1. Identification of the substance / mixture and of the company / undertaking

1.1 Product identifier

Product name: Indium
CAS-No.: 7440-74-6
EC-No.: 231-180-0

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

Identified use: Laboratory chemical

1.3 Details of the supplier of the safety data sheet

Company: NETZSCH-Gerätebau GmbH
Wittelsbacherstraße 42
95100 Selb / Germany

Customer service Phone: +49 9287 881-555

1.4 Emergency Phone: +49 9287 881-174 (during office hours)

Fax: +49 9287 881-505
E-mail Address: service@ngb.netzsch.com

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Void

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Void

Hazard pictograms:

Signalword: Void

Hazard statements: Void
Precautionary statements: Void
Additional information: -

2.3 Other hazards

All chemicals are potentially dangerous. They are therefore only be handled by specially trained personnel with the necessary care.

Results of PBT- und vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.
3. Composition / information on ingredients

3.1 Chemical characterization:

Substances

CAS-No. Description: 7440-74-6 indium

Identification number(s):
EC number: 231-180-0
Formula: In
Molar mass [g/mol]: 114.82

4. First aid measures

4.1 Description of first aid measures

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

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

After skin contact: Wash off with soap and plenty of water. Consult a physician.

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

After swallowing: Rinse out mouth and drink a glass of water. Do not induce vomiting. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. Fire-Fighting measures

5.1 Extinguishing agents

Suitable extinguishing agents: Special powder for metal fires. Do not use water. Dry sand

For safety reasons unsuitable extinguishing agents: Water Foam

5.2 Special hazards arising from the substance or mixture

In the event of fire development of hazardous combustion gases or vapours possible.

In case of fire, the following can be released:

5.3 Advice for firefighters


Additional information: -
6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid formation of dust.

6.2 Environmental precautions
Do not allow to enter sewers / ground water or penetrate the soil.

6.3 Methods and material for containment and cleaning up
Pick up mechanically. Dispose of the material collected according to regulations.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace. Handling corresponding to laboratory safety guidelines.

Information about fire and explosion protection:
No special measures required.

7.2 Conditions for safe storage, including any incompatibilities
Requirements for safe storage, including any incompatibilities: No special requirements.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions: Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -

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

8. Exposure controls / personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace: Not required.

Additional information: The lists valid during the making were used as basis.
8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures: Do not eat, drink, smoke or sniff while working. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Individual protection measures: Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Respiratory protection: Required when dusts are generated: filter P1.

Protection of hands: Protective gloves: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Material: Nitrile

Eye protection: Tightly sealed goggles

Body protection: Protective work clothing
9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td></td>
</tr>
<tr>
<td>Form:</td>
<td>Solid</td>
</tr>
<tr>
<td>Colour:</td>
<td>metallic</td>
</tr>
<tr>
<td>Odour:</td>
<td>Odourless</td>
</tr>
<tr>
<td>Odour threshold:</td>
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</tr>
<tr>
<td>pH-value:</td>
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<tr>
<td>Change in condition</td>
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</tr>
<tr>
<td>Melting point / Melting range:</td>
<td>156.61°C</td>
</tr>
<tr>
<td>Boiling point / Boiling range:</td>
<td>2080°C</td>
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<tr>
<td>Flash point:</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability (solid, gaseous):</td>
<td>Product is not flammable.</td>
</tr>
<tr>
<td>Ignition temperature:</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>No information available</td>
</tr>
<tr>
<td>Self-igniting:</td>
<td>No information available</td>
</tr>
<tr>
<td>Danger of explosion:</td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td>Explosion limits</td>
<td></td>
</tr>
<tr>
<td>Lower:</td>
<td>No information available</td>
</tr>
<tr>
<td>Upper:</td>
<td>No information available</td>
</tr>
<tr>
<td>Oxidizing properties:</td>
<td>No information available</td>
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<tr>
<td>Vapour pressure at 20°C:</td>
<td>0 hPa</td>
</tr>
<tr>
<td>Density at 20°C:</td>
<td>7.31 g/cm³</td>
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<tr>
<td>Relative density:</td>
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<tr>
<td>Vapour density:</td>
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<tr>
<td>Evaporation rate:</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility in / Miscibility with water:</td>
<td>Not miscible or difficult to mix.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol / water):</td>
<td>No information available</td>
</tr>
<tr>
<td>Viskosity</td>
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<tr>
<td>Dynamic:</td>
<td>No information available</td>
</tr>
<tr>
<td>Kinematic:</td>
<td>No information available</td>
</tr>
</tbody>
</table>

9.2 Other information

No further relevant information available.
10. Stability and reactivity

10.1 Reactivity
No information available.

10.2 Chemical stability
Thermal decomposition / conditions to be avoided:
No information available.

10.3 Possibility of hazardous reactions
No information available.

10.4 Conditions to avoid
No further relevant information available.

10.5 Incompatible materials
Mercury compounds
Sulphur

10.6 Hazardous decomposition products
No information available.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD / LC50 values relevant for classification: Quantitative data on the toxicity of this product are not available.

Potential health effects
Skin: No irritation
Eyes: No irritation
Inhalation: Only intense contact with dusts may lead to adverse health effects
Ingestion No information available
Sensitization: No sensitizing effects known.

CMR effects
Germ cell mutagenicity: No information available
Carcinogenicity: No information available
Reproductive toxicity: No information available

Aspiration hazard:
No information available.

Specific target organ toxicity – single exposure:
The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity – repeated exposure:
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
**Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

**Further information:**
The product should be handled with the usual care as necessary for chemicals.

**12. Ecological information**

**12.1 Toxicity**

**Aquatic toxicity**
Quantitative data on the ecological effect of this product are not available.

**12.2 Persistence and degradability**
Persistence: No further relevant information available.
Degradability: No further relevant information available.

**12.3 Bioaccumulative potential**
No further relevant information available.

**12.4 Mobility in soil**
No further relevant information available.

**Ecotoxicological effects**
Remark: -

**12.5 Results of PBT and vPvB assessment**
PBT: Not applicable.
vPvB: Not applicable.

**12.6 Other adverse effects**
No further relevant information available.

**13. Disposal considerations**

**13.1 Waste treatment methods**
Recommendation: Dispose of residual amounts and non-reusable solutions in accordance with local legal regulations. Waste code must be classified as hazardous.

**Uncleaned packaging**
Recommendation: Disposal same as for unused product.
14. Transport information

<table>
<thead>
<tr>
<th></th>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1 UN-Number</td>
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<td>14.2 UN proper shipping name</td>
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<tr>
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<td>danger symbol:</td>
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<tr>
<td>14.5 Environmental hazards:</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

14.6 Special precautions for user
Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
The cargo is not intended to be carried in bulk.

15. Regulatory information

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

National regulations:
Information about limitation of use: Employment restrictions concerning juveniles must be observed.
Waterhazard class: Generally not hazardous for water

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

16. Other Information

 Guarantee
This information has been compiled to the best of our knowledge; however, we make no claim as to its completeness and it is meant to serve only as a guideline. NETZSCH-Gerätebau GmbH disclaims any liability for damages which may occur in handling or in contact with these chemicals.

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