

## Chemical Safety Data Sheet MSDS / SDS

**DECAMETHONIUM IODIDE**Revision Date:2026-05-31 Revision Number:1

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product identifier**

Product name : DECAMETHONIUM IODIDE  
CBnumber : CB8132356  
CAS : 1420-40-2  
EINECS Number : 215-816-4  
Synonyms : Decamethonium,DECAMETHONIUM IODIDE

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

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.  
Uses advised against : none

**Company Identification**

Company : Chemicalbook  
Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing  
Telephone : 010-86108875

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**SECTION 2: Hazards identification****GHS Label elements, including precautionary statements**

Symbol(GHS)



Signal word

Danger

**Precautionary statements**

P501 Dispose of contents/container to....  
P405 Store locked up.  
P270 Do not eat, drink or smoke when using this product.  
P264 Wash skin thoroughly after handling.

**Hazard statements**H301 Toxic if swallowed

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**SECTION 3: Composition/information on ingredients****Substance**

Product name	: DECAMETHONIUM IODIDE
Synonyms	: Decamethonium,DECAMETHONIUM IODIDE
CAS	: 1420-40-2
EC number	: 215-816-4
MF	: C16H38I2N2
MW	: 512.3

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## SECTION 4: First aid measures

### **If inhaled**

Remove person to fresh air and keep comfortable for breathing. Get medical advice/ attention if you feel unwell.

### **In case of skin contact**

Take off all contaminated clothing immediately. If on skin, rinse well with water. If skin irritation or rash occurs: Get medical advice/ attention.

### **In case of eye contact**

Rinse with plenty of water. If easy to do, remove contact lens, if worn. If eye irritation persists: Get medical advice/ attention.

### **If swallowed**

Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.

### **Most important symptoms and effects, both acute and delayed**

None known.

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## SECTION 5: Firefighting measures

### **Suitable extinguishing media**

Dry powder, Foam, Water spray, Carbon dioxide (CO<sub>2</sub>)

### **Specific hazards during fire fighting**

No information available.

### **Specific extinguishing methods**

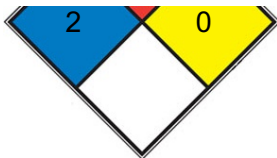
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Immediately evacuate personnel to safe areas. Remove undamaged containers from fire area if it is safe to do so.

### **Special protective equipment for fire-fighters**

Use personal protective equipment.

### **NFPA 704**





HEALTH 2 Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury (e.g. [diethyl ether](#), ammonium phosphate, iodine)

FIRE 0 Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand. Materials that will not burn in air when exposed to a temperature of 820 °C (1,500 °F) for a period of 5 minutes.(e.g. Carbon tetrachloride)

REACT 0 Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium,[N2](#))

SPEC.

HAZ.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear suitable protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

### Environmental precautions

Prevent product from entering drains.

### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust.

## SECTION 7: Handling and storage

### Handling

#### Technical measures

Prevent dispersion of dust.

#### Local/Total ventilation

Ensure adequate ventilation. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Use a local exhaust ventilation.

#### Advice on safe handling

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Wash hands and face thoroughly after handling.

#### Avoidance of contact

Oxidizing agents

### Storage

#### Conditions for safe storage

Keep container tightly closed. Store in a cool and shaded area. Store locked up.

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## SECTION 8: Exposure controls/personal protection

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

### Engineering measures

Install a closed system or local exhaust.

Also install safety shower and eye bath.

### Personal protective equipment

#### Respiratory protection

Dustproof gas mask

Self-contained breathing apparatus

#### Eye/face protection

Safety glasses

Safety goggles

Face-shield

#### Skin and body protection

Impervious protective clothing

#### Hand protection

Impervious gloves \*Use personal protective equipment(PPE) approved under appropriate government standards and follow local and national regulations.

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## SECTION 9: Physical and chemical properties

### Information on basic physicochemical properties

solid

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#### Color

white - yellow

#### Odor

No data available

#### Odor Threshold

No data available

#### pH

No data available

#### Melting point/freezing point

No data available

**Boiling point/boiling range**

No data available

**Flash point**

No data available

**Evaporation rate**

No data available

**Flammability**

No data available

**Upper explosion limit / Upper flammability limit**

No data available

**Lower explosion limit / Lower flammability limit**

No data available

**Vapor pressure**

No data available

**Solubility(ies)****Water solubility**

soluble

**Solubility in other solvents**

No data available

**Partition coefficient: n-octanol/water**

No data available

**Autoignition temperature**

No data available

**Decomposition temperature**

No data available

**Viscosity****Viscosity, dynamic**

No data available

**Viscosity, kinematic**

No data available

**Molecular weight**

512.30 g/mol

**Physical state**

powder to crystal

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

No data available

**Chemical stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Incompatible materials**

Oxidizing agents

**Hazardous decomposition products**

Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Hydrogen halides

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**SECTION 11: Toxicological information****Acute toxicity****Product****Acute oral toxicity**

Assessment: The component/mixture is toxic after single ingestion.

**Components****Decamethonium iodide****Acute oral toxicity**

LD<sub>50</sub> (Mouse): 115 mg/kg Assessment: The component/mixture is toxic after single ingestion.

**LD<sub>50</sub> (Rat)**

85 mg/kg

**Acute toxicity (other routes of administration)**

LD<sub>50</sub> (Rat): 1.55 mg/kg Application Route: Intraperitoneal injection LD<sub>50</sub> (Rabbit): 0.2 mg/kg Application Route: Intravenous

**Skin corrosion/irritation**

Classified based on available data. For more details, see section 2.

**Serious eye damage/eye irritation**

Classified based on available data. For more details, see section 2.

**Respiratory or skin sensitization**

Classified based on available data. For more details, see section 2.

**Germ cell mutagenicity**

Classified based on available data. For more details, see section 2.

**Carcinogenicity**

Classified based on available data. For more details, see section 2.

**Reproductive toxicity**

Classified based on available data. For more details, see section 2.

**STOT-single exposure**

Classified based on available data. For more details, see section 2.

**STOT-repeated exposure**

Classified based on available data. For more details, see section 2.

**Repeated dose toxicity**

Classified based on available data. For more details, see section 2.

**Aspiration toxicity**

Classified based on available data. For more details, see section 2.

**RTECS No.**

BP6300000 (Decamethonium Iodide)

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**SECTION 12: Ecological information****Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

#### **Other adverse effects**

No data available

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## SECTION 13: Disposal considerations

### **Disposal methods**

#### **Waste from residues**

Disposal in accordance with local and national regulations. Entrust disposal to a licensed waste disposal company.

#### **Contaminated packaging**

Disposal in accordance with local and national regulations. Before disposal of used container, remove contents completely.

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## SECTION 14: Transport information

### **International Regulations**

#### **IATA-DGR**

##### **UN/ID No.**

UN 2811

##### **Proper shipping name**

Toxic solid, organic, n.o.s.

##### **Class**

6.1

##### **Packing group**

III

#### **IMDG-Code**

##### **UN number**

UN 2811

##### **Proper shipping name**

TOXIC SOLID, ORGANIC, N.O.S.

##### **Class**

6.1

##### **Packing group**

III

##### **EmS Code**

F-A, S-A

### **Domestic regulation**

**GB 6944/12268**

**UN number**

UN 2811

**Proper shipping name**

TOXIC SOLID, ORGANIC, N.O.S.

**Class**

6.1

**Packing group**

III

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## SECTION 15: Regulatory information

**Measures on the Environmental Administration of New Chemical Substances Registration****Registration/Notification number**

B1A232214751

Downstream users need to comply with the conditions of safe use of the chemical, understand the environmental and health hazard and risk management measures identified on the SDS as well as the local/national regulations concerning the chemical.

**The ingredients of this product are reported in the following inventories****CH BAGREG**

On the inventory, or in compliance with the inventory

**TSCA**

Substance(s) not listed on TSCA inventory

**AICS**

Not in compliance with the inventory

**DSL**

This product contains the following components that are not on the Canadian DSL nor NDSL.

Decamethonium Iodide

**ENCS**

Not in compliance with the inventory

**ISHL**

Not in compliance with the inventory

**KECI**

Not in compliance with the inventory

**PICCS**

Not in compliance with the inventory

**IECSC**

Not in compliance with the inventory

**NZIoC**

Not in compliance with the inventory

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## SECTION 16: Other information

## Abbreviations and acronyms

CAS: Chemical Abstracts Service

TWA: Time-Weighted Average

STEL: Short-Term Exposure Limit

LD50: Lethal Dose 50%

LC50: Lethal Concentration 50%

EC50: Effective Concentration 50%

PEL: Permissible Exposure Limit

TLV: Threshold Limit Value

IMDG: International Maritime Dangerous Goods Code

IATA: International Air Transport Association

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

DOT: US Department of Transportation

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

### Disclaimer:

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.