

SAFETY DATA SHEET

according to Regulation 1907/2006/EC (REACH)

SECTION 1: IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIER

Product name: **Stop Solution**

Reference Number: 00-5007-01

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Identified uses: The test system is for laboratory use only, not for drug, household or other purposes. The product is intended for professional users only.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company: MacroArray Diagnostics GmbH

Address: Lemböckgasse 59, Top 4
1230 Vienna
Austria

Phone: +43 (0)1 865 2573

Email: office@madx.com

1.4. EMERGENCY TELEPHONE NUMBER

Poison information center: +43 1 406 43 43

Outside Austria (AT): Call your regional Poisons Information Service or call local Life Saving Service

SECTION 2: HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to regulation EC No 1272/2008

Eye irritation (Category 2), H319

2.2. LABEL ELEMENTS

Ethylenediaminetetraacetic acid, 1-10%, CAS 60-00-4



GHS07

Signal Word: Warning

Hazard statements: H319 - Causes serious eye irritation

Precautionary statements: P264 – Wash skin intensively after use.
P280 – wear eye protection/face 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.
P337 + P313 – in case of persisting eye irritation – contact medical advice.

2.3. OTHER HAZARDS

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. SUBSTANCES

Not applicable

3.2. MIXTURES

Component	Chemical substance	Classification/Statements according to Regulation (EC) No 1272/2008 for pure chemical substance	Conc.
Stop Solution	Ethylenediaminetetraacetic acid (EDTA)-Solution CAS-Nr.: 60-00-4	Serious eye damage/eye irritation (Category 2)	1-10%

SECTION 4: FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No data available

SECTION 5: FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide, dry powder

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Carbon oxides, nitrogen oxides (NO_x)

5.3. ADVICE FOR FIREFIGHTERS

Wear self-contained breathing apparatus for firefighting if necessary.

5.4. ADDITIONAL INFORMATION

Product package burns like paper or plastic.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2. ENVIRONMENTAL PRECAUTIONS

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.

6.4. REFERENCE TO OTHER SECTIONS

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

For precautions see section 2.2.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep container tightly closed in a dry place. Recommended storage temperature see product label.

7.3. SPECIFIC END USE(S)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Does not contain substances with occupational exposure limits exceeding a concentration of 0.1% in the product.

8.2. EXPOSURE CONTROLS

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

- **Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- **Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: > 480 min

Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: > 480 min

Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

- **Body Protection:** Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- **Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
- **Control of environmental exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Properties	EDTA
Physical state	liquid
Color	Clear colorless
Odour	Odourless
Odour Threshold	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flammability	No data available
Lower/upper explosive limits	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available

Properties	EDTA
pH	No data available
Viscosity	No data available
Solubility	No data available
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Density	No data available
Vapour density	No data available
Particle characteristics	Not applicable
Explosive properties	No data available
Oxidizing properties	No data available

9.2. OTHER INFORMATION

No data available

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY

No data available.

10.2. CHEMICAL STABILITY

Stable under recommended storage conditions.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

No data available.

10.4. CONDITIONS TO AVOID

No data available.

10.5. INCOMPATIBLE MATERIALS

Copper, Copper alloys, Nickel

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous decomposition products formed under fire conditions. - No data available

Other decomposition products - No data available

In the event of fire: see section 5

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008

Mixture:

Toxicological effects	EDTA
Acute toxicity	Oral: No data available Dermal: No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	Mixture causes serious eye irritation
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available

Toxicological effects	EDTA
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available

11.2. INFORMATION ON OTHER HAZARDS

Endocrine disrupting properties:

Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Components:

Ethylenediaminetetraacetic acid (EDTA; RTECS: AH4025000)

Toxicological effects	EDTA
Acute toxicity	LD50 Oral - rat - male and female – 4 500 mg/kg
Skin corrosion/irritation	Skin - rabbit Result: No skin irritation
Serious eye damage/eye irritation	Eyes - rabbit Result: Eye irritation
Respiratory or skin sensitisation	Maximisation Test - rabbit Result: Does not cause skin sensitisation.
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

Mixture:

No data available

Components:

Ethylenediaminetetraacetic acid (EDTA; RTECS: AH4025000)

Toxicity	EDTA
Toxicity to fish	static test LC50 - Lepomis macrochirus (Bluegill sunfish) - 41 mg/l - 96 h
Toxicity to algae	-
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) – 625 mg/l - 48 h

12.2.PERSISTENCE AND DEGRADABILITY

No data available

12.3.BIOACCUMULATIVE POTENTIAL

No data available

12.4.MOBILITY IN SOIL

No data available

12.5.RESULTS OF PBT AND VPVB ASSESSMENT

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6.ENDOCRINE DISRUPTING PROPERTIES

The mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7.OTHER ADVERSE EFFECTS

A contamination of the environment has to be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1.WASTE TREATMENT METHODS

Product

Product residues must be disposed of in compliance with national and regional regulations. Leave chemicals in original containers. Do not mix with other waste.

Contaminated packaging

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

14.1.UN NUMBER OR ID NUMBER

ADR/RID: -

IMDG: -

IATA: -

14.2.UN PROPER SHIPPING NAME

ADR/RID: No dangerous good

IMDG: No dangerous good

IATA: No dangerous good

14.3.TRANSPORT HAZARD CLASS(ES)

ADR/RID: -

IMDG: -

IATA: -

14.4.PACKAGING GROUP

ADR/RID: -

IMDG: -

IATA: -

14.5.ENVIRONMENTAL HAZARDS

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6.SPECIAL PRECAUTIONS FOR USER

No data available

14.7. MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS

No data available

SECTION 15: REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2. CHEMICAL SAFETY ASSESSMENT

For this product, a chemical safety assessment was not carried out

SECTION 16: OTHER INFORMATION

16.1. LIST OF H AND P STATEMENTS

H319 - Causes serious eye irritation

P264 – Wash skin intensively after use.

P280 – wear eye protection/face 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.

P337 + P313 – in case of persisting eye irritation – contact medical advice.

16.2. TRAINING ADVICE

Regular safety training.

16.3. RECOMMENDED RESTRICTIONS ON USE

Only for professional users.

16.4. FURTHER INFORMATION

This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. MacroArray Diagnostics makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, MacroArray Diagnostics will not be responsible for damages resulting from use of or reliance upon this information.

16.5. CHANGE HISTORY

Version	Description	Replaces
01	New compilation	-
02	Implementation of Regulation (EU) 2020/878	01
03	Section 14.7 added	02
04	P280 added to Section 2.2 and 16.1	03