

### Safety data sheet according to 1907/2006/EC, Article 31

Printing date 25.10.2023

Version number 76 (replaces version 75)

Revision: 25.10.2023

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

· **1.1 Product identifier**

· **Product name: DEHA Reagent Solution**

· **Catalog number:** 424403, 461181, 461184, 461185, 424403-0, 424403-100

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

· **Application of the substance / the preparation:** Reagent for water analysis

· **1.3 Details of the supplier of the safety data sheet**

· **Supplier:**

Tintometer GmbH  
Schleefstraße 8-12  
44287 Dortmund  
Made in Germany  
www.lovibond.com

phone: +49 (0)231 94510-0  
e-mail: sales@lovibond.com

The Tintometer Limited  
Lovibond® House  
Sun Rise Way  
Amesbury  
Wiltshire SP4 7GR  
United Kingdom

phone : +44 1980 664800  
e-mail: SDS@lovibond.uk

· **Informing department:**

e-mail: sds@lovibond.com  
Product Safety Department

· **1.4 Emergency telephone number:**

+44 1235 239670  
Languages: English

#### 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.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

· **Hazard pictograms**



GHS05

· **Signal word** Danger

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**Product name: DEHA Reagent Solution**

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**Hazard-determining components of labelling:**

nitric acid 4.8%

**Hazard statements**

H290 May be corrosive to metals.

H315 Causes skin irritation.

H318 Causes serious eye damage.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection.

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 doctor.

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

P390 Absorb spillage to prevent material damage.

**2.3 Other hazards** No further relevant information available.**Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

**Determination of endocrine-disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Description:** aqueous solution**Dangerous components:**

CAS: 7697-37-2 EINECS: 231-714-2 Index No: 007-030-00-3 Reg.nr.: 01-2119487297-23-XXXX	nitric acid Ox. Liq. 3, H272; Acute Tox. 3, H331; Met. Corr. 1, H290; Skin Corr. 1A, H314, EUH071 ATE: LC50/4h inhalative: 2.65 mg/l Specific concentration limits: Ox. Liq. 3; H272: C ≥ 65 % Skin Corr. 1A; H314: C ≥ 20 % Skin Corr. 1B; H314: 5 % ≤ C < 20 %	2.5–<5%
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**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** Instantly remove any clothing soiled by the product.**After inhalation** Supply fresh air; consult doctor in case of symptoms.**After skin contact**

Instantly rinse with water.

If skin irritation continues, consult a doctor.

**After eye contact** Rinse opened eye for several minutes (at least 15 min) under running water. Then consult doctor.**After swallowing**

Rinse out mouth and then drink 1-2 glasses of water.

In case of persistent symptoms consult doctor.

**4.2 Most important symptoms and effects, both acute and delayed:**

Irritation and corrosion

after inhalation:

mucosal irritations, cough, shortness of breath

after swallowing:

mucous membrane irritation

vomiting

diarrhoea

pain

after absorption of large amounts:

methaemoglobinaemia

**Danger**

Danger of impaired breathing.

Danger of system failure.

Risk of serious damage to eyes.

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 · **4.3 Indication of any immediate medical attention and special treatment needed:** No further relevant information available.
 

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
  - **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
  - **5.2 Special hazards arising from the substance or mixture**  
The product is not combustible.  
Formation of toxic gases is possible during heating or in case of fire.  
Can be released in case of fire:  
nitrous gases  
Nitrogen oxides (NO<sub>x</sub>)
  - **5.3 Advice for firefighters**
  - **Protective equipment:**  
Wear self-contained breathing apparatus.  
Wear full protective suit.
  - **Additional information**  
Collect contaminated fire fighting water separately. It must not enter drains.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Ambient fire may liberate hazardous vapours.
- 

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - **Advice for non-emergency personnel:**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation
  - **Advice for emergency responders:** Protective equipment: see section 8
  - **6.2 Environmental precautions:** Do not allow product to reach sewage system or water bodies.
  - **6.3 Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Neutralize with diluted sodium hydroxide solution or by throwing on lime sand, lime or sodium carbonate.  
Absorb with liquid-binding material (sand, diatomite, universal binders).  
Dispose of contaminated material as waste according to item 13.
  - **6.4 Reference to other sections**  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.
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### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
- **Advice on safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Hygiene measures:**  
Avoid contact with the skin.  
Avoid contact with the eyes.  
Take off immediately all contaminated clothing.  
Wash hands during breaks and at the end of the work.  
Do not eat, drink or smoke when using this product.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and containers:**  
Store in cool location.  
Keep only in original packaging.
- **Information about storage in one common storage facility:**  
Store away from metals.  
Do not store together with alkalis (caustic solutions).
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Protect from heat and direct sunlight.  
Protect from the effects of light.  
Protect from humidity and keep away from water.

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- **Recommended storage temperature:** 20°C +/- 5°C
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

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

###### CAS: 7697-37-2 nitric acid

WEL (Great Britain)	Short-term value: 2.6 mg/m <sup>3</sup> , 1 ppm
IOELV (European Union)	Short-term value: 2.6 mg/m <sup>3</sup> , 1 ppm

#### · Regulatory information

WEL (Great Britain): EH40/2020

IOELV (European Union): (EU) 2019/1831

#### · Recommended monitoring procedures:

Methods for measurement of the workplace atmosphere have to correspond to the requirements of norms DIN EN 482 and DIN EN 689.

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

#### · 8.2 Exposure controls

##### · Engineering measures:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See item 7.

##### · Individual protection measures, such as personal protective equipment

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled.

##### · Eye/face protection

Tightly sealed safety glasses.

Use safety glasses that have been tested and approved in accordance with government standards such as EN 166.

##### · Hand protection

Protective gloves.

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

##### · Material of gloves

nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

##### · Penetration time of glove material

Value for the permeation: Level = 1 ( < 10 min )

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

##### · Other skin protection (body protection):

Protective work clothing.

##### · Breathing equipment:

Use breathing protection against the effects of fumes/dust/aerosol.

##### · Recommended filter device for short term use:

Combination filter E-P2

· **Environmental exposure controls** Do not allow product to reach sewage system or water bodies.

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

· <b>Physical state</b>	Fluid
· <b>Form:</b>	Solution
· <b>Colour:</b>	Yellowish
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Not determined.
· <b>Melting point/Freezing point:</b>	Not determined.
· <b>Boiling point or initial boiling point and boiling range</b>	Not determined.
· <b>Flammability</b>	The product is not combustible.
· <b>Explosive properties:</b>	Product is not explosive.
· <b>Lower and upper explosion limit</b>	
<b>Lower:</b>	Not applicable.
<b>Upper:</b>	Not applicable.

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· <b>Flash point:</b>	Not applicable.
· <b>Auto-ignition temperature:</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH at 20°C</b>	< 1 Strongly acidic
· <b>Kinematic viscosity</b>	Not determined.
· <b>Solubility</b>	
· <b>Water:</b>	Fully miscible
· <b>Partition coefficient n-octanol/water (log value)</b>	Not applicable (mixture).
· <b>Vapour pressure:</b>	Not determined.
· <b>Density and/or relative density</b>	
· <b>Density at 20°C:</b>	1.04 g/cm <sup>3</sup>
· <b>Relative density:</b>	Not determined.
· <b>Relative gas density</b>	Not determined.
· <b>Particle characteristics</b>	Not applicable (liquid).
· <b>9.2 Other information</b>	.
· <b>Information with regard to physical hazard classes</b>	.
· <b>Corrosive to metals</b>	May be corrosive to metals.
· <b>Metals that are corroded by the substance or mixture</b>	Information on incompatible materials can be found in Sections 7 and 10.
· <b>Other safety characteristics</b>	
· <b>Oxidising properties:</b>	none
· <b>Additional information</b>	
· <b>Solids content:</b>	< 2 %
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	0 %
· <b>Water:</b>	> 90 %

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** see section 10.3
- **10.2 Chemical stability** Stable at ambient temperature (room temperature).
- **10.3 Possibility of hazardous reactions**  
 Reacts with metals forming hydrogen (Danger of explosion in case of large amounts!)  
 Corrosive action on metals  
 Reacts with reducing agents  
 Reacts with acids and alkali (lyes).  
 Reacts with ammonia (NH<sub>3</sub>).
- **10.4 Conditions to avoid** To avoid thermal decomposition do not overheat.
- **10.5 Incompatible materials:**  
 metals  
 alkali metals  
 organic solvents  
 organic substances  
 metal, lye
- **10.6 Hazardous decomposition products:** see section 5

## SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>CAS: 7697-37-2 nitric acid</b>		
Oral	LDLo	430 mg/kg (human) (IUCLID)
Inhalative	LC50/4h	2.65 mg/l (ATE) Registrant, ECHA: Under the conditions of the study (OECD 403) the LC50 for male and female rats after inhalation exposure to vapor atmosphere of nitric acid containing 0.8 % aerosol fraction is > 2.65 mg/L (referring to pure nitric acid).

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- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye damage.  
Risk of corneal clouding.
- **Information on components:** CAS 7697-37-2: chronic: dermatitis
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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 (specific target organ toxicity) -single exposure** Based on available data, the classification criteria are not met.
- **STOT (specific target organ toxicity) -repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### Information on likely routes of exposure

An intake of nitric acid (during occupational handling) is mainly to be expected via the respiratory tract. Exposure to acid vapors caused irritation to the eyes and skin but damage to the airways is of the greatest concern. [GESTIS]

### Additional toxicological information:

The following applies to soluble iron compounds: nausea and vomiting after swallowing. The absorption of large quantities is followed by cardiovascular disorders. Toxic effect on liver and kidneys.

#### CAS: 7697-37-2 nitric acid

- (source: GESTIS)
- Main toxic effects  
Acute: Irritation and corrosion to the eyes, airways and skin, danger of severe damage to the eyes and lungs, after swallowing life threatening chemical burns in the gastrointestinal tract  
Chronic: Diseases of the airways, damage to the teeth

### 11.2 Information on other hazards

- **Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **Other information**  
According to the information available to us, the chemical, physical and toxicological properties of the substances mentioned in Chapter 3 have not been thoroughly investigated.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity:

##### CAS: 7697-37-2 nitric acid

LC50	72 mg/l/96h (mosquitofish) (IUCLID)
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### 12.2 Persistence and degradability .

#### Other information:

Mixture of inorganic compounds.  
Methods for the determination of biodegradability are not applicable to inorganic substances.

### 12.3 Bioaccumulative potential

Pow = n-octanol/wasser partition coefficient  
log Pow < 1 = Does not accumulate in organisms.

#### CAS: 7697-37-2 nitric acid

log Pow	-2.3 (.)
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- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**  
This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**  
Depending on the concentration, phosphorus and/or nitrogen compounds may contribute to the eutrophication of water supplies.  
Harmful effect due to pH shift.  
Avoid transfer into the environment.
- **Water hazard:**  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

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Must not reach sewage water or drainage ditch undiluted or unneutralised.

### SECTION 13: Disposal considerations

**13.1 Waste treatment methods**
**Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Hand over to disposers of hazardous waste.

**European waste catalogue**

16 05 07 | discarded inorganic chemicals consisting of or containing dangerous substances

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

**Recommended cleaning agent:** Water, if necessary with cleaning agent.

### SECTION 14: Transport information

**14.1 UN number or ID number**
**ADR, IMDG, IATA** UN3264

**14.2 UN proper shipping name**
**ADR** 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)  
**IMDG, IATA** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)

**14.3 Transport hazard class(es)**
**ADR**

**Class** 8 (C1) Corrosive substances.  
**Label** 8

**IMDG, IATA**

**Class** 8 Corrosive substances.  
**Label** 8

**14.4 Packing group**
**ADR, IMDG, IATA** III

**14.5 Environmental hazards:**
**Marine pollutant:** No

**14.6 Special precautions for user**
**Warning:** Corrosive substances.  
**Kemler Number:** 80  
**EMS Number:** F-A,S-B  
**Segregation groups** (SGG1) Acids  
**Stowage Category** A  
**Stowage Code** SW2 Clear of living quarters.  
**Segregation Code** SG36 Stow "separated from" SGG18-alkalis.  
 SG49 Stow "separated from" SGG6-cyanides

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

**Transport/Additional information:**
**ADR**
**Excepted quantities (EQ):** E1

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· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	E
<hr style="border-top: 1px dashed black;"/>	
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

### \* SECTION 15: Regulatory information

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

##### · Poisons Act UK

##### · Regulated explosives precursors

The substance falls under regulated explosive precursors due to the fact that the concentration is greater than/equal ( $\geq x\%$ ) the stated mass percentage:

CAS: 7697-37-2	nitric acid	3%
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##### · Regulated poisons

None of the ingredients is listed.

##### · Reportable explosives precursors

None of the ingredients is listed.

##### · Reportable poisons

None of the ingredients is listed.

##### · Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Please see <https://ec.europa.eu>

##### · explosives precursors - ANNEX I

CAS: 7697-37-2	nitric acid	*
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##### · Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC)

None of the ingredients is listed.

##### · Regulation (EC) No 1334/2000 setting up a Community regime for the control of exports of dual-use items and technology:

None of the ingredients is listed.

##### · Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

##### · Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

##### · Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:

None of the ingredients is listed.

##### · REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)

None of the ingredients is listed.

##### · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

None of the ingredients is listed.

##### · Substances of very high concern (SVHC) according to REACH, Article 57

This product does not contain any substances of very high concern above the legal concentration limit of  $\geq 0.1\%$  (w / w).

##### · Substances of very high concern (SVHC) according to UK REACH

This product does not contain any substances of very high concern above the legal concentration limit of  $\geq 0.1\%$  (w / w).

##### · Directive 2012/18/EU (SEVESO III):

##### · Named dangerous substances - ANNEX I None of the ingredients is listed.

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- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
  - **Information about limitation of use:** Not required.
  - **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.
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### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Training hints** Provide adequate information, instruction and training for operators.
- **Relevant phrases**
  - H272 May intensify fire; oxidiser.
  - H290 May be corrosive to metals.
  - H314 Causes severe skin burns and eye damage.
  - H331 Toxic if inhaled.
  - EUH071 Corrosive to the respiratory tract.
- **Abbreviations and acronyms:**
  - ICAO: International Civil Aviation Organisation
  - EC50: effective concentration, 50 percent (in vivo)
  - OECD: Organisation for Economic Co-operation and Development
  - STOT: specific target organ toxicity
    - SE: single exposure
    - RE: repeated exposure
  - EC50: half maximal effective concentration
  - IC50: half maximal inhibitory concentration
  - NOEL or NOEC: No Observed Effect Level or Concentration
  - ADR: Accord relatif au transport international 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
  - 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
  - SVHC: Substances of Very High Concern
  - vPvB: very Persistent and very Bioaccumulative
  - Ox. Liq. 3: Oxidizing liquids – Category 3
  - Met. Corr. 1: Corrosive to metals – Category 1
  - Acute Tox. 3: Acute toxicity – Category 3
  - Skin Corr. 1A: Skin corrosion/irritation – Category 1A
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- **Sources**
  - Data arise from safety data sheets, reference works and literature.
  - ECCHA: European CHEMicals Agency <http://echa.europa.eu>
  - IUCLID (International Uniform Chemical Information Database)
  - GESTIS- Stoffdatenbank (Substance Database, Germany)
- **\* Data compared to the previous version altered.**

— GB —