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SAFETY DATA SHEET
Methylene Iodide

Revised April 2025

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier
Trade name: Methylene Iodide
CAS Number: 75-11-6
EC number: 200-841-5

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
Application of the substance / the mixture: Laboratory chemicals

1.3 Details of the supplier and of the safety data sheet
Manufacturer/Distributor
GeoLiquids, Inc.
15 East Palatine Road, Suite 109
Prospect Heights, IL 60070 USA
847-215-0938 | 800-827-2411

1.4 Emergency telephone number
Call INFOTRAC 1-800-535-5053 | 24 hour emergency

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture
Product definition: Substance
Classification in accordance with Regulation (EC) No 1272/2008

GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Skin Irrit. 2 H315 Causes skin irritation.
STOT SE 3 H335 May cause respiratory irritation.

Classification in accordance with Regulation Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful

R22: Harmful if swallowed.

Xi; Irritant

R37/38-41: Irritating to respiratory system and skin. Risk of serious damage to eyes.

R52: Harmful to aquatic organisms.
Information concerning particular hazards for human and environment: Not applicable.

2.2 Label Elements
Labeling according to Regulation (EC) No 1272/2008
Hazard pictograms:

GHS05

GHS07

Signal Word:	Danger
Hazard-determining components of labelling:	diiodomethane
Hazard Statements:	H302 - Harmful if swallowed H315 - Causes skin irritation H318 Causes serious eye damage H335 May cause respiratory irritation.
Precautionary Statements:	
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P270	Do not eat, drink or smoke when using this product.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
Hazard description:	
WHMIS-symbols:	
D1B:	Toxic material causing immediate and serious toxic effects
D2B:	Toxic material causing other toxic effects

NFPA ratings (scale 0 - 4)

Health=2
Fire=1
Reactivity=0

HMIS-ratings (scale 0 - 4)

Health=2
Fire=1
Reactivity=0

HMIS Long Term Health Hazard Substances: Substance is not listed.

2.3 Other hazards

Results of PBT and vPvB assessment
PBT: Not applicable.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

CAS No. Description: 75-11-6 diiodomethane
Identification number: EC number: 200-841-5

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

General information:
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Take affected persons out into the fresh air.
After inhalation:
Unlikely route of exposure.
Supply fresh air; consult doctor in case of complaints.

After skin contact:
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
After eye contact:
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing:
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed
Irritant to skin and mucous membranes.
Strong irritant with the danger of severe eye injury.
Acne
Hazards Danger of severe eye injury.

4.3 Indication of any immediate medical attention and special treatment needed
If swallowed, gastric irrigation with added, activated carbon.
If necessary oxygen respiration treatment.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
For safety reasons unsuitable extinguishing agents: None.

5.2 Special hazards arising from the substance or mixture
During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters
Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.
Additional information
Evacuate area and fight fire from the upwind side.
Cool endangered receptacles with water spray.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation

6.2 Environmental precautions:
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling
No special precautions are necessary if used correctly.
Avoid splashes or spray in enclosed areas.
Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Avoid storage near extreme heat, ignition sources or open flame.
Unsuitable material for receptacle: aluminum.
Unsuitable material for receptacle: steel.
Store only in the original receptacle.
Information about storage in one common storage facility:
Store away from foodstuffs.
Store away from oxidizing agents.

Further information about storage conditions:
Store in cool, dry conditions in well sealed receptacles.
Keep container tightly sealed.

7.3 Specific end use(s) No further relevant information available.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace: Not required.
DNELs No further relevant information available.
PNECs No further relevant information available.
Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
Personal protective equipment:
General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Respiratory protection:
Not required under normal conditions of use.
Use suitable respiratory protective device when aerosol or mist is formed.
Use suitable respiratory protective device when high concentrations are present.
NIOSH approved organic vapor respirator equipped with a dust/mist prefilter should be used.
Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection:
Contact lenses should not be worn.

Safety glasses

Body protection: Protective work clothing
Limitation and supervision of exposure into the environment
No further relevant information available.
Risk management measures
See Section 7 for additional information.
No further relevant information available.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
General Information
Appearance

Form:	Liquid
Color:	Light yellow
Odor:	Ether-like
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	42 °F / 6 °C

Boiling point/Boiling range:	359 °F / 182 °C
Flash point:	230 °F / 110 °C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Self-igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density at 20 °C:	3,33 g/cm^3
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with water at 20 °C:	14 g/l
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic at 20 °C:	3 mPas
Kinematic:	Not determined.
Organic solvents:	100,0 %

9.2 Other information: No further relevant information available.

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability
Thermal decomposition / conditions to be avoided:
No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions
Violent reactions with strong alkalis and oxidizing agents.
Reacts with various metals.
Toxic fumes may be released if heated above the decomposition point.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products:
Iodine compounds
Danger of forming toxic pyrolysis products.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity:
Primary irritant effect:
on the skin: Irritant to skin and mucous membranes.
on the eye: Strong irritant with the danger of severe eye injury.
Sensitization: No sensitizing effects known.
Additional toxicological information:
Irritant
Danger through skin adsorption.
At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.
May cause acne.
Repeated dose toxicity: May cause damage to organs through prolonged or repeated exposure.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity
Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.
Ecotoxical effects:
Remark:
Harmful to fish
Due to mechanical actions of the product (e.g. agglutinations) damages may occur.

Additional ecological information:
General notes:
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Harmful to aquatic organisms

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

SECTION 14 - TRANSPORT INFORMATION

14.1 UN-Number
DOT, ADR, IMDG, IATA UN2810

14.2 UN proper shipping name

DOT	Toxic, liquids, organic, n.o.s. (diiodomethane)
ADR	2 8 1 0 T O X I C L I Q U I D , O R G A N I C , N . O . S . (diiodomethane)
IMDG, IATA	TOXIC LIQUID, ORGANIC, N.O.S. (diiodomethane)

14.3 Transport hazard class(es)
DOT

Class	6.1 Toxic substances.
Label	6.1

ADR

Class	6.1 (T1) Toxic substances.
Label	6.1

IMDG, IATA

Class	6.1 Toxic substances.
Label	6.1

14.4 Packing group

DOT, ADR, IMDG, IATA	III

14.5 Environmental hazards:

Marine pollutant:	No

14.6 Special precautions for user Warning: Toxic substances.

Danger code (Kemler):	60

EMS Number: F-A,S-A

14.7 Transport in bulk according to Annex II of
MARPOL73/78 and the IBC Code Not applicable.
Transport/Additional information:
ADR

Limited quantities (LQ)	5L
Transport category	2
Tunnel restriction code	E
UN "Model Regulation":	UN2810, T O X IC LIQ UID, O RG ANIC, N.O .S. (diiodomethane), 6.1, III

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture

United States (USA)

SARA

Section 313 (Specific toxic chemical listings):

Substance is not listed.

TSCA (Toxic Substances Control Act):

Substance is listed.

Proposition 65 (California):

Chemicals known to cause cancer:

Substance is not listed.

Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

Chemicals known to cause developmental toxicity:

Substance is not listed.

Carcinogenic Categories

EPA (Environmental Protection Agency)

Substance is not listed.

IARC (International Agency for Research on Cancer)

Substance is not listed.

TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

Canada

Canadian Domestic Substances List (DSL)

Substance is listed.

Canadian Ingredient Disclosure list (limit 0.1%)

Substance is not listed.

Canadian Ingredient Disclosure list (limit 1%)

Substance is not listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16 - OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)

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Sources

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