

Safety Data Sheet



Revision Date: 7/21/2014

Stable DAB Solution A

SDS #: SDS-10160-02

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:

Stable DAB Solution A

Product Code

37-00-82

Hazardous Reagent

Stable DAB Solution A

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
CANADIAN TRANSPORT EMERGENCY CENTER
UK – THE NATIONAL FOCUS
USA- NATIONAL RESPONSE CENTER

Telephone: 13 11 26
Telephone: (1) 613 996 6666
Telephone: (44) 029 2041 6388
Telephone: (1) 800 424 8802

Hours: 24 hours
Hours: 24 hours/day, 7 days/week
Hours: 09:00-17:00 GMT
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	GHS Classification in accordance with 29 CFR 1910 (OSHA HCS): The product contains no substances which at their given concentration, are considered to be hazardous to health or the environment.
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:	None Available
Additional Information	The product contains no substances which at their given concentration, are considered to be

hazardous to health

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CHEMICAL</u>	<u>% Weight</u>	<u>CAS #:</u>
Stable DAB Solution A	Dimethylsulfoxide	≤ 1.0%	67-68-5
	1,2,6-Hexanetriol	≤ 1.0 %	106-69-4
	Hydrogen Peroxide, 30%	<0.1%	7722-84-1

GHS Classification

Not Applicable:

The product contains no substances which at their given concentration, are considered to be hazardous to health or the environment as per:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Regulation (EC) No 1272/2008

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	Rinse with copious amounts of water
Eye Exposure	Rinse with copious amount of water

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	Data for 100% Dimethylsulfoxide:- 87°C c.c.
Autoignition Temperature	Not Available
Flammability Statement	Not Available
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: Handle in accordance with good industrial hygiene and safety practice.

Storage: Store at room temperature. Separated from strong oxidants.

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
Physical State	Liquid
Odor	Not Available
Odor Threshold	Not Available
pH	5.35 - 5.65
Boiling Point	Data for 100% Dimethylsulfoxide:- 189°C
Evaporation Rate	Not Available
Vapor Density	Data for 100% Dimethylsulfoxide:- (air = 1): 2.7
Vapor Pressure	Data for 100% Dimethylsulfoxide:- Pa at 20°C: 59.4
Relative Density	Data for 100% Dimethylsulfoxide:- (water = 1): 1.1
Auto-Ignition Temperature	Data for 100% Dimethylsulfoxide:- 215°C
Water Solubility	Dilutable
Flammability	Data for 100% Dimethylsulfoxide:- Combustible
Flash Point	Data for 100% Dimethylsulfoxide:- 87°C c.c.
Viscosity	Not Available
Oxidizing Properties	Data for 100% Dimethylsulfoxide:- vol% in air: 2.6-42.0
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 Data for Dimethylsulfoxide:- LD50 oral rat: 14500 mg/kg

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LD50 Dermal

Reference: Toxicology and Applied Pharmacology. Vol. 15, Pg. 74, 1969.

Data for Dimethylsulfoxide:- LD50 dermal rat/rabbit: 40000 mg/kg

Species: Rat

Reference: Annals of the New York Academy of Sciences. Vol. 141, Pg. 96, 1967.

LC50 Inhalation

Not Available

Chronic Toxicity**Carcinogenicity**

Not Available

Irritation

Yes. May occur

Corrosivity

Not Available

Sensitization

Not Available

Neurological Effects

Not Available

Mutagenic Effects

Not Available

Reproductive Effects

Not Available

Developmental Effects

Not Available

Target Organ Effects

Not Available

Other adverse effects

Not Available

12. ECOLOGICAL MEASURES**Ecotoxicity**

Data for 100% Dimethylsulfoxide: LC50 Fish (96 hours)

Minimum: 34000 mg/l

Maximum: 38400 mg/l

Median: 36200 mg/l

Study number: 2

Reference: Geiger, D.L., L.T. Brooke, and D.J. Call 1990. Acute Toxicities of Organic Chemicals to Fathead Minnows (*Pimephales promelas*), Volume 5. Ctr. for Lake Superior Environ. Stud., Univ. of Wisconsin-Superior, Superior, WI :332 p.; Mayer, F.L.Jr., and M.R. Ellersieck 1986. Manual of Acute Toxicity: Interpretation and Data Base for 410 Chemicals and 66 Species of Freshwater Animals. Resour. Publ. No. 160, U.S. Dep. Interior, Fish Wildl. Serv., Washington, DC :505 p. (USGS Data File)

Persistence/Degradability

Data for 100% Dimethylsulfoxide: No Biodegradation Chemicals Inspection and Testing Institute; Biodegradation and bioaccumulation data of existing chemicals based on the CSCL Japan. Japan Chemical Industry Ecology - Toxicology and Information Center. ISBN 4-89074-101-1 (1992)]

Mobility in Environmental Media

Data for 100% Dimethylsulfoxide: Koc of approximately 4(SRC) - Has very high mobility in soil. [(1) Hansch C et al; Exploring QSAR. Hydrophobic, Electronic, and Steric Constants. ACS Prof Ref Book. Heller SR, consult. ed., Washington, DC: Amer Chem Soc p. 5 (1995) (2) Lyman WJ et al; Handbook of Chemical Property Estimation Methods. Washington, DC: Amer Chem Soc pp. 4-9 (1990) (3) Swann RL et al; Res Rev 85: 17-28 (1983)]

Bioaccumulation/ Accumulation

Not Available

13. DISPOSAL MEASURES**Waste Disposal Method:**

Observe all Federal, State and Local laws concerning health and pollution.

Contaminated Packaging:

Observe all Federal, State and Local laws concerning health and pollution.

US EPA Waste Number:

Not Applicable

14. TRANSPORTATION MEASURES

SDS #: SDS-10160-02

DOT: Not Available
 IATA: Not Available
 ADR (road)/ RID (rail): Not Available
 IMDG (sea): Not Available

General Transport Regulations Not Applicable

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)

This product contains no chemical or chemicals which are subject to the reporting requirements of the Clean Air Act.

State Regulations

California Proposition 65:

This product contains the following Proposition 65 chemicals: Not Listed

State Right to Know Act

Chemical Name	Dimethylsulfoxide	1,2,6-Hexanetriol	Hydrogen Peroxide, 30%
Massachusetts	Not Listed	Not Listed	Listed
New Jersey	Listed	Not Listed	Listed
Pennsylvania	Not Listed	Not Listed	Listed
New York	Not Listed	Not Listed	Listed
Rhode Island	Not Listed	Not Listed	Listed

International Inventories

Chemical Name	Dimethylsulfoxide	1,2,6-Hexanetriol	Hydrogen Peroxide, 30%
TSCA	Listed	Listed	Listed
DSL	Listed	Listed	Listed
NDSL	Not Listed	Not Listed	Not Listed
EINECS	Listed	Listed	Listed
CHINA	Listed	Listed	Listed
KECL	Listed	Listed	Listed
JAPAN:	Listed	Listed	Listed
AICS	Listed	Listed	Listed

EU Regulations

Annex I Index# Not Applicable

Classification

Not Applicable:

The product contains no substances which at their given concentration, are considered to be hazardous to health or the environment as per:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
 Regulation (EC) No 1272/2008

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Risk Phrases	Not Applicable
Safety Phrases	Not Applicable
Symbols and Indications of Danger	Not Applicable
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.

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