

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 15.04.2009

Revision: 15.04.2009

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

- **Product details**

- **Trade name:** *Instru Clean*

- **Application of the substance / the preparation** *Instrument cleaner*

- **Manufacturer/Supplier:**

Laboratorium Dr. Deppe

Hooghe Weg 35

47906 Kempen

Phone: 0049(0)2152/5565-0

Fax: 0049(0)2152/50849

- **Further information obtainable from:** *Abteilung Produktsicherheit*

- **Information in case of emergency:**

Tel.: 0049 (0)2152 5565-0

Mo. - Do.: 8:00 - 17:00 Uhr

Fr.: 8:00 - 16:00 Uhr

2 Hazards identification

- **Hazard description:**



Xi Irritant

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 36/38 Irritating to eyes and skin.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **GHS label elements**



Warning

3.2/2 - Causes skin irritation.

3.3/2A - Causes serious eye irritation.

- **Prevention:**

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

- **Response:**

IF ON SKIN: Wash with plenty of soap and water.

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

Specific treatment (see label).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

3 Composition/information on ingredients

- **Chemical characterization**

- **Description:** *Mixture of substances listed below with nonhazardous additions.*

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· Dangerous components:

CAS: 139-13-9 EINECS: 205-355-7	nitrilotriacetic acid	 Xn; R 22 Danger:  3.1.O/3	25-50%
CAS: 497-19-8 EINECS: 207-838-8 Index number: 011-005-00-2	sodium carbonate	 Xi; R 36 Warning:  3.3/2A	25-50%
CAS: 6834-92-0 EINECS: 229-912-9 Index number: 014-010-00-8	disodium metasilicate	 C,  Xi; R 34-37 Danger:  3.2/1B Warning:  3.8/3	25-50%

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

4 First aid measures

- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Pick up mechanically.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Prevent formation of dust.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **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.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.

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*Immediately remove all soiled and contaminated clothing**Avoid contact with the eyes and skin.*· **Respiratory protection:** *Not required.*· **Protection of hands:**

Protective gloves

· **Material of gloves***Natural rubber, NR**The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies 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 break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*· **Eye protection:***Goggles recommended during refilling*

Tightly sealed goggles

9 Physical and chemical properties

· General Information

Form:	<i>Powder</i>
Colour:	<i>Whitish</i>
Odour:	<i>Characteristic</i>

· Change in condition

Melting point/Melting range: *Undetermined.***Boiling point/Boiling range:** *Undetermined.*· **Flash point:** *Not applicable.*· **Ignition temperature:** *200°C*· **Self-igniting:** *Product is not selfigniting.*· **Danger of explosion:** *Product does not present an explosion hazard.*

· Explosion limits:

Lower: *3,2 Vol %***Upper:** *53,0 Vol %*· **Vapour pressure at 20°C:** *23 hPa*· **Density:** *Not determined.*

· Solubility in / Miscibility with water:

Insoluble.· **pH-value at 20°C:** *11*

· Solvent content:

Organic solvents: *0,0 %***Water:** *6,2 %***VOC (EC)** *0,00 %*

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· **Solids content:** 93,8 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Acute toxicity:**· **LD/LC50 values relevant for classification:****139-13-9 nitrilotriacetic acid**

Oral LD50 1100 mg/kg (rat)

6834-92-0 disodium metasilicate

Oral LD50 1280 mg/kg (rat)

· **Primary irritant effect:**· **on the skin:** Irritant to skin and mucous membranes.· **on the eye:** Irritating 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:

Irritant

12 Ecological information

· **General notes:**

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.

13 Disposal considerations

· **Product:**· **Recommendation**

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

· **Uncleaned packaging:**· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **Land transport ADR/RID (cross-border)**· **ADR/RID class:** -· **Maritime transport IMDG:**· **IMDG Class:** -· **Marine pollutant:** No

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- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **UN "Model Regulation":** -

15 Regulatory information

- **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals.
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**
Xi Irritant
- **Hazard-determining components of labelling:**
nitrilotriacetic acid
disodium metasilicate
- **Risk phrases:**
36/38 Irritating to eyes and skin.
- **Safety phrases:**
2 Keep out of the reach of children.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37 Wear suitable gloves.

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 R-phrases**
22 Harmful if swallowed.
34 Causes burns.
36 Irritating to eyes.
37 Irritating to respiratory system.
- **Department issuing MSDS:** Abteilung Produktsicherheit
- **Contact:** Herr Dr. Deppe
- **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 internationale 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
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

EU