

Safety Data Sheet



Revision Date: 7/25/2014

SDS # SDS-10151-02

StableDAB Solution B

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:

StableDAB Solution B

Product Code

37-00-83

Hazardous Reagent

StableDAB Solution B

Hazardous Reagent Product code

Catalog No. listed above

Recommended Use Reagent

Contact Manufacturer KPL, Inc.
910 Clopper Road
Gaithersburg, Maryland 20878
USA

Phone #: 1-301-948-7755

Fax #: 1-301-948-0169

Web: www.kpl.com

Email: kplmsds@seracare.com

Emergency Telephone Numbers:

AUSTRALIA – POISONS INFORMATION CENTER

Telephone: 13 11 26

Hours: 24 hours

CANADIAN TRANSPORT EMERGENCY CENTER

Telephone: (1) 613 996 6666

Hours: 24 hours/day, 7 days/week

UK – THE NATIONAL FOCUS

Telephone: (44) 029 2041 6388

Hours: 09:00-17:00 GMT

USA- NATIONAL RESPONSE CENTER

Telephone: (1) 800 424 8802

Hours: 24 hours/day, 7 days/week

CHEMTREC:

CHEMTREC Customer Number:- CCN12505*

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300 CCN12505 or

+1 703-527-3887 (collect calls accepted)

2. HAZARD IDENTIFICATION

Hazard Type

3,3'-Diaminobenzidine Tetrahydrochloride Hydrate - Suspected Carcinogen

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

GHS Classification

3,3'-Diaminobenzidine Tetrahydrochloride Hydrate

CAS-No. : 868272-85-9

Carcinogenicity, Category 2; H351

Acute toxicity, Category 4, oral; H302

Skin irritation, Category 2; H315

Eye irritation, Category 2; H319

Specific Target Organ Toxicity (single exposure), Category 3; H335

Hazard Statements:

H351: Suspected of causing cancer.

H302: Harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Precautionary Statements: P281: Use personal protective equipment as required.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313: IF exposed or concerned: Get medical advice/attention.

Symbols and Indications of Danger: GHS08 GHS07: Danger



Principle Route of Exposure The substance can be absorbed into the body by inhalation, through the skin and by ingestion.

Acute Effects: Eye: May cause redness and blurred vision.

Acute Effects: Skin: Dry skin and Irritation may occur

Acute Effects: Inhalation: Headache and Nausea may occur.

Acute Effects: Ingestion: Nausea, Vomiting and Drowsiness may occur

Chronic Effects: Not Available

Additional Information Not Available

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CHEMICAL</u>	<u>% Weight</u>	<u>CAS #:</u>
StableDAB Solution B	1,2,6 Trihydroxyhexane	55.45%	106-69-4
	3,3'-Diaminobenzidine Tetrahydrochloride Hydrate	1.5%	868272-85-9

GHS Classification 3,3'-Diaminobenzidine Tetrahydrochloride Hydrate
CAS-No. : 868272-85-9
Carcinogenicity, Category 2; H351
Acute toxicity, Category 4, oral; H302
Skin irritation, Category 2; H315
Eye irritation, Category 2; H319
Specific Target Organ Toxicity (single exposure), Category 3; H335

4. FIRST AID MEASURES

General Advice Wash contaminated clothing before reuse.

Oral Exposure Do not induce vomiting. Refer for medical attention.

Inhalation Exposure Remove subject to fresh air. Seek medical attention if necessary.

Skin Exposure Remove contaminated clothes. Rinse and then wash skin with water and soap. Seek medical attention if irritation persists.

Eye Exposure First rinse with plenty of water for several minutes (remove contact lenses if easily possible). Seek medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Extinguishing media Foam, Alcohol Foam, CO₂, Dry Chemical and Water/Fog

Unusual Fire and Explosive Hazards	May emit toxic fumes under fire conditions.
Flash Point	Not Available
Autoignition Temperature	Not Applicable
Flammability Statement	Not Applicable
Specific hazards arising from the chemical	May emit toxic fumes under fire conditions. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Protective equipment and precautions for firefighters	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin and clothing.
Environmental Precautions	Not Available
Method of Containment	Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place.
Methods of Clean-up	Clean-up with copious amounts of water.
Other Information	Not Applicable

7. HANDLING AND STORAGE

Handling:	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.
Storage:	Store at 4°C. Separated from strong oxidants. Keep away from heat, sparks, and flame. Keep away from sources of ignition. Keep container closed when not in use.

8. EXPOSURE CONTROL

Respiratory Protection	None required if good ventilation is maintained. Otherwise wear MSHA/NIOSH approved respirator suitable for vapor or mist concentrations encountered. May be harmful if inhaled in very large quantities.
Eye Protection	Safety spectacles.
Skin Protection	Protective gloves. Protective clothing.
Ingestion	Do not eat, drink, or smoke during work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light to medium brown solution. Relatively free of particulate matter
Physical State	Liquid
Odor	Not Applicable
Odor Threshold	Not Applicable
pH	Not Available
Boiling Point	Data for 1,2,6 Trihydroxyhexane:- 178 deg C @ 6.70mm Hg
Evaporation Rate	Not Available
Vapor Density	Data for 1,2,6 Trihydroxyhexane:- 4.63
Vapor Pressure	Data for 1,2,6 Trihydroxyhexane:- 0.1 mm Hg @ 20

Relative Density	Not Available
Auto-Ignition Temperature	Not Available
Water Solubility	Dilutable
Flammability	Data for 1,2,6 Trihydroxyhexane:- Combustible
Flash Point	Not Available
Viscosity	Data for 1,2,6 Trihydroxyhexane:- cP 20 deg C
Oxidizing Properties	Not Available
Explosive Properties	Not Available
Additional Parameters	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable.
Conditions to avoid	Not Available
Incompatibility Materials to Avoid	Other strong oxidizing agents, acid chlorides, acid anhydrides
Hazardous Decomposition Products	Upon evaporation of water, may emit carbon monoxide, carbon dioxide, SO X
Hazardous Polymerization	Will not occur
Possibility of hazardous reactions	Not Available

11. TOXICOLOGY MEASURES

Acute Toxicity

The toxicological risks are minor due to the low concentration of hazardous ingredients. The following toxicological information is for the hazardous ingredient in pure form.

LD50 Oral	Not Available
LD50 Dermal	Not Available
LC50 Inhalation	Not Available

Chronic Toxicity

Carcinogenicity	Data for 100% 3,3'-Diaminobenzidine Tetrahydrochloride Hydrate: May Cause Cancer
Irritation	Yes. May occur
Corrosivity	Not Available
Sensitization	Not Available
Neurological Effects	Not Available
Mutagenic Effects	Data for 100% 3,3'-Diaminobenzidine Tetrahydrochloride Hydrate: Suspected of causing genetic defects.
Reproductive Effects	Not Available
Developmental Effects	Not Available
Target Organ Effects	Not Available
Other adverse effects	Not Available

12. ECOLOGICAL MEASURES

Ecotoxicity	Not Available
Persistence/Degradability	Not Available

Mobility in Environmental Media Not Available

Bioaccumulation/ Accumulation Not Available

13. DISPOSAL MEASURES

Waste Disposal Method: Observe all Federal, State and Local laws concerning health and pollution. Avoid escape into water, drainage, sewer, or the ground. If there is no way of recycling it must be disposed of in compliance with the respective national and local regulations.

Contaminated Packaging: Avoid contact with skin and clothing. Dispose of in compliance with the respective national and local regulations.

US EPA Waste Number: Not Available

14. TRANSPORTATION MEASURES

DOT: Not Available

IATA: Not Available

ADR (road)/ RID (rail): Not Available

IMDG (sea): Not Available

General Transport Regulations Not Available

15. REGULATORY MEASURES

This product is a mixture that may contain one or more hazardous chemicals. The hazardous ingredients listed are only those as required by 29 CFR 1910.1200 (OSHA HCS).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains no chemical or chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (See 40 CFR 61)

Not Listed

State Regulations

California Proposition 65:

This product contains the following Proposition 65 chemicals: None of the chemicals in this product are listed.

State Right to Know Act

Chemical Name	1,2,6 Trihydroxyhexane	3,3'-Diaminobenzidine Tetrahydrochloride Hydrate
Massachusetts	Not Listed	Not Listed
New Jersey	Not Listed	Not Listed
Pennsylvania	Not Listed	Not Listed
New York	Not Listed	Not Listed
Rhode Island	Not Listed	Not Listed

International Inventories

Chemical Name	1,2,6 Trihydroxyhexane	3,3'-Diaminobenzidine Tetrahydrochloride Hydrate
TSCA	Listed	Listed
DSL	Listed	Listed

NDSL	Not Listed	Not Listed
EINECS	Listed	Listed
CHINA	Listed	Listed
KECL	Listed	Not Listed
JAPAN:	Listed	Listed
AICS	Listed	Listed

The product does not contain a hazardous ingredient in an amount that requires identification and labeling according to EC directives.

Annex I Index#	Annex ID: Not Available 3,3'-Diaminobenzidine tetrahydrochloride Hydrate 3,3',4,4'-Tetraaminobiphenyl tetrahydrochloride DAB CAS-No. : 868272-85-9 EC-No. : 231-018-9 SUBSTANCE GROUP CODE 133210 Chlorides 144930 Salts of aromatic amines 144201 Amino compounds, aromatic (amino group on the ring)
Classification	3,3'-Diaminobenzidine Tetrahydrochloride Hydrate CAS-No. : 868272-85-9 Carcinogenicity, Category 2; H351 Acute toxicity, Category 4, oral; H302 Skin irritation, Category 2; H315 Eye irritation, Category 2; H319 Specific Target Organ Toxicity (single exposure), Category 3; H335
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Symbols and Indications of Danger	GHS08 GHS07: Danger
Specific Concentration Limits	Not Applicable
Export and Import	This substance is not listed in the Annex I of Regulation (EC) No 649/2012.
European Priority List	This substance is not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances.)

16. OTHER INFORMATION

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. KPL shall not be held liable for any damage resulting from handling or from contact with the above product. Users should make their own investigations to determine the suitability of the information for their particular purposes. This material is sold for research purposes and is intended as laboratory reagents only. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals.