

**Useable for:**

**BA E-2700 Tryptophan ELISA**  
**IS I-2400R N1-Acetyl-Spermidine ELISA**

**Single components with dangerous ingredients:**

<b>REF: BA E-0080</b>	<b><u>Stop Solution</u></b>	<b>STOP-SOLN</b>
<b>REF: BA E-2446</b>	<b><u>D-Reagent</u></b>	<b>D-REAGENT</b>

**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:****BA 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 &amp; 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.

**Precautionary statements:**

P234 Keep only in original packaging.

P390 Absorb spillage to prevent material damage.

**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  $\geq 1\% - < 5\%$   
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 substance/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	ca. 1.0 at 20 °C
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	ca. 1.02 g/cm <sup>3</sup> at 20 °C
Relative density	No information available
Water solubility	at 20 °C 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**

No dangerous reactions known.

**10.4 Conditions to avoid**

No further relevant information available.

**10.5 Incompatible materials**

No further relevant information available.

**10.6 Hazardous decomposition products**

No dangerous decomposition products known.

**11 Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

No information available.

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Causes eye irritation.

**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**

No further relevant information available.

**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.**

3264

**14.2 UN Proper shipping name**

CORROSIVE LIQUID, ACIDIC, INORGANICS, N.O.S.

**14.3 Class**

8

**14.4 Packing group**

III

**14.5 Environmental hazards**

None.

**14.6 Special precautions for user**

None.

**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:

not water hazardous

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:** D-Reagent D-REAGENT  
**Article number:** BA E-2446

**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  
Email 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**

Skin Sensitizer, Category 1, H317

**2.2 Label elements****REGULATION (EC) No 1272/2008****Hazard pictograms:****Signal word:**

Caution

**Hazard statements:**

H317 May cause an allergic skin reaction.

**Precautionary statements:**

P261 Avoid breathing mist/vapours/spray.  
P280 Wear protective gloves/ protective clothing.  
P302 + P352 IF ON SKIN: Wash with plenty of water/soap.  
P333 + P313 If skin irritation or a rash occurs: Get medical advice/attention.

**2.3 Other hazards**

None known.

### 3 Composition / information on ingredients

#### 3.1 Substances

Not applicable.

#### 3.2 Mixtures

##### Composition / information on ingredients

CAS: 111-30-8      Glutaraldehyde      < 1 %  
H331; H301; H314; H334, H317, H400

##### 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

Eye contact: Immediately rinse thoroughly with plenty of water for at least 10 minutes, even under the eyelids. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin contact: Remove contaminated clothing immediately; ensure self-protection. Clean with plenty of water and soap.

Ingestion: Immediate strong rinsing of the mouth. Drink water in small sips (dilution effect).

Inhalation: Fresh air. Consult a physician. In case of respiratory arrest: Immediately use mechanical ventilation, oxygen supply if necessary.

Protection of First-aiders: Use personal protective equipment.

#### 4.2 Most important symptoms and effects, both acute and delayed

Inhalation, ingestion or skin contact may cause damage to health. May cause allergic skin reactions. May irritate gastrointestinal tract. Temporary complaints such as coughing, dizziness, nausea, tiredness, headaches may occur. May cause health problems such as lung damage. Sensitized persons may react to very low concentrations of glutaraldehyde and should therefore have no further contact with these substances.

#### 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:

No information available.

#### 5.2 Special hazards arising from the substance or mixture

Ambient fire may cause dangerous fumes.

#### 5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand,

MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Note for untrained emergency personnel: Do not inhale vapour/aerosol. Avoid substance contact. Provide adequate ventilation. Clear danger zone, proceed according to emergency plan, call in experts.

### 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

### 6.3 Methods and materials for containment and cleaning up

Wear protective goggles and gloves when removing. Seal the sewer system. After spilling, absorb with absorbent material and proceed as described under Disposal considerations.

### 6.4 Reference to other sections

Refer to protective measures listed in sections 8 and 13.

## 7 Handling and storage

### 7.1 Precautions for safe handling

Wear personal protective equipment. Do not expose to eyes, skin or clothing. Change contaminated clothing immediately. Preventive skin protection. Wash hands after work. Use skin care products after skin cleansing at the end of work (moisturizing cream). Do not take. Do not inhale vapours and spray mist.

### 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	No information available
Odour Threshold	No information available
pH	No information available
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	Completely 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**

No other data available.

**10 Stability and reactivity****10.1 Reactivity**

See section 10.3

**10.2 Chemical stability**

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

**10.3 Possibility of hazardous reactions**

Hazardous Polymerization: Hazardous polymerization does not occur.  
Hazardous Reactions: None under normal processing.

**10.4 Conditions to avoid**

heating

**10.5 Incompatible materials**

Aluminium, various metals

**10.6 Hazardous decomposition products**

Thermal decomposition can lead to release of irritating gases and vapors.

**11 Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

No information available.

**Skin corrosion/irritation**

No information available.

**Serious eye damage/irritation**

No information available.

**Respiratory or skin sensitisation**

May cause allergic skin reactions.

**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.

**12 Ecological information****12.1 Toxicity**

No further relevant information available.

**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**

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.

Take note of Dir 94/33/EC on the protection of young people at work.

Take note of Dir 92/85/EC on the protection of pregnant and breastfeeding women at work.

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

National legislation

Water hazard class: WGK 2

Storage class: 12

**15.2 Chemical Safety Assessment**

Chemical Safety Assessment / Reports (CSA/CSR) are not required for mixtures.

**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:**

H331	Toxic if inhaled
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.

**Department issuing SDS:**

Safety Representative

**Contact:**

LDN

