

Safety Data Sheet



Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

- Product Name** • Sodium Iodide/Thallium/Lithium crystal
- Synonyms** • Na(1-x-y)LixTlyI; NaI/L

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

- Relevant identified use(s)** • Radiation detection, neutron detection, gamma ray detection, charged particle detection

1.3 Details of the supplier of the safety data sheet

- Manufacturer** • Saint-Gobain Crystals and Detectors
17900 Great Lakes Parkway
Hiram, OH 44234-9681
United States
www.crystals.saint-gobain.com
- Telephone (General)** • 440-834-5600

1.4 Emergency telephone number

- Manufacturer** • 1-800-424-9300 - ChemTrec
- Manufacturer** • 703-525-3887 - ChemTrec Outside U.S.

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

2.1 Classification of the substance or mixture

- CLP**
- Skin Irritation 2 - H315
 - Skin Sensitization 1 - H317
 - Eye Irritation 2 - H319
 - Respiratory Sensitization 1 - H334
 - Reproductive Toxicity 1A - H360
 - Specific Target Organ Toxicity Repeated Exposure 1 - H372

2.2 Label Elements

CLP

DANGER



- Hazard statements** • H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
 H360 - May damage fertility or the unborn child
 H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

- Prevention** • P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P260 - Do not breathe dust.
 P264 - Wash thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 P272 - Contaminated work clothing should not be allowed out of the workplace.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P284 - In case of inadequate ventilation wear respiratory protection.
- Response** • P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor/ .
 P302+P352 - IF ON SKIN: Wash with plenty of water.
 P362+P364 - Take off contaminated clothing and wash it before reuse.
 P321 - Specific treatment, see supplemental first aid information.
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 - If eye irritation persists: Get medical advice/attention.
 P308+P313 - IF exposed or concerned: Get medical advice/attention.
 P314 - Get medical advice/attention if you feel unwell.
- Storage/Disposal** • P405 - Store locked up.
 P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other Hazards

- CLP** • According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

- OSHA HCS 2012** • Skin Irritation 2
 Skin Sensitization 1
 Eye Irritation 2
 Respiratory Sensitization 1
 Reproductive Toxicity 1A
 Specific Target Organ Toxicity Repeated Exposure 1

2.2 Label elements

OSHA HCS 2012

DANGER



- Hazard statements** • Causes skin irritation
 May cause an allergic skin reaction

Causes serious eye irritation
 May cause allergy or asthma symptoms or breathing difficulties if inhaled
 May damage fertility or the unborn child.
 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

- Prevention** • Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Do not breathe dust.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection.
 In case of inadequate ventilation wear respiratory protection.
- Response** • IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
 If on skin: Wash with plenty of water.
 Take off contaminated clothing and wash before reuse.
 Specific treatment, see supplemental first aid information.
 If skin irritation or rash occurs: Get medical advice/attention.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists: Get medical advice/attention.
 IF exposed or concerned: Get medical advice/attention.
 Get medical advice/attention if you feel unwell.
- Storage/Disposal** • Store locked up.
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to: WHMIS 2015

2.1 Classification of the substance or mixture

WHMIS 2015

- Skin Irritation 2
 Skin Sensitization 1
 Eye Irritation 2
 Respiratory Sensitization 1
 Reproductive Toxicity 1A
 Specific Target Organ Toxicity Repeated Exposure 1

2.2 Label elements

WHMIS 2015

DANGER



- Hazard statements** • Causes skin irritation
 May cause an allergic skin reaction
 Causes serious eye irritation
 May cause allergy or asthma symptoms or breathing difficulties if inhaled
 May damage fertility or the unborn child.
 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

- Prevention** • Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
In case of inadequate ventilation wear respiratory protection.
- Response** • IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Call a POISON CENTER/doctor/ .
IF ON SKIN: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
Specific treatment, see supplemental first aid information.
If skin irritation or rash occurs: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF exposed or concerned: Get medical advice/attention.
- Storage/Disposal** • Store locked up.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

WHMIS 2015

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance.

3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Sodium iodide	CAS:7681-82-5 EC Number:231-679-3	97% TO 100%	Ingestion/Oral-Rat LD50 • 4340 mg/kg	EU CLP: Skin Irrit. 2, H315; Eye Irrit. 2, H319; Repr. 1A, H360 OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2; Repr. 1A WHMIS 2015: Skin Irrit. 2; Eye Irrit. 2; Repr. 1A	NDA
Lithium iodide	CAS:10377-51-2 EINECS:233-822-5	< 2%	NDA	EU CLP: Not Classified OSHA HCS 2012: Not Classified WHMIS 2015: Not Classified	NDA
Thallium iodide	CAS:7790-30-9 EINECS:232-199-7	< 1%	Ingestion/Oral-Rat LD50 • 24100 µg/kg	EU CLP: Acute Tox. 2*, H330; Acute Tox. 2*, H300; STOT RE 2*, H372; Aquatic Chronic 2, H411 OSHA HCS 2012: Acute Tox. 2 (orl); STOT RE 1 (Liver, Kidney, Nervous System, Gastrointestinal System, Endocrine System) WHMIS 2015: Acute Tox. 2 (orl); STOT RE 1 (Liver, Kidney, Nervous System, Gastrointestinal System, Endocrine System)	NDA

See Section 16 for full text of H-statements.

Section 4 - First Aid Measures

4.1 Description of first aid measures

- | | |
|-------------------|---|
| Inhalation | <ul style="list-style-type: none"> • Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention. |
| Skin | <ul style="list-style-type: none"> • In case of contact with substance, immediately flush skin with running water for at least 20 minutes. If irritation develops and persists, get medical attention. |
| Eye | <ul style="list-style-type: none"> • In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention. |
| Ingestion | <ul style="list-style-type: none"> • If large quantities are swallowed, call a physician immediately. |

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

- | | |
|---------------------------|--|
| Notes to Physician | <ul style="list-style-type: none"> • All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. |
|---------------------------|--|

Section 5 - Firefighting Measures

5.1 Extinguishing media

- | | |
|---------------------------------------|--|
| Suitable Extinguishing Media | <ul style="list-style-type: none"> • LARGE FIRE: Water spray, fog or regular foam. • SMALL FIRES: Dry chemical, CO₂, water spray or regular foam. |
| Unsuitable Extinguishing Media | <ul style="list-style-type: none"> • No data available |

5.2 Special hazards arising from the substance or mixture

- | | |
|---|---|
| Unusual Fire and Explosion Hazards | <ul style="list-style-type: none"> • No data available |
| Hazardous Combustion Products | <ul style="list-style-type: none"> • No data available |

5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

- | | |
|-----------------------------|--|
| Personal Precautions | <ul style="list-style-type: none"> • Ventilate the area. Do not walk through spilled material. Take proper precautions to minimize exposure by using appropriate personal protective equipment. |
| Emergency Procedures | <ul style="list-style-type: none"> • Keep unauthorized personnel away. Stay upwind. |

6.2 Environmental precautions

- Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

- | | |
|--------------------------------------|---|
| Containment/Clean-up Measures | <ul style="list-style-type: none"> • Avoid generating dust. • Sweep, shovel or vacuum up spilled material and place in appropriate container. |
|--------------------------------------|---|

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal

Considerations.

Section 7 - Handling and Storage**7.1 Precautions for safe handling****Handling**

- Use good safety and industrial hygiene practices. Use only with adequate ventilation. Wear appropriate protective equipment including respiratory protection as conditions warrant. Avoid dust inhalation and contact with skin and eyes. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities**Storage**

- Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection**8.1 Control parameters**

Exposure Limits/Guidelines						
	Result	ACGIH	Canada Manitoba	Canada Nova Scotia	Canada Ontario	Poland
Thallium iodide	TWAs	0.02 mg/m ³ TWA (inhalable particulate matter, as TI) <i>as Thallium compounds</i>	0.02 mg/m ³ TWA (inhalable particulate matter, as TI) <i>as Thallium compounds</i>	0.02 mg/m ³ TWA (inhalable particulate matter, as TI) <i>as Thallium compounds</i>	0.02 mg/m ³ TWA (inhalable, as TI) <i>as Thallium compounds</i>	0.1 mg/m ³ TWA [NDS] (as TI) <i>as Thallium compounds</i>
	STELs	Not established	Not established	Not established	Not established	0.3 mg/m ³ STEL [NDSCh] (as TI) <i>as Thallium compounds</i>

Exposure Control Notations**ACGIH**

- Thallium iodide as Thallium compounds: **Skin:** (Skin - potential significant contribution to overall exposure by the cutaneous route)

Exposure Limits Supplemental**ACGIH**

- Thallium iodide as Thallium compounds: **TLV Basis - Critical Effects:** (gastrointestinal damage; peripheral neuropathy)

8.2 Exposure controls**Engineering Measures/Controls**

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment**Respiratory**

- In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

- Wear protective eyewear (goggles, face shield, or safety glasses).

Skin/Body

- Wear appropriate gloves.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

STEL = Short Term Exposure Limits are based on 15-minute exposures

TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties**9.1 Information on Basic Physical and Chemical Properties**

Material Description			
Physical Form	Solid	Appearance/Description	Clear transparent solid.
Color	Clear	Odor	Data lacking
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	Data lacking	Water Solubility	Data lacking
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	Data lacking	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity**10.1 Reactivity**

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- No data available

10.5 Incompatible materials

- No data available

10.6 Hazardous decomposition products

- No data available

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
Sodium iodide (97% TO 100%)	7681-82-5	Acute Toxicity: Ingestion/Oral-Rat LD50 • 4340 mg/kg; Irritation: Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation; Reproductive: Ingestion/Oral-Woman TDLo • 9240 mg/kg (1-43W preg); <i>Reproductive Effects:Specific Developmental Abnormalities:Endocrine system; Reproductive Effects:Effects on Newborn:Other postnatal measures or effects</i>
Thallium iodide (< 1%)	7790-30-9	Acute Toxicity: Ingestion/Oral-Rat LD50 • 24100 µg/kg

GHS Properties	Classification
Acute toxicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
Skin corrosion/Irritation	EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2 WHMIS 2015 • Skin Irritation 2
Serious eye damage/Irritation	EU/CLP • Eye Irritation 2 OSHA HCS 2012 • Eye Irritation 2 WHMIS 2015 • Eye Irritation 2
Skin sensitization	EU/CLP • Skin Sensitizer 1 OSHA HCS 2012 • Skin Sensitizer 1 WHMIS 2015 • Skin Sensitizer 1
Respiratory sensitization	EU/CLP • Respiratory Sensitizer 1 OSHA HCS 2012 • Respiratory Sensitizer 1 WHMIS 2015 • Respiratory Sensitizer 1
Aspiration Hazard	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
Carcinogenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
Germ Cell Mutagenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
Toxicity for Reproduction	EU/CLP • Toxic to Reproduction 1A OSHA HCS 2012 • Toxic to Reproduction 1A WHMIS 2015 • Toxic to Reproduction 1A
STOT-SE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
STOT-RE	EU/CLP • Specific Target Organ Toxicity Repeated Exposure 1 OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1 WHMIS 2015 • Specific Target Organ Toxicity Repeated Exposure 1

Potential Health Effects**Inhalation**

- Acute (Immediate)**
 - Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.
- Chronic (Delayed)**
 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin

- Acute (Immediate)**
 - Causes skin irritation. May cause skin sensitization. Symptoms include redness, and skin rash.
- Chronic (Delayed)**
 - No data available

Eye

- Acute (Immediate)**
 - Causes serious eye irritation.
- Chronic (Delayed)**
 - No data available

Ingestion

- Acute (Immediate)**
 - Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.
- Chronic (Delayed)**
 - No data available

Other

- Chronic (Delayed)**
 - Repeated or prolonged exposure may effect the thyroid.

Reproductive Effects

- The occasional use of iodides for asthma in pregnancy has resulted in fetal death, severe goiter and cretinoid appearance of the newborn. Exposure to Sodium iodide during pregnancy may affect the thyroid function of the newborn.

Key to abbreviations

LD = Lethal Dose

TD = Toxic Dose

Section 12 - Ecological Information**12.1 Toxicity**

- Material data lacking.

12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations**13.1 Waste treatment methods**

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
TDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IMO/IMDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IATA/ICAO	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA

14.6 Special precautions for user

- None specified.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

- Data lacking.

Section 15 - Regulatory Information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****SARA Hazard Classifications** • Acute, Chronic

State Right To Know		
Component	CAS	PA
Lithium iodide	10377-51-2	No
Sodium iodide	7681-82-5	No
Thallium iodide	7790-30-9	No

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Lithium iodide	10377-51-2	Yes	No	Yes	Yes	No
Sodium iodide	7681-82-5	Yes	No	Yes	Yes	No
Thallium iodide	7790-30-9	No	Yes	Yes	Yes	No

Inventory (Con't.)			
Component	CAS	Korea KECL	TSCA
Lithium iodide	10377-51-2	Yes	Yes
Sodium iodide	7681-82-5	Yes	Yes
Thallium iodide	7790-30-9	Yes	Yes

Canada**Labor****Canada - WHMIS 1988 - Classifications of Substances**

- | | | |
|------------------|------------|----------------------|
| • Sodium iodide | 7681-82-5 | D2A |
| | | Uncontrolled product |
| • Lithium iodide | 10377-51-2 | according to WHMIS |

		classification criteria
• Thallium iodide	7790-30-9	Not Listed
Canada - WHMIS 1988 - Ingredient Disclosure List		
• Sodium iodide	7681-82-5	1 %
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	1 %

Environment**Canada - CEPA - Priority Substances List**

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

China**Environment****China - Ozone Depleting Substances - First Schedule**

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

China - Ozone Depleting Substances - Second Schedule

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

China - Ozone Depleting Substances - Third Schedule

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

Other**China - Annex I & II - Controlled Chemicals Lists**

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

China - Dangerous Goods List

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

Germany**Labor****Germany - Immission Control - Qualifying Quantities for Major Accident Prevention**

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

Germany - Immission Control - Qualifying Quantities for Safety Reporting

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

Germany - TRGS 505 - Specific Lead Regulations

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

Environment**Germany - TA Luft - Types and Classes**

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

Germany - TA Luft - Emission Limits for Carcinogenic Substances

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

Germany - TA Luft - Emission Limits for Fibers

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Dusts

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Gases

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

Germany - TA Luft - Emission Limits for Organic Substances

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

Germany - Water Classification (VwVwS) - Annex 1

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• Sodium iodide	7681-82-5	ID Number 138, hazard class 1 - low hazard to waters
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

Germany - Water Classification (VwVwS) - Annex 3

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	ID Number 7386, hazard class 1 - low hazard to waters
• Thallium iodide	7790-30-9	Not Listed

United States

Labor**U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

Environment**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

United States - California**Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

United States - Pennsylvania**Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

• Sodium iodide	7681-82-5	Not Listed
• Lithium iodide	10377-51-2	Not Listed
• Thallium iodide	7790-30-9	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information**Relevant Phrases (code & full text)**

- H300 - Fatal if swallowed
- H330 - Fatal if inhaled
- H411 - Toxic to aquatic life with long lasting effects

Revision Date

- 14/August/2017

Preparation Date

- 14/August/2017

Disclaimer/Statement of Liability

- Reasonable care has been taken in the preparation of this information, but the supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation

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Key to abbreviations

NDA = No Data Available