

Nickel iodide (Nil2) (cas 13462-90-3) MSDS

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Product name	:	Nickel(II) iodide
Product Number Brand CAS-No.	:	466301 Anonymous 13462-90-3

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

Identified uses

: Laboratory chemicals, Manufacture of substances

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] Carcinogenicity, Inhalation (Category 1A) Germ cell mutagenicity (Category 2) Reproductive toxicity (Category 1B) Specific target organ toxicity - repeated exposure (Category 1) Respiratory sensitization (Category 1) Skin sensitization (Category 1) Acute aquatic toxicity (Category 1) Chronic aquatic toxicity (Category 1)

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

May cause cancer. May cause harm to the unborn child. May cause sensitization by inhalation and skin contact.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]
Pictogram

Signal word	Danger			
Hazard statement(s) H317 H334 H341 H350i H360D H372 H410	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing genetic defects. May cause cancer by inhalation. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.			
Precautionary statement(s) P201 P261 P273 P280 P308 + P313 P501	Obtain special instructions before use. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Avoid release to the environment. Wear protective gloves. IF exposed or concerned: Get medical advice/ attention. Dispose of contents/ container to an approved waste disposal plant.			
Supplemental Hazard Statements	none			
Restricted to professional users.				
According to European Directive 67/548/EEC as amended. Hazard symbol(s)				
R-phrase(s) R45 R61	May cause cancer. May cause harm to the unborn child.			

May cause harm to the unborn child. May cause sensitization by inhalation and skin contact.

S-phrase(s) S53 S22

R42/43

Avoid exposure - obtain special instructions before use. Do not breathe dust. S26

S36/37/39 S45 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Restricted to professional users.

2.3 Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	: I2Ni	
Molecular Weight	: 312,50 g/mol	
Component		Concentration
Nickel(II) iodide		
CÁS-No.	13462-90-3	-
EC-No.	236-666-6	

4. FIRST AID MEASURES

4.1 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

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Prolonged exposure to iodides may produce iodism in sensitive individuals. Symptoms of exposure include: skin rash, running nose, headache and irritation of the mucous membrane. For severe cases the skin may show pimples, boils, hives, blisters and black and blue spots. lodides are readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goiter have been reported. lodides have been known to cause drug-induced fevers, which are usually of short duration., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture Nickel/nickel oxides
- 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

- 5.4 Further information
 - no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 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.

6.4 Reference to other sections For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use.

Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end uses no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

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).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: black	
b)	Odour	no data available	
c)	Odour Threshold	no data available	
d)	рН	no data available	
e)	Melting point/freezing point	Melting point/range: 797 °C - lit.	
f)	Initial boiling point and boiling range	no data available	
g)	Flash point	not applicable	
h)	Evaporation rate	no data available	
i)	Flammability (solid, gas) no data available		

j) Upper/lower no data available flammability or

		explosive limits		
	k)	Vapour pressure	no data available	
	I)	Vapour density	no data available	
	m)	Relative density	5,83 g/cm3 at 25 °C	
	n)	Water solubility	no data available	
	o)	Partition coefficient: n- octanol/water	no data available	
	p)	Autoignition temperature	no data available	
	q)	Decomposition temperature	no data available	
	r)	Viscosity	no data available	
	s)	Explosive properties	no data available	
	t)	Oxidizing properties	no data available	
9.2		ner safety information data available		
10.	ST	ABILITY AND REACTIVIT	ſΥ	
10.1		activity data available		
10.2	Chemical stability no data available			
10.3		ssibility of hazardous re a data available	actions	
10.4	Conditions to avoid Heat.			
10.5	Incompatible materials Strong acids			
10.6	Hazardous decomposition products Other decomposition products - no data available			
11.	то	XICOLOGICAL INFORMA	ATION	
11.1	Infe	ormation on toxicologica	l effects	
		ute toxicity data available		
		in corrosion/irritation data available		
	Serious eye damage/eye irritation no data available			
	Respiratory or skin sensitization May cause allergic skin reaction.			
	Germ cell mutagenicity no data available			
	Carcinogenicity			
	Possible human carcinogen			
	IARC: 1 - Group 1: Carcinogenic to humans (Nickel(II) iodide)			
	Reproductive toxicity Presumed human reproductive toxicant			
	Specific target organ toxicity - single exposure no data available			
	-	ecific target organ toxici data available	ty - repeated exposure	
	٨c	niration hazard		

Aspiration hazard no data available

Potential health effects

Inhalation Ingestion

May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if swallowed.

Skin	
Eyes	

May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation.

Signs and Symptoms of Exposure

Prolonged exposure to iodides may produce iodism in sensitive individuals. Symptoms of exposure include: skin rash, running nose, headache and irritation of the mucous membrane. For severe cases the skin may show pimples, boils, hives, blisters and black and blue spots. lodides are readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goiter have been reported. lodides have been known to cause drug-induced fevers, which are usually of short duration., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS: Not available

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity no data available
- 12.2 Persistence and degradability no data available
- **12.3 Bioaccumulative potential** no data available
- 12.4 Mobility in soil no data available
- 12.5 Results of PBT and vPvB assessment no data available
- **12.6** Other adverse effects no data available

13. DISPOSAL CONSIDERATIONS

13.1 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.

14. TRANSPORT INFORMATION

14.1	UN numb ADR/RID: 3		IMDG: 3260	IATA: 3260
14.2	UN proper shipping nameADR/RID:CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Nickel(II) iodide)IMDG:CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Nickel(II) iodide)IATA:Corrosive solid, acidic, inorganic, n.o.s. (Nickel(II) iodide)			., ,
14.3	Transport ADR/RID: 8	hazard class(es) 3	IMDG: 8	IATA: 8
14.4	Packaging ADR/RID: I		IMDG: II	IATA: II
14.5	Environm ADR/RID: I	ental hazards no	IMDG Marine pollutant: no	IATA: no

14.6 Special precautions for user no data available

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture no data available
- 15.2 Chemical Safety Assessment no data available

16. OTHER INFORMATION

Further information

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 this document is based on the resent 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. guidechem shall not be

held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.