



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Diiodmethan

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P102	Keep out of reach of children.
P280	Wear protective gloves/protective clothing and eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P405	Store locked up.
P501	Dispose of waste according to applicable legislation.

#### 2.3. Other hazards

This substance does not meet the criteria for classification as PBT or vPvB.  
 This substance does not have endocrine disrupting properties with respect to humans.  
 This substance does not have endocrine disrupting properties with respect to non-target organisms.

Special danger of slipping by leaking/spilling product.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

##### Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
75-11-6	Diiodomethane			100 %
	200-841-5			
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, STOT SE 3; H302 H315 H318 H335			

Full text of H and EUH statements: see section 16.

##### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
75-11-6	200-841-5	Diiodomethane	100 %
	oral: LD50 = 500,01 mg/kg		

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.  
 When in doubt or if symptoms are observed, get medical advice.

##### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of breathing difficulties administer oxygen. Call a physician immediately.

##### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin irritation, seek medical treatment.

##### After contact with eyes

Remove contact lenses. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

##### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a physician immediately.

#### 4.2. Most important symptoms and effects, both acute and delayed

irritation.  
 Following eye contact: burnes.

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gastro-intestinal ailment.  
vomiting. Nausea.  
Coughing. Dyspnoea. Pulmonary oedema

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.  
Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.  
Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. Water fog. alcohol resistant foam.

**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

In case of fire or overheating hazardous fumes may develop.  
Carbon monoxide. Carbon dioxide. hydrogen iodide. Irritating/poisonous gasses and vapours (corrosive)

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

**For emergency responders**

Remove persons to safety.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.  
In case of leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

**6.3. Methods and material for containment and cleaning up****For containment**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Use neutralizing agent. Provide adequate ventilation. Treat the recovered material as prescribed in the section on waste disposal.

**For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

**6.4. Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

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**Advice on safe handling**

Provide adequate ventilation. Avoid the formation of aerosol. Do not breathe gas/fumes/vapour/spray. Use personal protection equipment.

Do not empty into drains; dispose of this material and its container in a safe way.

**Advice on protection against fire and explosion**

Usual measures for fire prevention.

Keep away from sources of ignition - No smoking.

**Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep only in the original container in a cool, well-ventilated place.

Keep container tightly closed. Keep locked up. Provide adequate ventilation as well as local exhaustion at critical locations.

**Hints on joint storage**

Store separately from foodstuff.

Do not store together with: Alkali metals. Oxidizing agents, strong. Alkalis (alkalis). Zinc.

**Further information on storage conditions**

Recommended storage temperature: 5-25°C

Protect from sunlight. Protect against: moisture. Water. Light. Emission of air/oxygen.

**7.3. Specific end use(s)**

Laboratory chemicals

Equipment maintenance

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Additional advice on limit values**

Currently there are no further exposure limits available.

**8.2. Exposure controls****Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Provide protection equipment (eye wash bottles, etc.).

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Eye glasses with side protection

Wear additional facial protection if facial contact with this substance is possible through splashing, spraying or material in the air.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

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Tested protective gloves are to be worn:

Suitable material:

FKM (fluororubber).

Thickness of glove material: >0,4 mm

Butyl rubber.

Thickness of glove material: >0,5 mm

penetration time (maximum wearing period): > 480 min;

Unsuitable material: Natural fibres (e.g. cotton) NR (Natural rubber (Caoutchouc), Natural latex). leather. NBR (Nitrile rubber). PVC (Polyvinyl chloride).

#### Skin protection

Use of protective clothing. Chemical resistant suit. Apron.

Chemical resistant safety shoes.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection. Respiratory protection necessary at: aerosol or mist formation

short-term

Filtering device (full mask or mouthpiece) with filter: A (Colour: brown; Initial boiling point and boiling range: > 65 °C)

long-term:

Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 133).

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	colourless
Odour:	characteristic
Melting point/freezing point:	5-8 °C
Boiling point or initial boiling point and boiling range:	(15 hPa) 67-69 °C
Flammability:	no data available
Lower explosion limits:	no data available
Upper explosion limits:	no data available
Flash point:	110 °C
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
pH-Value:	no data available
Viscosity / kinematic:	no data available
Water solubility:	no data available
Solubility in other solvents	no data available
no data available	
Dissolution rate:	no data available
Partition coefficient n-octanol/water:	3,176
Dispersion stability:	no data available
Vapour pressure:	no data available
Vapour pressure:	no data available
Density:	no data available
Relative density:	no data available
Bulk density:	no data available
Relative vapour density:	no data available
Particle characteristics:	no data available

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**9.2. Other information****Information with regard to physical hazard classes**

Explosive properties

not Explosive.

Sustaining combustion:

No data available

Self-ignition temperature

Solid:

no data available

Gas:

no data available

Oxidizing properties

no data available

**Other safety characteristics**

Evaporation rate:

no data available

Solid content:

no data available

Sublimation point:

no data available

Softening point:

no data available

Pour point:

no data available

Viscosity / dynamic:

no data available

Flow time:

no data available

**Further Information**

no data available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No dangerous reactivity under regular conditions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

Moisture-sensitive. Sensitivity to light (photosensitive). Reacts with : Air.

**10.3. Possibility of hazardous reactions**

Violent reaction with: Alkali metals. Explosion hazard.

Reaction with: Alkalis (alkalis). Zinc. Oxidizing agents, strong.

**10.4. Conditions to avoid**

UV-radiation/sunlight. moisture. Water. Light. Emission of air/oxygen.

**10.5. Incompatible materials**

Alkali metals. Oxidizing agents, strong. Alkalis (alkalis). Zinc.

**10.6. Hazardous decomposition products**

Gases/vapours, toxic

Gases/vapours, corrosive

Gases/vapours, flammable

In case of fire or overheating hazardous fumes may develop.

Carbon monoxide. Carbon dioxide. hydrogen iodide. Irritating/poisonous gasses and vapours (corrosive)

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Harmful if swallowed.

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
75-11-6	Diiodomethane				
	oral	LD50 mg/kg	500,01		

#### Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

#### STOT-single exposure

May cause respiratory irritation. (Diiodomethane)

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Based on available data, the classification criteria are not met.

#### 12.2. Persistence and degradability

No data available.

#### 12.3. Bioaccumulative potential

No data available.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
75-11-6	Diiodomethane	2,3

#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

#### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

#### 12.7. Other adverse effects

No data available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

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**Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No special precautions known.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**Additional information**



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Regulation (EC) No. 648/2004 [Detergents regulation]: not applicable

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable

Regulation (EC) No 2019/1021 on persistent organic pollutants: not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures (annex 1).

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

Water hazard class (D):

3 - highly hazardous to water

**Additional information**

Observe in addition any national regulations!

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 1,2,4,5,6,7,8,9,10,12,13,15,16.

Version 1,00 - 02.07.2019 - first creation

Version 1,01 - 11.03.2024 - General update

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**Abbreviations and acronyms**

Acute Tox: Acute toxicity  
Skin Irrit: Skin irritation  
Eye Dam: Eye damage  
STOT SE: Specific target organ toxicity - single exposure  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
BlmSchV (Fed.Imm.Prot.Act): Directive on the Implementation of the Federal Immission Protection Act  
CAS: Chemical Abstracts Service  
DIN: Norm of the Deutsche Institut für Normung (German Institute for Standardization)  
EC: Effective Concentration  
EG: European Community (Europäische Gemeinschaft)  
EN: European Norm  
IATA: International Air Transport Association  
IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in Bulk  
ICAO: International Civil Aviation Organization  
IMDG: International Maritime Code for Dangerous Goods  
ISO: Norm of the International Standards Organization  
CLP: Classification, Labeling, Packaging  
IUCLID: International Uniform Chemical Information Database  
LC: Lethal concentration  
LD: Lethal dose  
log Kow: Octanol/water partition coefficient  
MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from Ships  
OECD: Organisation for Economic Co-operation and Development  
PBT: Persistent, bio-cumulative, toxic  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail  
TRGS: Technische Regeln für Gefahrstoffe  
UN: United Nations  
VOC: Volatile Organic Compounds  
vPvB: very persistent and very bio-cumulative  
VwVwS: Administrative Regulation for Water Pollutants  
WGK: German Water Hazard Class  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
DNEL: Derived No Effect Level  
PNEC: Predicted No Effect Concentration  
TLV: Threshold Limiting Value  
STOT: Specific Target Organ Toxicity  
AwSV: Ordinance on Installations for Handling Substances Hazardous to Water

**Relevant H and EUH statements (number and full text)**

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

**Further Information**

The information given in this safety data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

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