

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 07.10.2016

Version: 1.01

Revision: 07.10.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** **NACERA® Classic Liquid**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:** No further relevant information available.
- **Application of the substance / the preparation:** Paint
- **Uses advised against -**
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier/Manufacturer:**
DOCERAM Medical Ceramics GmbH
Heßlingsweg 65-67
44309 Dortmund
Germany
Tel.: +49-231-92 56 68-0
Fax: +49-231-92 56 68-60
- **Email competent person:** sds@kft.de
- **Information department:** See supplier/manufacturer
- **1.4 Emergency telephone number:**
GIZ-Nord, Göttingen, Germany
+49 551 19240

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

Met. Corr.1 H290 May be corrosive to metals.
 Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

- **Information concerning particular hazards for human and environment:**
Based on the classification criteria for mixtures according to Regulation (EC) No. 1272/2008, the mixture is subject to labelling.
- **Classification system:**
The classification complies with current legislation, but is supplemented with information from technical literature and company information.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS05

- **Signal word** Danger
- **Hazard-determining components of labelling:**
iron trichloride
- **Hazard statements**
H290 May be corrosive to metals.

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H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements

P280 Wear protective gloves / eye protection / face protection.

P234 Keep only in original container.

P264 Wash hands thoroughly after handling.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P302+P352 IF ON SKIN: Wash with plenty of water.

Additional information:

Contains acetic acid, chromium salt, basic. May produce an allergic reaction.

2.3 Other hazards**Results of PBT and vPvB assessment**• **PBT:** Not applicable• **vPvB:** Not applicable

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures• **Description:** Mixture of the substances listed below with nonhazardous additions.**Dangerous components:**

| | | |
|-------------------|--|-------|
| CAS: 10024-93-8 | neodymium trichloride | 5-10% |
| EINECS: 233-031-5 | Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 | |

| | | |
|-------------------|--|------|
| CAS: 10025-77-1 | iron trichloride | 1-5% |
| EINECS: 231-729-4 | Met. Corr.1, H290; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315 | |

| | | |
|----------------------------|---|------|
| CAS: 7647-01-0 | hydrogen chloride | < 1% |
| EINECS: 231-595-7 | Met. Corr.1, H290; Skin Corr. 1B, H314; STOT SE 3, H335 | |
| Index number: 017-002-01-X | | |

| | | |
|-------------------|-----------------------------------|------|
| CAS: 39430-51-8 | acetic acid, chromium salt, basic | < 1% |
| EINECS: 254-447-3 | Skin Sens. 1B, H317 | |

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

SECTION 4: First aid measures

4.1 Description of first aid measures**General information:**

Immediately remove any clothing soiled by the product.

If symptoms persist or in case of doubt, seek medical advice.

• **After inhalation:** In case of unconsciousness, place patients on their side in a stable position for transportation.**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Cover wound with a sterile dressing.

Seek medical treatment.

After eye contact:

Protect unharmed eye.

Rinse the eyes with open eyelids for 10 - 15 minutes with water. Then consult an eye specialist immediately.

After swallowing:

Drink lots of water and provide fresh air. Call a doctor immediately.

Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions

Local irritation symptoms

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· 4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment

In cases of irritation to the lungs, initial treatment with Dexametason metered aerosol

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents: No data available

· 5.2 Special hazards arising from the substance or mixture Non-combustible. No hazardous thermal decomposition.

· 5.3 Advice for firefighters

· Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Avoid contact with eyes and skin.

· 6.2 Environmental precautions:

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

Do not allow to penetrate the ground/soil.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Make sure to recycle or dispose of in suitable receptacles.

· 6.4 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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling Avoid contact with eyes and skin.

· Information about protection against explosions and fires: Observe the general rules of industrial fire protection.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Store container tightly sealed at a cool and dry place with sufficient ventilation.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from metals.

Store away from feed.

Refer to national regulations for storing hazardous chemicals.

· Further information about storage conditions: None

· Storage class: 10-13 other combustible and non-combustible substances

· 7.3 Specific end use(s) No further relevant information available

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.

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· 8.1 Control parameters

· Components with limit values that require monitoring at the workplace:

7647-01-0 hydrogen chloride

WEL (Great Britain) Short-term value: 8 mg/m³, 5 ppm
 Long-term value: 2 mg/m³, 1 ppm
 (gas and aerosol mists)

IOELV (European Union) Short-term value: 15 mg/m³, 10 ppm
 Long-term value: 8 mg/m³, 5 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.

· 8.2 Exposure controls

· Personal protective equipment:

· **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

· **Breathing equipment:** Not required

· Protection of hands:

Chemical resistant gloves (EN 374)

The glove material has to be impermeable and resistant to the product/substance/preparation.

Due to missing tests no recommendation to the glove material can be given for the product / preparation / chemical mixture.

Selection of the glove material in consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves:

The selection of suitable gloves depends upon the material, and also upon the quality of the gloves. The degree of protection will vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material:

The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Goggles recommended during refilling

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information:

· Appearance:

Form: Liquid
 Colour: Different according to colouring

· **Odour:** Characteristic

· **Odour threshold:** Not determined

· **pH-value at 20 °C:** 1-2

· Change in condition:

Melting point/Melting range: ~ 0 °C
 Boiling point/Boiling range: ~ 100 °C

· **Flash point:** Not applicable

· **Flammability (solid, gaseous):** Not applicable

· **Ignition temperature:** Not determined

· **Decomposition temperature:** Not determined

· **Self ignition temperature:** Product is not self-igniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· Explosion limits:

Lower: Not applicable
 Upper: Not applicable

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| | |
|---|---|
| · Oxidizing properties: | Non-oxidizing |
| · Vapour pressure: | Not determined |
| · Density at 20 °C: | ~ 1 g/cm ³ |
| · Relative density: | Not determined |
| · Vapour density: | Not determined |
| · Evaporation rate: | Not determined |
| · Solubility in / Miscibility with Water: | Partly miscible |
| · Partition coefficient (n-octanol/water): | Not determined |
| · Viscosity: | |
| dynamic: | Not determined |
| kinematic: | Not determined |
| · Solvent content: | |
| Organic solvents: | 0.0 % |
| Water: | 50.5 % |
| Solids content: | 4.9 % |
| · 9.2 Other information | No further relevant information available |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available
- **10.5 Incompatible materials:** Metals
- **10.6 Hazardous decomposition products:**
No hazardous decomposition products if instructions for storage and handling are followed
- **Additional information:** Corrosive to metals

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:**
ATE oral: > 5000 mg/kg
- **10025-77-1 iron trichloride**
Oral LD₅₀ 1872 mg/kg (rat)
- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation** One component has sensitising properties.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

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- **Aspiration hazard** Based on available data, the classification criteria are not met.


SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available
- **12.2 Persistence and degradability** No further relevant information available
- **Other information:** The product has not been tested.
- **12.3 Bioaccumulative potential** No further relevant information available
- **12.4 Mobility in soil** No further relevant information available
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous to water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Danger to drinking water is possible if large quantities leak into the ground or into water course.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **12.6 Other adverse effects** No further relevant information available

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**
Must be recycled or disposed of according to the regulations. Waste has to be classified according to the European Waste Catalogue based on the identification of the waste generating source.
Disposal according to instructions of local authorities
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|--|---|
| <ul style="list-style-type: none"> • 14.1 UN-Number • ADR, IMDG, IATA | UN3264 |
| <ul style="list-style-type: none"> • 14.2 UN proper shipping name • ADR • IMDG, IATA | 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. |
| <ul style="list-style-type: none"> • 14.3 Transport hazard class(es) • ADR <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • Class | |

8 (3264) Corrosive substances

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| | |
|---|--|
| · Label | 8 |
| · IMDG, IATA | |
|  | |
| · Class | 8 Corrosive substances |
| · Label | 8 |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | III |
| · 14.5 Environmental hazards: | Not applicable |
| · 14.6 Special precautions for user | Warning: Corrosive substances |
| · Danger code (Kemler): | 80 |
| · EMS Number: | F-A,S-B |
| · Segregation groups: | Acids |
| · Stowage Category | A |
| · Stowage Code | SW2 Clear of living quarters. |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable |
| · Transport/Additional information: | |
| · ADR | |
| · Limited quantities (LQ): | 5l |
| · Excepted quantities (EQ) | Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |
| · Transport category: | 3 |
| · Tunnel restriction code: | (E8) |
| · IMDG | |
| · Limited quantities (LQ) | 5l |
| · Excepted quantities (EQ) | Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |
| · IATA | |
| · Remarks: | Packing Instructions: For Limited Quantities: Y841 (Max Net Qty/Pkg: 1.0 l) Passenger and Cargo Aircraft: 852 (Max Net Qty/Pkg: 5 l) Cargo Aircraft only: 856 (Max Net Qty/Pkg: 60 l) |
| · UN "Model Regulation": | UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III |

SECTION 15: Regulatory information

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

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I hydrogen chloride
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- National regulations
- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water

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- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 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.

- **Reasons for amendments:** Information chapter 9

- **Replaces version dated:** 26.07.2016

- **Relevant phrases**

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

- **Classification according to Regulation (EC) No 1272/2008**

Eye Dam. 1 calculation method
Skin Irrit. 2 calculation method
Considering specific concentration limits

- **Department issuing SDS:**

KFT Chemieservice GmbH
Im Leuschnerpark. 3 64347 Griesheim
Postfach 1451 64345 Griesheim
Germany

Phone: +49 6155 8981 400 Fax: +49 6155 8981 500

Safety Data Sheet Service: +49 6155 8981 522

- **Contact:** Dr. Daniela Krimm

- **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

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1B: Skin sensitisation – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

- *** Data compared to the previous version altered.**

Changes have been made to sections marked with a *, as compared to the previous version.