



The National Institute for Occupational Safety and Health (NIOSH)



Indium

SYNONYMS & TRADE NAMES

Indium metal

CAS NO.

7440-74-6

RTECS NO.

NL1050000

DOT ID & GUIDE

FORMULA

In

CONVERSION

IDLH

N.D.

See: [IDLH INDEX](#)

EXPOSURE LIMITS

NIOSH REL

TWA 0.1 mg/m³ [*Note: The REL also applies to other indium compounds (as In).]

OSHA PEL

none See [Appendix G](#)

MEASUREMENT METHODS

NIOSH P&CAM173 (II-5) , 7303;

OSHA ID121

See: [NMAM](#) or [OSHA Methods](#)

PHYSICAL DESCRIPTION

Ductile, shiny, silver-white metal that is softer than lead.

MOLECULAR WEIGHT

114.8

BOILING POINT

3767°F

MELTING POINT

314°F

SOLUBILITY

Insoluble

VAPOR PRESSURE

0 mmHg (approx)

IONIZATION POTENTIAL

NA

SPECIFIC GRAVITY

7.31

FLASH POINT

NA

UPPER EXPLOSIVE LIMIT

NA

LOWER EXPLOSIVE LIMIT

NA

Noncombustible Solid in bulk form, but may ignite in powdered or dust form.

INCOMPATIBILITIES & REACTIVITIES

(Dinitrogen tetroxide + acetonitrile), mercury(II) bromide (at 662°F), sulfur (mixtures ignite when heated) [Note: oxidizes readily at higher temperatures.]

EXPOSURE ROUTES

inhalation, ingestion, skin and/or eye contact

SYMPTOMS

irritation eyes, skin, respiratory system; possible liver, kidney, heart, blood effects; pulmonary edema

TARGET ORGANS

Eyes, skin, respiratory system, liver, kidneys, heart, blood

PERSONAL PROTECTION/SANITATION

(See protection codes)

Skin:No recommendation

Eyes:No recommendation

Wash skin:No recommendation

Remove:No recommendation

Change:No recommendation

FIRST AID

(See procedures)

Eye:Irrigate immediately

Skin:Soap wash

Breathing:Respiratory support

Swallow:Medical attention immediately

RESPIRATOR RECOMMENDATIONS

Not available.

[Important additional information about respirator selection](#)

SEE ALSO

[INTRODUCTION ICSC CARD: 1293](#)

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Yes Partly No