A MATERIAL SAFETY DATA SHEET

Methyl Magnesium Iodide Solution

1.1 Product Identifiers:

1.2

Product Name : Methyl Magnesium Iodide Solution

CAS No : 917-64-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Supplier: Infinium Pharmachem Pvt. Ltd. (AN ISO 9001:2008 CERTIFIED CO.)

38, G.I.D.C, Sojitra

Dist: ANAND

Gujarat, India

Tel : 0091-2697-234987

Fax : 0091-2697-234987

Email : info@infiniumpharmachem.com

Synonyms:

CHLOROMETHYLMAGNESIUM; METHYL MAGNESIUM IODIDE; MAGNESIUM METHYL IODIDE; iodomethylmagnesium; methylmagnesiumiodidesol.; Methylmagnesiumiodidesol.; iodomethylmagnesium; METHYL MAGNESIUM IODIDE SOL., ~3 M IN DIE THYL ETHER.
CAS No. : 917-64-6
Molecular Weight : 166.24 g/mol
Chemical Formula : CH$_3$IMg

3.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Flammable liquids (Category 2), H225
Substances, which in contact with water, emit flammable gases (Category 1), H260
Skin corrosion (Category 1B), H314
Specific target organ toxicity - single exposure (Category 3), H336
For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC
F Highly flammable R11, R15
C Corrosive R34
Xn Harmful R22 R19, R67, R14
For the full text of the R-phrases mentioned in this Section, see Section 16.

3.2 Label elements
Labeling according Regulation (EC) No 1272/2008

Pictogram

Signal word Danger

Hazard statement(s)
H225 Highly flammable liquid and vapour.
H260 In contact with water releases flammable gases which may ignite spontaneously.

H314 Causes severe skin burns and eye damage.

H336 May cause drowsiness or dizziness.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire.

P231+P232 Handle under inert gas. Protect from moisture.

P261 Avoid breathing vapours.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P422 Store contents under inert gas.

Supplemental Hazard information (EU)

EUH014 Reacts violently with water.

EUH019 May form explosive peroxides.


Hazard symbol(s) F Highly flammable

C Corrosive

R-phrase(s)

R11 Highly flammable.

R14/15 Reacts violently with water, liberating extremely flammable gases.
R19  May form explosive peroxides.
R22  Harmful if swallowed.
R34  Causes burns.
R67  Vapours may cause drowsiness and dizziness.

S-phrase(s)
S16  Keep away from sources of ignition - No smoking.
S26  In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39  Wear suitable protective clothing, gloves and eye/face protection.
S43  In case of fire, use sand, dry chemical or alcohol-resistant foam.
S45  In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Supplemental Hazard  None

Statements

3.3 Other hazards- None

4.1 Description of first aid measures

General Advice
Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most Important symptoms & efforts, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 1

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5.1 Extinguishing Media:
Suitable extinguishing media

Dry powder

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen iodide, Magnesium oxide

5.3 Advice for firefighters

Wear self contained breathing apparatus for fighting if necessary.

5.4 Further Information

No data available.

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water.

6.4 Reference to other sections
For disposal see section 13.

7.1 Precautions for safe Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe Storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Never allow product to get in contact with water during storage.


7.3 Specific end uses
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8.1 Control parameters

Components with workplace control Parameters.

8.2 Exposure Controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection**

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**9.1 Information on Basic physical & chemical properties**

- **a) Appearance**
  - Form: liquid
  - Colour: dark gray
- **b) Odor**
  - no data available
- **c) Odor Threshold**
  - no data available
- **d) pH**
  - no data available
- **e) Melting point/freezing Point**
  - no data available
- **f) Initial boiling point and**
  - no data available
- **g) Flash point**
  - ~40 °C - closed cup
- **h) Evaporation rate**
  - no data available
- **i) Flammability (solid, gas)**
  - no data available
- **j) Upper/lower Flammability or explosive limits**
  - no data available
- **k) Vapor pressure**
  - no data available
- **l) Vapor density**
  - no data available
- **m) Relative density**
  - no data available
- **n) Water solubility**
  - no data available
o) Partition coefficient: n-octanol/water  no data available
p) Auto ignition  no data available
q) Decomposition  no data available
r) Viscosity  no data available
s) Explosive properties  no data available
t) Oxidizing properties  no data available

9.2 Other safety Information
No data available

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts violently with water.

10.4 Conditions to avoid
Conditions to avoid Heat, flames and sparks. Extremes of temperature and direct sunlight. Exposure to moisture.

10.5 Incompatible materials
Oxidizing agents, Strong acids, Oxygen, Alcohols, acids, Reacts violently with water.

10.6 Hazardous decomposition products
Other decomposition products - No data available

In the event of fire: see section 5

11.1 Information on toxicological effects

Acute toxicity
No data available

Skin corrosion/irritation
Serious eye damage/eye irritation
no data available

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
no data available

Carcinogenicity
IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity
no data available

Specific target organ toxicity - single exposure
no data available

Specific target organ toxicity - repeated exposure
no data available

Aspiration hazard
no data available

Additional Information
RTECS: Not Available

12.1 Toxicity
no data available

12.2 Persistence and degradability
no data available

12.3 Bioaccumulative potential
no data available
12.4 Mobility in soil
no data available

12.5 Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

12.6 Other adverse effects
No data available

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION
14.1 UN number
ADR/RID: - 3399 IMDG: - 3399 IATA: - 3399

14.2 UN proper shipping name
ADR/RID : ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLE (Diethyl ether, Iodomethylmagnesium)
IMDG : ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLE (Iodomethylmagnesium, Diethyl ether)
IATA : Not dangerous goods

14.3 Transport hazard class (es)
ADR/RID: - 4.3 (3) IMDG: - 4.3 (3) IATA: - 4.3 (3)

14.4 Packaging group
ADR/RID: - I IMDG: - I IATA: - I

14.5 Environmental hazards
14.6 Special precautions for user
no data available

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
no data available

15.2 Chemical Safety Assessment
For this product a chemical safety assessment was not carried out

MSDS Creation Date: 01-01-2015
Revision #1 Date: 31-12-2017

Disclaimer:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Infinium Pharmachem Pvt Ltd be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Infinium Pharmachem Pvt Ltd has been advised of the possibility of such damages.