

<a href="#">Nickel Iodide Hexahydrate</a>		<a href="#">Pricing &gt;</a>
Linear Formula	NiI <sub>2</sub> • 6H <sub>2</sub> O	
Pubchem CID	90476433	
MDL Number	MFCD00150266	
EC No.	236-666-6	
IUPAC Name	diiodonickel; hexahydrate	
Beilstein/Reaxys No.	N/A	
SMILES	O.O.O.O.O.O.[Ni](I)I	
Inchl Identifier	InChI=1S/2HI.Ni.6H2O/h2*1H;;6*1H2/q;;+2;;;;;;/p-2	
Inchl Key	IBSOYFJDSVROOT-UHFFFAOYSA-L	
Signal Word	Danger	
Hazard Statements	H317-H334-H341-H350i-H360D-H372-H410	
Hazard Codes	T	
Risk Codes	45-61-42/43	
Safety Statements	53-22-26-36/37/39-45	
RTECS Number	N/A	
Transport Information	UN 3260 8/PG 2	
WGK Germany	3	

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## SAFETY DATA SHEET

Date Accessed: 04/23/2024

Date Revised: 01/15/2022

### SECTION 1. IDENTIFICATION

**Product Identifiers:** All applicable American Elements product codes for CAS #7790-34-3

**Relevant identified uses of the substance:**  
Scientific research and development

Supplier details:  
American Elements

10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351

Emergency telephone number:  
Domestic, North America +1 800-424-9300  
International +1 703-527-3887

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## **SECTION 2. HAZARDS IDENTIFICATION**

Classification of the substance or mixture

The substance is not classified according to the  
Globally Harmonized System (GHS).

GHS label elements

not applicable

Hazard pictograms

not applicable

Signal word

not applicable

Hazard statements

not applicable

Precautionary statements

P262

Do not get in eyes, on skin, or on clothing.

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.

P304+P340

IF INHALED: Remove person to fresh air and keep  
comfortable for breathing.

P403+P233

Store in a well-ventilated place. Keep container tightly  
closed.

P501

Dispose of contents/container in accordance with  
local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = \*0

Fire = 0

Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT:

N/A

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### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substances

CAS # / Substance Name

7790-34-3 Nickel(II) iodide hydrate / hexahydrate

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### **SECTION 4. FIRST AID MEASURES**

Description of first aid measures

General information:

No special measures required.

If inhaled:

Supply fresh air; consult doctor in case of complaints.

In case of skin contact:

Immediately rinse with water.

In case of eye contact:

Rinse opened eye for several minutes under running water. Consult a physician.

If swallowed:

If symptoms persist consult doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed

No data available

Indication of any immediate medical attention and special treatment needed

No data available

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### **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media

Suitable extinguishing agents:

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

No data available

Advice for firefighters

Protective equipment:

No special measures required.

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

Personal precautions, protective equipment and emergency procedures

Not required.

Environmental precautions:

No special measures required.  
Methods and materials for containment and cleanup:  
Dispose contaminated material as waste according to item 13.  
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.

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## **SECTION 7. HANDLING AND STORAGE**

Handling:  
Precautions for safe handling  
No special measures required.  
Information about protection against explosions and fires:  
No special measures required.  
Conditions for safe storage, including any incompatibilities:  
Requirements to be met by storerooms and receptacles:  
No special requirements.  
Information about storage in one common storage facility:  
Not required.  
Further information about storage conditions:  
None.  
Specific end use(s)  
No data available

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Additional information about design of technical systems:  
No further data; see item 7.  
Control parameters  
Components with limit values that require monitoring at the workplace:  
Not required.  
Additional information:  
The lists that were valid during the creation were used as basis.  
Exposure controls  
Personal protective equipment:  
General protective and hygienic measures:  
The usual precautionary measures for handling chemicals should be followed.  
Breathing equipment:  
Not required.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

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.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Safety glasses

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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

Appearance:

Form: Crystalline

Color: Green

Odor: Odorless

Odor threshold: No data available.

pH:

N/A

Melting point/Melting range: no data °C

Boiling point/Boiling range:

no data °C

Flash point: N/A

Flammability (solid, gas):

Product is not flammable

Ignition temperature:

Decomposition temperature: No data available.

Autoignition: No data available.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: No data available.

Upper: No data available.

Vapor pressure: not appli hPa

Density: No data available.

Relative density

No data available.

Vapor density

N/A

Evaporation rate  
N/A  
Solubility in Water (H<sub>2</sub>O): Insoluble.  
Partition coefficient (n-octanol/water): No data available.  
Viscosity:  
Dynamic: N/A  
Kinematic: N/A  
Solvent content:  
Organic solvents: 0.0 %  
VOC content: 0.0 g/l / 0.00 lb/gl  
Solids content: 100.0 %  
Other information  
No data available

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## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity  
No data available  
Chemical stability  
Thermal decomposition / conditions to be avoided:  
No decomposition if used according to specifications.  
Possibility of hazardous reactions  
No dangerous reactions known.  
Conditions to avoid  
No data available  
Incompatible materials:  
No data available  
Hazardous decomposition products:  
No dangerous decomposition products known.

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## **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on toxicological effects  
Acute toxicity:  
Primary irritant effect:  
on the skin:  
No irritant effect.  
on the eye:  
No irritating effect.  
Sensitization:  
No sensitizing effects known.  
Additional toxicological information:  
When used and handled according to specifications,  
the product does not have any harmful effects  
according to  
our experience and the information provided to us.  
The substance is not subject to classification.  
Carcinogenic categories  
IARC (International Agency for Research on Cancer)

Substance is not listed.  
NTP (National Toxicology Program)  
Substance is not listed.  
OSHA-Ca (Occupational Safety & Health  
Administration)  
Substance is not listed.

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## **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity  
Aquatic toxicity:  
No data available  
Persistence and degradability  
No data available  
Behavior in environmental systems:  
Bioaccumulative potential  
No data available  
Mobility in soil  
No data available  
Additional ecological information:  
Not known to be hazardous to water.  
Results of PBT and vPvB assessment  
PBT:  
N/A  
vPvB:  
N/A  
Other adverse effects  
No data available

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods  
Recommendation:  
Disposal must be made according to official  
regulations.  
Uncleaned packagings:  
Recommendation:  
Disposal must be made according to official  
regulations.

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## **SECTION 14. TRANSPORT INFORMATION**

UN-Number  
DOT, ADN, IMDG, IATA  
not regulated  
UN proper shipping name  
DOT, ADN, IMDG, IATA  
not regulated  
Transport hazard class(es)

DOT, ADN, IMDG, IATA  
Class  
not regulated  
Packing group  
DOT, IMDG, IATA  
not regulated  
Environmental hazards:  
Marine pollutant:  
No  
Special precautions for user  
N/A  
Transport in bulk according to Annex II of  
MARPOL73/78 and the IBC Code  
N/A  
UN "Model Regulation":  
not regulated

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## **SECTION 15. REGULATORY INFORMATION**

Safety, health and environmental  
regulations/legislation specific for the substance or  
mixture  
Sara  
Section 355 (extremely hazardous substances):  
Substance is not listed.  
Section 313 (Specific toxic chemical listings):  
Substance is not listed.  
TSCA (Toxic Substances Control Act):  
Substance is not listed.  
Proposition 65  
Chemicals known to cause cancer:  
Substance is not listed.  
Chemicals known to cause reproductive toxicity for  
females:  
Substance is not listed.  
Chemicals known to cause reproductive toxicity for  
males:  
Substance is not listed.  
Chemicals known to cause developmental toxicity:  
Substance is not listed.  
Carcinogenic categories  
EPA (Environmental Protection Agency)  
Substance is not listed.  
TLV (Threshold Limit Value established by ACGIH)  
Substance is not listed.  
NIOSH-Ca (National Institute for Occupational Safety  
and Health)  
Substance is not listed.  
GHS label elements  
not applicable  
Hazard pictograms  
not applicable



Signal word  
not applicable  
Hazard statements  
not applicable  
Precautionary statements  
P262  
Do not get in eyes, on skin, or on clothing.  
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.  
P304+P340  
IF INHALED: Remove person to fresh air and keep  
comfortable for breathing.  
P403+P233  
Store in a well-ventilated place. Keep container tightly  
closed.  
P501  
Dispose of contents/container in accordance with  
local/regional/national/international regulations.  
Chemical safety assessment:  
A Chemical Safety Assessment has not been carried  
out.

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## 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). 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. American Elements 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. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.

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