

MATERIAL SAFETY DATA SHEET

Chemical Product

Product Name: INDIUM TRICHLORIDE

CAS#: 10025-82-8

Synonym: Not Available.

Chemical Name: Indium Trichloride

Chemical Formula: Cl_3In

Composition and Information on Ingredients

Name	S.K.U	% by Weight
INDIUM TRICHLORIDE	GCS-7532	100

Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute toxicity,
Oral (Category
4), H302 Skin
corrosion
(Category 1B),
H314

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

C Corrosive R22, R34

Label elements

Labelling according Regulation (EC)
No 1272/2008 Hazard statement(s)
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

P280 Wear protective gloves/ protective clothing/ 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 or doctor/ physician.

Supplemental Hazard Statements: None

Other hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative or toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

First Aid Measures

Description of first aid measures:

General advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact:

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed: No data available.

Fire and Explosion Data

Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture:

Hydrogen chloride gas, Indium/indium oxides

Advice for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

Further information: No data available

Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning up:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Handling and Storage

Precautions for safe handling:

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Moisture sensitive. Storage class (TRGS 510): Non-combustible, corrosive hazardous materials

Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Exposure Controls/Personal Protection

Control parameters

Components with workplace
control parameters Exposure
controls

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
Wash and dry hands.

Body Protection: Complete suit protecting against chemicals, the type of protective

equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full- face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Do not let product enter drains.

Physical and Chemical Properties

Appearance Form	: Powder.
Odour	: No data available.
Odour Threshold	: No data available.
pH	: No data available.
Molecular Weight	: 221.18 g/mole.
Melting point	: No data available.
Boiling range	: No data available.
Flash point	: Not applicable.
Evaporation rate	: No data available.
Flammability (solid, gas) :	
No data available.	
Explosive limits	: No data available.
Vapour pressure	: No data available.
Vapour density	: No data available.
Relative density	: 3,46 g/cm ³ at 25 °C
Water solubility	:
No data available.	
Partition coefficient: noctanol/water:	
No data available.	
Auto-ignition temperature	:
No data available.	
Decomposition temperature	: No data available.
Viscosity	: No data available.
Explosive properties	: No data available.
Oxidizing properties	: No data available.

Stability and Reactivity Data

Reactivity: No data available.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No data available.

Conditions to avoid: No data available.

Incompatible materials: Strong acids, Strong oxidizing agents.

Hazardous decomposition products

Other decomposition products - No data available.

In the event of fire: see section 5

Toxicological Information

Information on toxicological effects

Acute toxicity: LD50 Oral - Rat - 1.100 mg/kg.

Skin corrosion/irritation: No data available.

Serious eye damage/eye irritation:

No data available. Respiratory or

skin sensitization: No data

available. Germ cell mutagenicity:

No data available.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: No data available.

Specific target organ toxicity - single exposure: No data available.

Specific target organ toxicity - repeated exposure: No data available.

Aspiration hazard: No data available

Toxicological Data on Ingredients: Not available.

Ecological Information

Toxicity: No data available

Persistence and degradability:

No data available

Bioaccumulative potential:

No data available

Mobility in soil:

No data available

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects: No data available

Disposal Considerations

Waste treatment methods

Product:

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

Transformation Information

Land transport (ADR-RID)

Proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Indium trichloride)

UN N°: 3260

H.I. nr: -

ADR - Class: -

Labelling - Transport: 8 ADR - Group: II

Sea transport (IMDG) [English only]

Proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Indium trichloride)

UN N°: 3260

IMO-IMDG - Class or division: 8

IMO-IMDG - Packing group: II

Air transport (ICAO-IATA) [English only]

Proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Indium trichloride)

UN N°: 3260
IATA - Class or division: 8
IATA - Packing group: II

Other Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Safety, health and environmental regulations/legislation specific for the substance or mixture: No data available

Chemical Safety Assessment: For this product a chemical safety assessment was not carried out.



Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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