



Methyl-d3-magnesium iodide solution: sc-235856

MATERIAL SAFETY DATA SHEET

The Power to Question

SECTION 1 - PRODUCT AND COMPANY INFORMATION

Product Name: Methyl-d3-magnesium iodide solution
 Catalog Number: sc-235856
 Supplier: Santa Cruz Biotechnology, Inc.
 2145 Delaware Ave.
 Santa Cruz, California 95060
 800.457.3801 or 831.457.3800
 Emergency: ChemWatch
 Within the US & Canada: 877-715-9305
 Outside the US & Canada: +800 2436 2255
 (1-800-CHEMCALL) or call +613 9573 3112

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENT

<u>Substance Name</u>	<u>CAS #</u>	<u>SARA 313</u>
Methyl-d3-magnesium iodide solution	41251-37-0	No

<u>Ingredient Name</u>	<u>CAS #</u>	<u>%</u>	<u>SARA 313</u>
Methyl-d3-magnesium iodide solution	41251-37-0	-	No
Diethyl Ether, Inhibitor Free	60-29-7	-	No

Synonyms: Trideutero-methylmagnesium iodide
 Formula: CD₃Mgl
 Molecular Weight: 169.26

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Flammable (USA) Extremely Flammable (EU). Corrosive.
 Reacts violently with water. Harmful by inhalation, in contact with skin and if swallowed. Causes burns. Limited evidence of a carcinogenic effect. Possible mutagen.
 Target organ(s): Central nervous system.

HMIS RATING

HEALTH: 3*
 FLAMMABILITY: 4
 REACTIVITY: 3
 SPECIAL HAZARD(S): Water reactive

NFPA RATING

HEALTH: 3
 FLAMMABILITY: 4
 REACTIVITY: 3
 SPECIAL HAZARD(S): Water reactive

*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

SECTION 4 - FIRST AID MEASURES

ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

EYE EXPOSURE

Assure adequate flushing of the eyes by separating the eyelids with fingers.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE HAZARDS

Flammable Hazards: Yes

EXPLOSION HAZARDS

Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions.

FLASH POINT

- 40,000 °F. (- 40,000 °C) Method: closed cup

AUTOIGNITION TEMP

N/A

FLAMMABILITY

N/A

EXTINGUISHING MEDIA

Suitable: Dry chemical powder.
 Unsuitable: Do not use water.

FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
 Specific Hazard(s): Extremely flammable. Vapor may travel considerable distance to source of ignition and flash back.
 Specific Method(s) of Fire Fighting: Use water spray to cool fire-exposed containers.

EXPOSURE HAZARD(S)

Material: Corrosive. Toxic.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area. Shut off all sources of ignition.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors.

Ventilate area and wash spill site after material pickup is complete.

SECTION 7 - HANDLING AND STORAGE

HANDLING

User Exposure: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE

Suitable: Keep tightly closed. Keep away from heat, sparks, and open flame. Store in a cool dry place. Handle and store under nitrogen. Store at RT. Incompatible Materials: Do not allow contact with water

SECTION 8 - EXPOSURE CONTROLS / PPE

ENGINEERING CONTROLS

Use only in a chemical fume hood. Safety shower and eye bath.

PERSONAL PROTECTIVE EQUIPMENT

Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Faceshield (8-inch minimum).

GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Discard contaminated clothing and shoes.

SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

Form Faintly turbid liquid
 pH N/A
 BP/BP Range N/A
 MP/MP Range N/A

continued...

Freezing Point	. . . . .	N/A
Vapor Pressure	. . . . .	N/A
Vapor Density	. . . . .	N/A
Saturated Vapor Conc.	. . . . .	N/A
SG/Density	. . . . .	0.8800 g/cm3
Bulk Density	. . . . .	N/A
Odor Threshold	. . . . .	N/A
Volatile%	. . . . .	N/A
VOC Content	. . . . .	N/A
Water Content	. . . . .	N/A
Solvent Content	. . . . .	N/A
Evaporation Rate	. . . . .	N/A
Viscosity	. . . . .	N/A
Surface Tension	. . . . .	N/A
Partition Coefficient	. . . . .	N/A
Decomposition Temp.	. . . . .	N/A
Flash Point	. . . . .	- 40,000 °F. Method: closed cup (- 40,000 °C)
Explosion Limits	. . . . .	N/A
Flammability	. . . . .	N/A
Autoignition Temp	. . . . .	N/A
Refractive Index	. . . . .	N/A
Optical Rotation	. . . . .	N/A
Miscellaneous Data	. . . . .	N/A
Solubility	. . . . .	N/A

N/A = not available

SECTION 10 - STABILITY AND REACTIVITY

STABILITY

Materials to Avoid: Oxygen, Oxidizing agents, Alcohols, Acids
Reacts violently with water.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Hydrogen iodide.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

ROUTE OF EXPOSURE

Multiple Routes: Harmful if swallowed, inhaled, or absorbed through skin.
Causes burns.

TARGET ORGAN(S) OR SYSTEM(S)

Central nervous system.

SIGNS AND SYMPTOMS OF EXPOSURE

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

SECTION 12 - ECOLOGICAL INFORMATION

No data available.

SECTION 13 - DISPOSAL CONSIDERATIONS

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Under an inert atmosphere, cautiously add the material to dry butanol in an appropriate solvent. The chemical reaction may be vigorous and/or exothermic. Provisions must be made for the venting of large volumes of highly flammable hydrogen and/or hydrocarbon gases. Neutralize the solution with aqueous acid. Filter off any solid residues for disposal as hazardous waste. Burn the liquid portion in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

SECTION 14 - TRANSPORT INFORMATION

DOT

Proper Shipping Name: Organometallic substance, liquid, water-reactive, flammable
UN#: 3399
Class: 4.3(3)
Packing Group: Packing Group I
Hazard Label: Dangerous when wet
Hazard Label: Flammable liquid
PIH: Not PIH

IATA

Proper Shipping Name: Organometallic substance, liquid, water-reactive, flammable
IATA UN Number: 3399
Hazard Class: 4.3(3)
Packing Group: I
Not Allowed - Aircraft: FORBIDDEN

SECTION 15 - REGULATORY INFORMATION

EU ADDITIONAL CLASSIFICATION

Symbol of Danger: F+
Indication of Danger: Extremely Flammable. Corrosive.
R: 12-14/15-22-66-67
Risk Statements: Extremely flammable. Reacts violently with water, liberating extremely flammable gases. Harmful if swallowed. Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness.
S: 16-36/37/39-43-45
Safety Statements: Keep away from sources of ignition - no smoking. Wear suitable protective clothing, gloves, and eye/face protection. In case of fire, use dry powder. Never use water. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Flammable (USA) Extremely Flammable (EU).
Corrosive.
Risk Statements: Reacts violently with water. Harmful by inhalation, in contact with skin and if swallowed. Causes burns.
Limited evidence of a carcinogenic effect.
Safety Statements: Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Take precautionary measures against static discharges. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
US Statements: Possible mutagen. Target organ(s): Central nervous system.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL: Yes
NDSL: No

SECTION 16 - OTHER INFORMATION

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.
10/17/2012