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**INTATRADE** MATERIAL SAFETY DATA SHEET according to 1907/2006/EC, Article 31

## 1. IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY

Product name: Indium (III) chloride, tetrahydrate

Product code: EO00922

**INTATRADE Chemicals GmbH** Company:

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#### 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to GHS05 corrosion

Regulation (EC) No 1272/2008 Skin Corr. 1B H314 Causes severe skin burns and eye damage.

GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Classification according to C: Corrosive Directive 67/548/EEC R34: Causes burns.

or Directive 1999/45/EC Xn: Harmful

R22: Harmful if swallowed.

Information concerning particular hazards for human

and environment: Not applicable Label elements

Hazard pictograms

Signal word

Labelling according to The substance is classified and labelled according to the CLP

Regulation (EC) No 1272/2008 regulation.

GHS05

**Danger** 

Hazard statements H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately

all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce

vomiting.

P405 Store locked up.

P501 Dispose of contents/container in accordance with

local/regional/national/international regulations.

Results of PBT and vPvB assessment Other hazards

> PBT: Not applicable. vPvB: Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No.: 10025-82-8 EC-No.: 233-043-0

### 4. FIRST AID MEASURES

After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient

warm. Consult doctor if symptoms persist.

Seek immediate medical advice.

After skin contact Instantly wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

After eye contact Rinse opened eye for several minutes under running water. Then

consult doctor.

After swallowing Seek medical treatment.

Most important symptoms and effects, No further relevant information available.

both acute and delayed Indication of any immediate

medical attention and

special treatment needed No further relevant information available.

### 5. FIREFIGHTING MEASURES

Suitable extinguishing agents CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet

or alcohol-resistant foam.

Special hazards arising from

the substance or mixture

If this product is involved in a fire, the following can be released:

Hydrogen chloride (HCI)

Metal oxide

Advice for firefighters Protective equipment: Wear self-contained breathing apparatus.

Wear full protective suit.

#### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions,

protective equipment Wear protective equipment. Keep unprotected persons away.

Environmental precautions: Do not allow material to be released to the environment without proper

governmental permits. Use neutralizing agent.

Methods and material for containment and cleaning up:

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections See 7 for information on safe handling

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

#### 7. HANDLING AND STORAGE

Precautions for safe handling Handle under dry protective gas.

Keep containers tightly sealed.

Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.

Information about protection

against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by

storerooms and containers: No special requirements.

Further information about storage conditions:

Store under dry mert gas. This product is hygroscopic. Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers. Protect from humidity and keep away from water.

Store in a locked cabinet or with access restricted to technical experts

or their assistants.

Specific end use(s) No further relevant information available.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about Properly operating chemical fume hood designed for hazardous design of technical systems: chemicals and having an average face velocity of at least 100 feet per

Control parameters Components with critical values that require monitoring at the

workplace:

Indium(III) chloride anhydrous (100.0%)

WEL () Short-term value: 0.3 mg/m<sup>3</sup>

> Long-term value: 0 .1 mg/m<sup>3</sup>

as In

Additional information: No data

Personal protective equipment Exposure controls

General protective and The usual precautionary measures should be adhered to in handling

hygienic measures the chemicals.

Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Maintain an ergonomically appropriate working environment.

Breathing equipment: Use breathing protection with high concentrations.

Protection of hands: Check protective gloves prior to each use for their proper condition.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from

manufacturer to manufacturer.

Material of gloves Impervious gloves Penetration time of glove material Not determined Eye protection: Safety glasses

Tightly sealed safety glasses.

Face protection Full face protection

Body protection: Protective work clothing.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: Various forms (powder/flake/crystalline, etc.)

Colour:

Smell: Not determined Odour threshold: Not determined. pH-value: Not applicable.

Change in condition

Melting point/Melting range: 586°C Boiling point/Boiling range: 800°C Sublimation temperature / start: 300°C

Inflammability (solid, gaseous) Not determined. Ignition temperature: Not determined Decomposition temperature: Not determined Self-inflammability: Not determined.

Critical values for explosion:

Not determined Lower:

Steam pressure:

Density at 20°C

Relative density

Vapour density

Evaporation rate

Not applicable.

Not applicable.

Not applicable.

Solubility in / Miscibility with

Water at 20°C: 67 g/l

Segregation coefficient

(n-octanol/water): Not determined.

Viscosity:

dynamic: Not applicable. kinematic: Not applicable.

Other information No further relevant information available.

### 10. STABILITY AND REACTIVITY

Reactivity Chemical stability

Thermal decomposition /

conditions to be avoided: No decomposition if used and stored according to specifications.

Possibility of hazardous reactions 

No dangerous reactions known

Incompatible materials: Acids

Water/moisture

Hazardous decomposition products: Hydrogen chloride (HCI)

Metal oxide

### 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

Primary irritant effect:

on the skin: Corrosive effect on skin and mucous membranes.

on the eye: Strong corrosive effect.
Sensitization: No sensitizing effect known.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this

substance is not fully known.

Swallowing will lead to a strong caustic effect on mouth and throat and

to the danger of perforation of esophagus and stomach.

No classification data on carcinogenic properties of this material is

available from the EPA, IARC, NTP, OSHA or ACGIH.

The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute and/or other multiple dose toxicity data for components

in this product.

The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive and/or mutation data for components in this

product.

### 12. ECOLOGICAL INFORMATION

**Toxicity** 

Aquatic toxicity:

Persistence and degradability

Bioaccumulative potential

Mobility in soil

No further relevant information available.

Additional ecological information:

General notes: Do not allow material to be released to the environment without proper

governmental permits.

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

### 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation Hand over to disposers of hazardous waste.

> Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

Recommended cleaning agent: Water, if necessary with cleaning agent.

#### 14. TRANSPORT INFORMATION

**UN-Number** ADR, IMDG, IATA UN3260

UN proper shipping name

ADR 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

(Indium(III) chloride anhydrous)

CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. IMDG. IATA

(Indium(III) chloride anhydrous)

Transport hazard class(es)

**ADR** Class 8 (C2) Corrosive substances.

Label 8

Class 8 Corrosive substances. IMDG, IATA

Label 8

Packing group

ADR, IMDG, IATA

Environmental hazards: Marine pollutant: No

Special precautions for user Warning: Corrosive substances.

Kemler Number: F-A.S-B **EMS Number:** Acids Segregation groups

Transport in bulk according to Annex II of MARPOL73/78

and the IBC Code Not applicable.

Transport/Additional information:

**ADR** Limited quantities (LQ) 1 kg

> Transport category 2 Tunnel restriction code Ε

**UN "Model Regulation":** UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

(Indium(III)chloride anhydrous), 8, II

#### 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Labelling according to The substance is classified and labelled according to the CLP

Regulation (EC) No 1272/2008 regulation. Hazard pictograms **GHS05 GHS07** Signal word Danger

Hazard statements H302 Harmful if swallowed.

> H314 Causes severe skin burns and eye damage. P260 Do not breathe dust/fume/gas/mist/vapours/spray.

Precautionary statements P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately

all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce

vomiting.

P405 Store locked up.

P501 Dispose of contents/container in accordance with

National regulations

Information about limitation of use: Employment restrictions concerning young persons must be observed.

For use only by technically qualified individuals.

Other regulations, limitations and prohibitive regulations

REACH - Pre-registered substances Substance is listed.

Substances of very high concern (SVHC) according to REACH,

Article 57 Substance is not listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **16. OTHER INFORMATION**

# Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Intatrade Chemicals GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.