

# SAFETY DATA SHEET

Creation Date 03-December-2014 Revision Date 16-March-2018 Revision Number 1

1. Identification

Product Name Indium(III) bromide, anhydrous

Cat No.: 40126

**CAS-No** 13465-09-3

Synonyms No information available

**Recommended Use** Laboratory chemicals.

Uses advised against Not for 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

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 (800) 579-7421.

# 2. Hazard(s) identification

### Classification

WHMIS 2015 Classification Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

Skin Corrosion/irritationCategory 2Serious Eye Damage/Eye IrritationCategory 2Specific target organ toxicity (single exposure)Category 3

Target Organs - Respiratory system.

### **Label Elements**

## Signal Word

Warning

### **Hazard Statements**

Causes skin irritation Causes serious eye irritation May cause respiratory irritation



## **Precautionary Statements**

### Prevention

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

Wash face, hands and any exposed skin thoroughly after handling

Use only outdoors or in a well-ventilated area

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

#### Response

IF ON SKIN: Wash with plenty of soap and water

IF INHALED: Remove person to fresh air and keep comfortable for breathing

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Call a POISON CENTER/ doctor if you feel unwell

Take off contaminated clothing

#### Storage

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

Store locked up

### **Disposal**

Dispose of contents/container to an approved waste disposal plant

# 3. Composition/Information on Ingredients

	Component	CAS-No	Weight %
Г	Indium bromide (InBr3)	13465-09-3	>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** Move 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. Get medical attention if

symptoms occur.

delicate tissue and danger of perforation

Notes to Physician Treat symptomatically

## 5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

## **Autoignition Temperature**

**Explosion Limits** 

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

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

### **Hazardous Combustion Products**

Hydrogen halides

## **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

HealthFlammabilityInstabilityPhysical hazards311N/A

### 6. Accidental release measures

Personal Precautions
Environmental Precautions

Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation.

Should not be released into the environment.

**Methods for Containment and Clean** Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in **Up** suitable, closed containers for disposal.

## 7. Handling and storage

Handling

Storage

Wear personal protective equipment. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation. Avoid ingestion and inhalation.

Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

### 8. Exposure controls / personal protection

## **Exposure Guidelines**

Component	Alberta	British Columbia	Ontario TWAEV	Quebec	ACGIH TLV	OSHA PEL	NIOSH IDLH
Indium bromide (InBr3)	TWA: 0.1 mg/m <sup>3</sup>	(Vacated) TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>				

#### Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

#### **Engineering Measures**

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

## Personal protective equipment

**Eye Protection** Goggles

Hand Protection Protective gloves

Glove material	Breakthrough time	Glove thickness	Glove comments
Natural rubber	See manufacturers	-	Splash protection only
Nitrile rubber	recommendations		
Neoprene			
PVC			

Inspect gloves before use, observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, gloves with care avoiding skin contamination.

### **Respiratory Protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly Recommended Filter type: Particulates filter conforming to EN 143

When RPE is used a face piece Fit Test should be conducted

#### **Environmental exposure controls**

No information available.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

## 9. Physical and chemical properties

No information available

**Physical State** Powder Solid **Appearance** Off-white

No information available Odor No information available **Odor Threshold** No information available Ha

Melting Point/Range 220 °C / 428 °F

**Boiling Point/Range** 656 °C / 1212.8 °F @ 760 mmHg

Flash Point No information available

**Evaporation Rate** Not applicable

Flammability (solid, gas)

Flammability or explosive limits

No data available Upper No data available Lower **Vapor Pressure** No information available

Not applicable **Vapor Density** 

No information available **Specific Gravity** Solubility No information available No data available

Partition coefficient; n-octanol/water

**Autoignition Temperature** 

**Decomposition Temperature** No information available

**Viscosity** Not applicable Molecular Formula Br3 In

354.52 Molecular Weight

## 10. Stability and reactivity

**Reactive Hazard** None known, based on information available

Hygroscopic. Stability

### Indium(III) bromide, anhydrous

Avoid dust formation. Incompatible products. Excess heat. Exposure to moist air or water. **Conditions to Avoid** 

**Incompatible Materials** Strong oxidizing agents

Hazardous Decomposition Products Hydrogen halides

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

## 11. Toxicological information

**Acute Toxicity** 

**Product Information** 

No acute toxicity information is available for this product

**Component Information** 

**Toxicologically Synergistic** 

No information available

**Products** 

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

Irritation Irritating to eyes, respiratory system and skin

Sensitization No information available

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

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Indium bromide (InBr3)	13465-09-3	Not listed				

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

No information available. **Developmental Effects** 

**Teratogenicity** No information available.

STOT - single exposure Respiratory system

STOT - repeated exposure None known

**Aspiration hazard** No information available

delayed

Symptoms / effects,both acute and Ingestion causes severe swelling, severe damage to the delicate tissue and danger of

perforation

**Endocrine Disruptor Information** No information available

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

No information available.

## 12. Ecological information

**Ecotoxicity** 

Do not empty into drains.

**Bioaccumulation/ Accumulation** 

Persistence and Degradability No information available

No information available. **Mobility** 

## 13. Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a **Waste Disposal Methods** 

hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information					
DOT TDG IATA	Not regulated				
TDG	Not regulated				
<u>IATA</u>	Not regulated				
IMDG/IMO	Not regulated				
15. Regulatory information					

All of the components in the product are on the following Inventory lists: X = listed

#### International Inventories

Component	DSL	NDSL	TSCA	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Indium bromide (InBr3)	-	Х	Х	236-692-8	-		-	-	-	-	Х

#### Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

	16. Other information	
Prepared By	Product Safety Department Email: tech@alfa.com www.alfa.com	
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Revision Summary Mise à jour des systèmes de création SDS, remplace ChemGes SDS No. 13465-09-3/2.

#### **Disclaimer**

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## **End of SDS**