)
- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010

15.2 Chemical Safety Assessment

- None

SECTION 16 Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H302: Harmful if swallowed. H312: Harmful in contact with skin. H314: Causes severe skin burns and eye damage. H317: May cause an allergic skin reaction. R21/22: Harmful in contact with skin and if swallowed. R34: Causes burns. R36: Irritating to eyes. R43: May cause sensitisation by skin contact. The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

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

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 most up-to-date version of this MSDS can be found on www.wilhelmsen.com/shipsservice

OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES

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