

Printing date 08.06.2011

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Version number 1

Revision: 08.06.2011

| Relevant identified uses of the substance or mixture and uses advised against Application of the substance / the preparation Degreasing agent Details of the supplier of the safety data sheet Manufacturer/Supplier: Wieland Edelmetaile GmbH Schwanninger Str. 13 73179 Pforzheim Telefon + 49 (07231)-37050, Telefax + 49 (07231)-357959 Further information obtainable from: Wieland Edelmetaile GmbH www.wieland-edelmetaile de msds@wieland-edelmetaile de msds@wieland-edelmetaile de Member of EPECS Network | Trade name: Elektrolytische Entfettung spezial, gebrauchsfertig Electrolytic degreaser special, cyanidic (ready to use) Article number: 3040400302 Relevant identified uses of the substance or mixture and uses advise Application of the substance / the preparation Degreasing agent Details of the supplier of the safety data sheet Manufacturer/Supplier: Wieland Edelmetalle GmbH Schwenninger Str. 13 75179 Pforzheim Telefon + 49 (07231)-37050, Telefax + 49 (07231)-357959 Further information obtainable from: Wieland Edelmetalle GmbH www.wieland-edelmetalle.de msds@wieland-edelmetalle.de Emergency telephone number: GIZ-Nord, Göttingen, Germany +49 551 19240 Member of EPECS Network Hazards identification Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 | |
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Version number 1

Trade name: Elektrolytische Entfettung spezial, gebrauchsfertig Electrolytic degreaser special, cyanidic (ready to use)

(Contd. of page 1) · Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials. · Code letter and hazard designation of product: C Corrosive · Hazard-determining components of labelling: potassium cyanide sodium hydroxide · Risk phrases: 20/21/22 Harmful by inhalation, in contact with skin and if swallowed. 34 Causes burns. 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · Safety phrases: Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer). 23 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 26 36/37/39 Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where 45 possible). 60 This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets. 61 · Other hazards · Results of PBT and vPvB assessment • **PBT:** Not applicable. · vPvB: Not applicable. **3** Composition/information on ingredients · Description: Mixture of substances listed below with nonhazardous additions. · Dangerous components: CAS: 1310-73-2 sodium hydroxide 1-5% EINECS: 215-185-5 🔁 C R35 📀 Skin Corr. 1A, H314 potassium cyanide CAS: 151-50-8 ≤ 1% EINECS: 205-792-3 😡 T+ R26/27/28; 🌄 N R50/53 R32 left Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; 🚯 Aquatic Acute 1, H400; Aquatic Chronic 1, H410

• Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

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- · After swallowing:
- Rinse out mouth and then drink plenty of water.
- Do not induce vomiting; call for medical help immediately.
- · Information for doctor:
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. • Special hazards arising from the substance or mixture
- In case of fire, the following can be released:
- Hydrogen cyanide (HCN)
- Advice for firefighters
- · Protective equipment: Mount respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- \cdot Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Do not store together with acids.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Storage class: 8B
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

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· Control parameters · Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. • Additional information: The lists valid during the making were used as basis. · Exposure controls · Personal protective equipment: · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. · Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation. · Protection of hands: Protective gloves · Material of gloves Chloroprene rubber, CR Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Camparen · Penetration time of glove material Value for the permeation: Level ≥ 6 The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. · Not suitable are gloves made of the following materials: Leather gloves Strong material gloves • Eve protection: Tightly sealed goggles · Body protection: Protective work clothing **9** Physical and chemical properties · Information on basic physical and chemical properties

| · General Information | | |
|------------------------------|------------------|--------------------|
| · Appearance: | | |
| Form: | Fluid | |
| Colour: | Colourless | |
| · Odour: | Product specific | |
| · Odour threshold: | Not determined. | |
| · pH-value at 20°C: | >13 | |
| · Change in condition | | |
| Melting point/Melting range: | Undetermined. | |
| | | (Contd. on page 5) |

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| | | (Contd. of page 4) |
|--|---|--------------------|
| Boiling point/Boiling range: | 105°C | |
| · Flash point: | Not applicable. | |
| · Ignition temperature: | | |
| Decomposition temperature: | Not determined. | |
| · Self-igniting: | Product is not selfigniting. | |
| · Danger of explosion: | Product does not present an explosion hazard. | |
| · Explosion limits: | | |
| Lower: | Not determined. | |
| Upper: | Not determined. | |
| · Oxidizing properties | None | |
| · Vapour pressure: | Not determined. | |
| · Density at 20°C: | 1.05 g/cm ³ | |
| · Relative density | Not determined. | |
| · Vapour density | Not determined. | |
| • Evaporation rate | Not determined. | |
| · Solubility in / Miscibility with | | |
| water: | Fully miscible. | |
| · Segregation coefficient (n-octanol/water): | Not determined. | |
| · Viscosity: | | |
| Dynamic: | Not determined. | |
| Kinematic: | Not determined. | |
| · Solvent content: | | |
| Organic solvents: | 0.0 % | |
| · Other information | No further relevant information available. | |

10 Stability and reactivity

· Reactivity

· Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions Contact with acids releases toxic gases.
- \cdot Conditions to avoid No further relevant information available.
- · Hazardous decomposition products: Hydrogen cyanide (prussic acid)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

 \cdot LD/LC50 values relevant for classification:

1310-73-2 sodium hydroxide

Oral LD50 2000 mg/kg (rat)

151-50-8 potassium cyanide

Oral LD50 5 mg/kg (rat)

LDLO 2.86 mg/kg (human) (RTECS)

· Primary irritant effect:

• on the skin: Caustic effect on skin and mucous membranes.

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- on the eye: Strong caustic effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

· Toxicity

· Acquatic toxicity: 151-50-8 potassium cyanide

EC50 2 mg/l (48h) (Daphnia magna (water flea))

1.8-1.9 mg/l (72h) (Eutosiphon sulcatum) (CN)

IC50 0.03 mg/l (8d) (Sc.quadricauda)

- LC50 0.45 mg/l (96h) (Lepomis macrochirus (bluegrill))
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:
- Harmful to aquatic organisms

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation

Must be specially treated adhering to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue 11 00 00 WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS: NON-FERROUS HYDRO-METALLURGY 11 01 00 wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)

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11 01 13* degreasing wastes containing dangerous substances

· Uncleaned packaging:

· Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Packagings that may not be cleansed are to be disposed of in the same manner as the product.

• Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

| · Land transport ADR/RII |) (cross-border) |
|---|--|
| UNT 200 | |
| · ADR/RID class: | 8 (C5) Corrosive substances. |
| · Danger code (Kemler): | 80 |
| · UN-Number: | 1824 |
| Packaging group: | III |
| · Hazard label | 8 |
| · UN proper shipping nam | e: 1760 CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE, POTASSIUN CYANIDE) |
| · Limited quantities (LQ) | 5L |
| · Transport category | 3 |
| · Tunnel restriction code | E |
| · Maritime transport IMD | G: |
| <u></u> | |
| · IMDG Class: | 8 |
| · UN Number: | 1824 |
| · Label | 8 |
| Packaging group: | III |
| · EMS Number: | F-A,S-B |
| · Marine pollutant: | No |
| · Segregation groups | Alkalis |
| Proper shipping name: | SODIUM HYDROXIDE SOLUTION, mixture |
| · Air transport ICAO-TI a | nd IATA-DGR: |
| Str. 24 | |
| · ICAO/IATA Class: | 8 |
| · UN/ID Number: | 1824 |
| ·Label | 8 |
| · Packaging group: | III |
| · Proper shipping name: | SODIUM HYDROXIDE SOLUTION, mixture |
| · UN "Model Regulation" | UN1824, SODIUM HYDROXIDE SOLUTION, mixture, 8, III |
| | ser Warning: Corrosive substances. |
| Special precautions for u | (Contd. on page |
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• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

15 Regulatory information

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

- · National regulations:
- · Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H300 Fatal if swallowed.
- H310 Fatal in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H330 Fatal if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

- R32 Contact with acids liberates very toxic gas.
- R35 Causes severe burns.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- · Department issuing MSDS: Abteilung Umweltschutz
- Contact: Herr Marcus Müller
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent
- * * Data compared to the previous version altered.