

Useable for:

MS E-5800 25-OH Vitamin D (total) ELISA

Single components with dangerous ingredients:

REF: FR E-0080 Stop Solution STOP-SOLN

REF: MS E-5826 Release Reagent RELEASE REAG

Not listed single components contain no hazardous substances in concentrations to be declared, a labelling is not required.

1 Identification of the substance / mixture and of the company / undertaking**1.1 Product identifier**

Trade name: Stop Solution STOP-SOLN
Article number: **FR E-0080**

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses:

laboratory reagent / Immunoassay
The product is intended for professional use.

1.3 Details of the supplier of the safety data sheet**Manufacturer / Supplier:**

LDN Labor Diagnostika Nord GmbH & Co. KG
Am Eichenhain 1
48531 Nordhorn, Germany
Phone +49 5921 8197 200
Fax +49 5921 8197 201
E-Mail support@ldn.de

1.4 Emergency telephone number

+49 5921 8197 200

2 Hazards identification**2.1 Classification of the substance or mixture**

REGULATION (EC) No 1272/2008
Corrosive to metals, Category 1, H290
Skin corrosive, Category 1A, H314

2.2 Label elements

REGULATION (EC) No 1272/2008
Hazard pictograms:

**Signal word:**

Warning

Hazard statements:

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements:

P234 Keep only in original packaging.
P390 Absorb spillage to prevent material damage.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352 IF ON SKIN: Wash with plenty of water and soap.

2.3 Other hazards

None known.

3 Composition / information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

Composition / information on ingredients

CAS: 7664-93-9 sulphuric acid < 5 %
H290; H314

Additional information:

For the full text of the H-Statements mentioned in this section, see section 16.

4 First aid measures

4.1 First aid measures

After inhalation: fresh air, consult doctor in case of complaints.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist if necessary.

After swallowing: drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

irritant effects.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media:

For this mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Special protective equipment for firefighters:

In the event of fire, wear self-contained breathing apparatus.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Protective equipment see section 8.

6.2 Environmental precautions

No special precautionary measures necessary.

6.3 Methods and materials for containment and cleaning up

Observe possible material restrictions! Take up with liquid-absorbent and neutralising material. Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about possible material restrictions see sections 7 and 10 and about waste treatment see section 13.

7 Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling:

Observe label precautions.

Hygiene measures:

Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:

Tightly closed and dry.

7.3 Specific end use(s)

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

8 Exposure controls / personal protection**8.1 Control parameters**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls

Engineering measures:

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

See section 7.1.

Individual protection measures:

General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately. Avoid contact with the eyes and skin.

Respiratory protection:

In case of good room ventilation, not necessary.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Protective gloves.

Material of gloves:

Chemical protection gloves are to be selected according to the concentration and quantity of the hazardous substance concentration and quantity in workplace.

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

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

Eye protection:

Tightly sealed goggles



Body protection:

lab coat

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|------------------------------|
| Form | liquid |
| Colour | colourless |
| Odour | odourless |
| Odour threshold | Not applicable |
| pH | 1,0 |
| Melting point | No information available. |
| Boiling point/boiling range | No information available. |
| Flash point | No information available. |
| Evaporation rate | No information available. |
| Flammability (solid, gas) | No information available. |
| Lower explosion limit | No information available. |
| Upper explosion limit | No information available. |
| Vapour pressure | No information available. |
| Relative vapour density | No information available. |
| Density | No information available. |
| Relative density | No information available. |
| Water solubility | soluble |
| Partition coefficient: n-octanol/water | No information available. |
| Auto-ignition temperature | No information available. |
| Decomposition temperature | No information available. |
| Viscosity, dynamic | No information available. |
| Explosive properties | Not classified as explosive. |
| Oxidizing properties | none |

9.2 Other data

Corrosion: May be corrosive to metals.

10 Stability and reactivity

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Corrosive effect on metals.

10.4 Conditions to avoid

Heat

10.5 Incompatible materials

Metals

10.6 Hazardous decomposition products

No dangerous decomposition products known.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

sulphuric acid

oral LD50 2140 mg/kg (rat)

inhalative LC50/4h 0.375 mg/l (rat)

Skin corrosion/irritation

May cause irritation to the skin.

Serious eye damage/irritation

May cause irritation to the eyes.

Respiratory or skin sensitisation

No sensitizing effects known.

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

Reproductive toxicity

No information available.

STOT-single exposure

No information available.

STOT-repeated exposure

No information available.

Aspiration hazard

No information available.

11.2 Additional information

On the basis of the morphology of the product, no hazardous properties are to be expected when it is handled and used with appropriate care.
Handle in accordance with good industrial hygiene and safety practice.

12 Ecological information

12.1 Toxicity

sulphuric acid

EC50/48h (static) > 100 mg/l (Daphnia magna)

LC50/72h (static) > 100 mg/l (Desmodesmus subspicatus)

LC50/96h (static) > 16 > 28 mg/l (Lepomis macrochirus)

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not conducted.

12.6 Other adverse effects

No further relevant information available.

13 Disposal considerations

13.1 Waste treatment methods

Dispose of packaging according to applicable local, state, and federal regulations.

Packaging's that may not be cleansed are to be disposed of in the same manner as the product.

14 Transport information

This product is part of a kit. Information in this section refers to the kit as a whole.

14.1 UN No.

No dangerous good in sense of this transport regulation.

14.2 UN Proper shipping name

No dangerous good in sense of this transport regulation.

14.3 Class

No dangerous good in sense of this transport regulation.

14.4 Packing group

No dangerous good in sense of this transport regulation.

14.5 Environmental hazards

no.

14.6 Special precautions for user

no.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

15 Regulatory information

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

EU regulations

Major Accident Hazard: SEVESO III

Not applicable

Employment restrictions:

Observe employment restrictions in accordance with the youth employment protection regulations (94/33/EC).

Substances of very high concern (SVHC):

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH).

National legislation

Water hazard class:

Water hazard class 1 (slightly hazardous for water)

Storage class:

8B

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not 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:

H290

May be corrosive to metals.

H314

Causes severe skin burns and eye damage.

Department issuing SDS:

Safety Representative

Contact:

LDN

1 Identification of the substance / mixture and of the company / undertaking**1.1 Product identifier****Trade name:****Release Reagent**

RELEASE REAG

Article number:**MS E-5826****1.2 Relevant identified uses of the substance or mixture and uses advised against**
Identified uses:

laboratory reagent / Immunoassay

The product is intended for professional use.

1.3 Details of the supplier of the safety data sheet**Manufacturer / Supplier:**

LDN Labor Diagnostika Nord GmbH & Co. KG

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1.4 Emergency telephone number

+49 5921 8197 200

2 Hazards identification**2.1 Classification of the substance or mixture****2.2 Label elements****REGULATION (EC) No 1272/2008****Hazard pictograms:****Signal word:**

Warning

Hazard statements:

H317

May cause an allergic skin reaction.

Precautionary statements:

P280

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

P302 + P352

IF ON SKIN: Wash with plenty of soap and water

P333 + P313

If skin irritation or rash occurs: Get medical advice/attention.

P363

Wash contaminated clothing before reuse.

2.3 Other hazards

Contains proteins from bovine, ovine and murine origin.

3 Composition / information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

Composition / information on ingredients

CAS: 55965-84-9 reaction mass of: 5-chloro-2- methyl-4-
isothiazolin-3-one [EC no. 247-500-7] and 2-
methyl-2H -isothiazol-3- one
[EC no. 220-239-6] (3:1); reaction mass of: < 0.06 %
5-chloro-2- methyl-4-isothiazolin-3-one
[EC no. 247-500-7] and 2-methyl-4-
isothiazolin-3- one
[EC no. 220-239-6] (3:1)
H331, H311, H301, H314, H317, H400, H410

Additional information:

For the full text of the H-Statements mentioned in this section, see section 16.

4 First aid measures

4.1 First aid measures

After skin contact:

- Wash immediately with soap and plenty of water for at least 10 minutes.
- Consult a physician.
- Remove and wash contaminated clothing before re-use.

After eye contact:

- Wash immediately with plenty of water for at least 15 minutes.
- Consult immediately a physician

After ingestion:

- Let drink a lot of water
- Consult a physician.

After inhalation:

- Transfer the person to an open place.
- If he does not breathe, proceed to artificial respiration or provide oxygen.
- Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

All non-combustible extinguishing media allowed

Unsuitable extinguishing media:

No data available.

5.2 Special hazards arising from the substance or mixture

No generation of hazardous or toxic gases in dangerous quantities.

5.3 Advice for firefighters

Instructions:

Due to small quantities: no special instructions apply

Special protective equipment for firefighters:

Wear a breathing apparatus and protective clothing to avoid all contact with the skin and eyes.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

See Section 8.

6.2 Environmental precautions

Prevent soil and water pollution

Discharge according to local regulations

6.3 Methods and materials for containment and cleaning up

Take up liquid spill into absorbent material

Discharge of absorbed material according to local regulations

Clean contaminated surfaces with water

6.4 Reference to other sections

Personal protection equipment: see section 8.

7 Handling and storage

7.1 Precautions for safe handling

Observe normal hygiene standards

Discharge according to local regulations

Remove and clean contaminated clothing

Handle and open the container with care

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed

Meet the legal requirements

Keep away from: heat sources, combustible materials, acids.

Storage temperature: see component label

7.3 Specific end use(s)

Use only in accordance with the Instructions for Use supplied with the 25-OH Vitamin D (total) ELISA kit

8 Exposure controls / personal protection**8.1 Control parameters****Components with workplace control parameters**

Data not available

8.2 Exposure controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

- Hand Protection - Gloves
- Eye Protection - Safety goggles
- Face shields
- Skin Protection - Protective Clothing

9 Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Physical state: liquid

9.2 Other data

No further relevant information available.

10 Stability and reactivity**10.1 Reactivity**

No data available

10.2 Chemical stability

Stable until expiry date if stored at specified conditions (see label)

10.3 Possibility of hazardous reactions

No hazardous decomposition products are formed in high quantities

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available

11 Toxicological information

11.1 Information on toxicological effects

ProClin 300 (contains mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2Methyl-2H -isothiazol-3-one (3:1)):

Acute toxicity

No data available

Skin corrosion/irritation

Skin - rabbit - Corrosive

Serious eye damage/irritation

Eyes - rabbit - Corrosive to eyes

Respiratory or skin sensitisation

May cause allergic skin reaction.

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

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

No data available

Potential Health effects

Inhalation Harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion Harmful if swallowed. Causes burns.

Skin May be harmful if absorbed through skin. Causes skin burns.

Eyes Causes eye burns.

Aggravated Medical Condition

May provoke asthmatic response in persons with asthma who are sensitive to airway irritants

11.2 Additional information

Not available.

12 Ecological information

12.1 Toxicity

Aquatic toxicity

No data available

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

No data available

12.6 Other adverse effects

ProClin 300: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13 Disposal considerations**13.1 Waste treatment methods**

Provisions relating to waste:

Hazardous waste (2008/98/EC)

Packaging/container:

Waste material code packaging (2008/98/EC):

15 01 10 (packaging containing residues of or contaminated by hazardous substances)

Disposal methods:

The component should be considered as potentially infectious and hazardous waste. It should be disposed of following established safety procedures and local regulations..

14 Transport information**14.1 UN No.**

ADR, ADN, IMDG, IATA Void

14.2 UN Proper shipping name

ADR, ADN, IMDG, IATA Void

14.3 Class

ADR, ADN, IMDG, IATA Void

14.4 Packing group

ADR, IMDG, IATA Void

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15 Regulatory information

This Safety Data Sheet is according to Commission Regulation (EU) 2015/830 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

No data available.

15.2 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.

"H code" used in this safety data sheet

H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H331 Toxic if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

"P code" used in this safety data sheet

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.