Useable for:

BA E-2700  Tryptophan ELISA

Single components with dangerous ingredients:

<table>
<thead>
<tr>
<th>REF:</th>
<th>BA E-0080</th>
<th>Stop Solution</th>
<th>STOP-SOLN</th>
</tr>
</thead>
<tbody>
<tr>
<td>REF:</td>
<td>BA E-2446</td>
<td>D-Reagent</td>
<td>D-REAGENT</td>
</tr>
</tbody>
</table>

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
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 & 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 ≥ 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>ca. 1.0 at 20 °C</td>
</tr>
<tr>
<td>Melting point</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability</td>
<td>No information available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No information available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No information available</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>No information available</td>
</tr>
<tr>
<td>Density</td>
<td>ca. 1.02 g/cm³ at 20 °C</td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>at 20 °C soluble</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No information available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No information available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not classified as explosive</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>none</td>
</tr>
</tbody>
</table>

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
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).
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