

# **SAFETY DATA SHEET**

Creation Date 19-Feb-2008 Revision Date 23-Jul-2021 Revision Number 4

## 1. Identification

Product Name Iodoethane

Cat No. : A14444

CAS No 75-03-6 Synonyms Ethyl iodide

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

### Details of the supplier of the safety data sheet

#### Company

Alfa Aesar

Thermo Fisher Scientific Chemicals, Inc.

30 Bond Street

Ward Hill, MA 01835-8099

Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com

www.alfa.com

#### **Emergency Telephone Number**

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660.

After normal business hours, call Carechem 24 at (866) 928-0789.

# 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

- 1		
F	Flammable liquids	Category 4
1	Acute oral toxicity	Category 4
1	Skin Corrosion/Irritation	Category 2
ķ	Serious Eye Damage/Eye Irritation	Category 2
F	Respiratory Sensitization	Category 1
ķ	Skin Sensitization	Category 1
k	Germ Cell Mutagenicity	Category 2
1	Specific target organ toxicity (single exposure)	Category 3
þ	Гarget Organs - Respiratory system.	

### Label Elements

lodoethane Revision Date 23-Jul-2021

#### Signal Word

Danger

#### **Hazard Statements**

Combustible liquid

Harmful if swallowed

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause respiratory irritation

Suspected of causing genetic defects



### **Precautionary Statements**

#### Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

In case of inadequate ventilation wear respiratory protection

Contaminated work clothing should not be allowed out of the workplace

Use only outdoors or in a well-ventilated area

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

Keep cool

Wear protective gloves/protective clothing/eye protection/face protection

### Response

IF exposed or concerned: Get medical attention/advice

### Inhalation

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

#### Skin

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

#### Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

### **Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### Disposal

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

None identified

Iodoethane Revision Date 23-Jul-2021

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %		
Ethyl iodide	75-03-6	>95		

### 4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and

effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain,

muscle pain or flushing Treat symptomatically

Notes to Physician

# 5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may

be used to cool closed containers.

Unsuitable Extinguishing Media No information available

**Flash Point** 61 °C / 141.8 °F

Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

# **Specific Hazards Arising from the Chemical**

Vapors may travel to source of ignition and flash back. Vapors may form explosive mixture with air. Keep product and empty container away from heat and sources of ignition. Risk of ignition. Combustible material. Containers may explode when heated.

### **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO2). Hydrogen iodide.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Iodoethane Revision Date 23-Jul-2021

HealthFlammabilityInstabilityPhysical hazards220N/A

### 6. Accidental release measures

Personal Precautions Use personal protective equipment as required. Ensure adequate ventilation. Remove all

sources of ignition. Take precautionary measures against static discharges.

**Environmental Precautions** Should not be released into the environment.

Methods for Containment and Clean Keep in suitable, closed containers for disposal. Soak up with inert absorbent material.

**Up** Remove all sources of ignition.

7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not

get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open

flames, hot surfaces and sources of ignition.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

heat, sparks and flame. Protect from direct sunlight.

### 8. Exposure controls / personal protection

**Exposure Guidelines** 

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location.

Personal Protective Equipment

**Eye/face Protection** Tight sealing safety goggles. Face protection shield.

**Skin and body protection**Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical StateLiquidAppearanceLight yellowOdorSlight ethereal

Odor Threshold

pH

No information available

No information available

Melting Point/Range -108 °C / -162.4 °F

**Boiling Point/Range** 69 - 73 °C / 156.2 - 163.4 °F @ 760 mmHg **Flash Point** 61 °C / 141.8 °F

Evaporation Rate No information available

Flammability (solid,gas)
Not applicable
Flammability or explosive limits

**Upper** No data available

Iodoethane Revision Date 23-Jul-2021

 Lower
 No data available

 Vapor Pressure
 133 mbar @ 18 °C

 Vapor Density
 5.4 (Air = 1.0)

 Specific Gravity
 1.950

SolubilitySoluble in waterPartition coefficient; n-octanol/waterNo data availableAutoignition TemperatureNo information availableDecomposition TemperatureNo information available

Viscosity 0.592 cp at 20°C

Molecular FormulaC2 H5 IMolecular Weight155.97

### 10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions. Moisture sensitive. Light sensitive.

Conditions to Avoid Incompatible products. Excess heat. Keep away from open flames, hot surfaces and

sources of ignition. Exposure to moist air or water. Protect from light.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen iodide

Hazardous Polymerization Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

# 11. Toxicological information

#### **Acute Toxicity**

### **Product Information**

**Component Information** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Ethyl iodide	330 mg/kg ( Rat )	Not listed	65 mg/L (0.5h) ( Rat )		

**Toxicologically Synergistic** 

**Products** 

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes, respiratory system and skin

**Sensitization** May cause sensitization by inhalation and skin contact

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component CAS No		IARC	NTP	ACGIH	OSHA	Mexico	
Ethyl iodide	75-03-6	Not listed					

Mutagenic Effects Animal experiments showed mutagenic effects in cultured bacterial cells

Reproductive Effects

No information available.

Developmental Effects

No information available.

Teratogenicity

No information available.

**STOT - single exposure**STOT - repeated exposure
Respiratory system
None known

Aspiration hazard No information available

Revision Date 23-Jul-2021 **lodoethane** 

delaved

Symptoms / effects.both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and yomiting: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling

of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

# 12. Ecological information

#### **Ecotoxicity**

Do not empty into drains.

Persistence and Degradability Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** No information available.

Will likely be mobile in the environment due to its volatility. **Mobility** 

Component	log Pow
Ethyl iodide	2

# 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# Transport information

DOT

COMBUSTIBLE LIQUID, NOT REGULATED FOR TRANSPORT IN THIS QUANTITY According to 49 CRF §173.150(f)(1), this material should reclassified as NA1993, Combustible Liquid, NOS if it is shipped in bulk.

**UN-No** NA1993

Combustible liquid, n.o.s. **Proper Shipping Name** 

**Packing Group** 

Not regulated **TDG** Not regulated IATA **IMDG/IMO** Not regulated

# 15. Regulatory information

### **United States of America Inventory**

Component	CAS No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags	
Ethyl iodide	75-03-6	X	ACTIVE	-	

#### Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

### **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Revision Date 23-Jul-2021 **lodoethane** 

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Ethyl iodide	75-03-6	Х	-	200-833-1	Х	Х	Х	Х	Х	KE-21037

#### U.S. Federal Regulations

**SARA 313** 

See section 2 for more information SARA 311/312 Hazard Categories

**CWA (Clean Water Act)** 

Clean Air Act Not applicable **OSHA** - Occupational Safety and

Health Administration

Not applicable

**CERCLA** This material, as supplied, contains one or more substances regulated as a hazardous

substance under the Comprehensive Environmental Response Compensation and Liability

Act (CERCLA) (40 CFR 302)

**California Proposition 65** This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know

Regulations

**U.S. Department of Transportation** 

Reportable Quantity (RQ): N **DOT Marine Pollutant** Ν **DOT Severe Marine Pollutant** Ν

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

**Mexico - Grade** Moderate risk, Grade 2

### 16. Other information

Health, Safety and Environmental Department Prepared By

Email: tech@alfa.com

www.alfa.com

**Creation Date** 19-Feb-2008 23-Jul-2021 **Revision Date Print Date** 23-Jul-2021

**Revision Summary** SDS authoring systems update, replaces ChemGes SDS No. 75-03-6.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of SDS**