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Email:info@infiniumpharmachem.com infinium_11@yahoo.com
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R.O. & Factory Address:-Plot No.38 - 39 GIDC Sojitra - 387240 Dist. Anand Gujarat - India Tel / Fax :++91-2697- 234987

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 CERTIFIEDCO.)

38, G.I.D.C, Sojitra

Dist: ANAND

Gujarat, India

Tel 0091-2697-234987

Fax 0091-2697-234987

Email: info@infiniumpharmachem.com

Synonyms:

CHLOROMETHYLMAGNESIUM:METHYLMAGNESI

UM IODIDE; MAGNESIUM METHYL

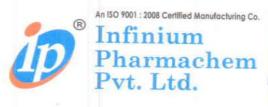
IODIDE; iodomethyl-

magnesiu;methylmagnesiumiodidesol.;Methylmagnesium

iodide

solution; iodomethylmagnesium; METHYLMAGNESIUM

IODIDE SOL., ~3 M IN DIE THYL ETHER.



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CAS No. :917-64-6

Molecular Weight : 166,24 g/mol

Chemical Formula : CH₃ 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

 \mathbf{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

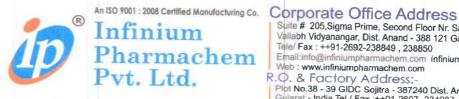


Pictogram

Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.



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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)

P 210 Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

P 223 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 + P378In 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.

According to European Directive 67/548/EEC as amended.

F Hazard symbol(s) Highly flammable

> \mathbf{C} Corrosive

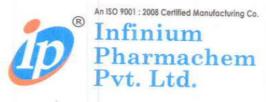


R-phrase(s)

R11 Highly flammable.

R14/15 Reacts violently with water, liberating extremely

flammable gases.



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R19 May form explosive peroxides.

Harmful if swallowed. R22

R34 Causes burns.

Vapours may cause drowsiness and dizziness. R67

S-phrase(s)

S16 Keep away from sources of ignition - No smoking.

In case of contact with eyes, rinse immediately with S26

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.



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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.



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6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing 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.

Light sensitive. Air sensitive. Heat sensitive. Handle and store under inert gas.

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



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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 backupto 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.

Form liquid

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	no data available
Point	
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	no data available
Flammability or explosive limits	
k) Vapor pressure	no data available
l) Vapor density	no data available
m) Relative density	no data available
n) Water solubility	no data available
, ·	



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o) Partition coefficient: n-octanol /water no data available

no data available p) Auto ignition

Temperature

q) Decomposition no data available

Temperature 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

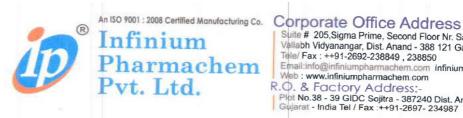
In the event of fire: see section 5

11.1 Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation



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no data available.

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



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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

ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-ADR/RID

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

IMDG: - I ADR/RID: - I IATA:-I

14.5 Environmental hazards

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IMDG Marine pollutant: no ADR/RID: no IATA: no

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: <u>01-01-2015</u> **Revision #1 Date:** 31-12-2017

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