



# Iodine

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Version: 1.3

### SECTION 1: Identification

#### 1.1. Identification

|                |                  |
|----------------|------------------|
| Product form   | : Substance      |
| Substance name | : Iodine         |
| CAS-No.        | : 7553-56-2      |
| Product code   | : 1.2200         |
| Formula        | : I <sub>2</sub> |

#### 1.2. Recommended use and restrictions on use

|                              |                                              |
|------------------------------|----------------------------------------------|
| Use of the substance/mixture | : For laboratory and manufacturing use only. |
| Recommended use              | : Laboratory chemicals                       |
| Restrictions on use          | : Not for food, drug or household use        |

#### 1.3. Supplier

NEUTRON PHARMACHEMICAL CO  
98, 9th Floor, Borjsaz Building, Azadi Ave, Tehran, Iran.  
T 021-66906732-3 - F 021-66581408  
[info@neutronpharmachemical.com](mailto:info@neutronpharmachemical.com) -  
[www.neutronpharmachemical.com](http://www.neutronpharmachemical.com)

#### 1.4. Emergency telephone number

|                  |                 |
|------------------|-----------------|
| Emergency number | : CHEMTREC: 125 |
|------------------|-----------------|

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

|                                                                |      |                                         |
|----------------------------------------------------------------|------|-----------------------------------------|
| Acute toxicity (dermal) Category 3                             | H311 | Toxic in contact with skin              |
| Acute toxicity (inhalation) Category 4                         | H332 | Harmful if inhaled                      |
| Skin corrosion/irritation Category 1C                          | H314 | Causes severe skin burns and eye damage |
| Serious eye damage/eye irritation Category 1                   | H318 | Causes serious eye damage               |
| Skin sensitization, category 1B                                | H317 | May cause an allergic skin reaction     |
| Hazardous to the aquatic environment - Acute Hazard Category 1 | H400 | Very toxic to aquatic life              |

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

: H311 - Toxic in contact with skin  
H314 - Causes severe skin burns and eye damage  
H317 - May cause an allergic skin reaction  
H332 - Harmful if inhaled  
H400 - Very toxic to aquatic life

Precautionary statements (GHS-US)

: P260 - Do not breathe dust, vapors  
P264 - Wash exposed skin thoroughly after handling  
P271 - Use only outdoors or in a well-ventilated area  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P273 - Avoid release to the environment

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P280 - Wear protective gloves, protective clothing, eye protection, face protection  
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a poison center or doctor/physician  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
P363 - Wash contaminated clothing before reuse  
P391 - Collect spillage  
P405 - Store locked up  
P501 - Dispose of contents/container to comply with local, state and federal regulations  
If inhaled: Remove person to fresh air and keep comfortable for breathing

### 2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : None.

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Substance type : Mono-constituent

| Name                         | Product identifier  | %   | GHS-US classification                                                                                                                                     |
|------------------------------|---------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Iodine<br>(Main constituent) | (CAS-No.) 7553-56-2 | 100 | Acute Tox. 3 (Dermal), H311<br>Acute Tox. 4 (Inhalation), H332<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1B, H317<br>Aquatic Acute 1, H400 |

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).  
First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.  
First-aid measures after skin contact : Immediately call a poison center or doctor/physician. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Rinse skin with water/shower.  
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.  
First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : Causes severe skin burns and eye damage.  
Symptoms/effects after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.  
Symptoms/effects after eye contact : Causes serious eye damage.  
Symptoms/effects after ingestion : Gastrointestinal complaints.  
Chronic symptoms : Gastrointestinal complaints. Possible inflammation of the respiratory tract.

### 4.3. Immediate medical attention and special treatment, if necessary

Obtain medical assistance.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
Unsuitable extinguishing media : Do not use a heavy water stream.

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### 5.2. Specific hazards arising from the chemical

|                  |                                                       |
|------------------|-------------------------------------------------------|
| Fire hazard      | : Not flammable.                                      |
| Explosion hazard | : Not applicable.                                     |
| Reactivity       | : Thermal decomposition generates : Corrosive vapors. |

### 5.3. Special protective equipment and precautions for fire-fighters

|                                |                                                                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection.                                                                   |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

|                  |                                                                        |
|------------------|------------------------------------------------------------------------|
| General measures | : Use chemically protective clothing. Ensure adequate air ventilation. |
|------------------|------------------------------------------------------------------------|

#### 6.1.1. For non-emergency personnel

|                      |                                                |
|----------------------|------------------------------------------------|
| Protective equipment | : Safety glasses. Protective clothing. Gloves. |
| Emergency procedures | : Evacuate unnecessary personnel.              |

#### 6.1.2. For emergency responders

|                      |                                              |
|----------------------|----------------------------------------------|
| Protective equipment | : Equip cleanup crew with proper protection. |
| Emergency procedures | : Ventilate area.                            |

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

|                         |                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------|
| Methods for cleaning up | : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. |
|-------------------------|--------------------------------------------------------------------------------------------------------------------|

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                               |                                                                                                                                                                                                                              |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe dust, vapors. |
| Hygiene measures              | : Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.                                                                                                                                      |

### 7.2. Conditions for safe storage, including any incompatibilities

|                        |                                                                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical measures     | : Comply with applicable regulations.                                                                                                                              |
| Storage conditions     | : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, incompatible materials. Keep container closed when not in use. |
| Incompatible products  | : Strong bases. Ammonia. Strong oxidizers. Acetaldehyde.                                                                                                           |
| Incompatible materials | : Sources of ignition. Direct sunlight.                                                                                                                            |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Iodine (7553-56-2) |                             |                              |
|--------------------|-----------------------------|------------------------------|
| ACGIH              | ACGIH TWA (mg/m³)           | 0.1 mg/m³ Inhalable fraction |
| ACGIH              | ACGIH TWA (ppm)             | 0.01 ppm Inhalable fraction  |
| ACGIH              | ACGIH STEL (mg/m³)          | 1 mg/m³                      |
| ACGIH              | ACGIH STEL (ppm)            | 0.1 ppm                      |
| OSHA               | OSHA PEL (Ceiling) (mg/m³)  | 1 mg/m³                      |
| OSHA               | OSHA PEL (Ceiling) (ppm)    | 0.1 ppm                      |
| IDLH               | US IDLH (ppm)               | 2 ppm                        |
| NIOSH              | NIOSH REL (ceiling) (mg/m³) | 1 mg/m³                      |
| NIOSH              | NIOSH REL (ceiling) (ppm)   | 0.1 ppm                      |

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### 8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Chemical resistant apron. Face shield. Gas mask. Gloves. Protective clothing. Safety glasses.



#### Hand protection:

Wear protective gloves

#### Eye protection:

Chemical goggles or face shield

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Gas mask

#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                             |                                                    |
|---------------------------------------------|----------------------------------------------------|
| Physical state                              | : Solid                                            |
| Appearance                                  | : Flakes. Needles.                                 |
| Color                                       | : Purple Black                                     |
| Odor                                        | : Pungent characteristic                           |
| Odor threshold                              | : No data available                                |
| pH                                          | : 5.1 saturated solution                           |
| Melting point                               | : 113 °C                                           |
| Freezing point                              | : No data available                                |
| Boiling point                               | : 184 °C                                           |
| Flash point                                 | : Not applicable                                   |
| Relative evaporation rate (butyl acetate=1) | : No data available                                |
| Flammability (solid, gas)                   | : Non flammable.                                   |
| Vapor pressure                              | : 0.41 hPa 25°C                                    |
| Relative vapor density at 20 °C             | : 8.8                                              |
| Relative density                            | : No data available                                |
| Specific gravity / density                  | : 4.93 g/cm <sup>3</sup>                           |
| Molecular mass                              | : 253.81 g/mol                                     |
| Solubility                                  | : Insoluble in water. Soluble in iodide solutions. |
| Log Pow                                     | : 2.49                                             |
| Auto-ignition temperature                   | : Not applicable                                   |
| Decomposition temperature                   | : No data available                                |
| Viscosity                                   | : 2.27 mPa.s 116°C                                 |
| Viscosity, kinematic                        | : Not applicable                                   |
| Viscosity, dynamic                          | : Not applicable                                   |

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|                      |                     |
|----------------------|---------------------|
| Explosion limits     | : No data available |
| Explosive properties | : Not applicable.   |
| Oxidizing properties | : None.             |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapors.

### 10.2. Chemical stability

May sublime.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Ammonia. Strong oxidizers. aluminum. Aldehydes.

### 10.6. Hazardous decomposition products

Thermal decomposition generates : Iodine vapor.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                           |                                                                       |
|---------------------------|-----------------------------------------------------------------------|
| Likely routes of exposure | : Inhalation; Skin and eye contact                                    |
| Acute toxicity            | : Dermal: Toxic in contact with skin. Inhalation: Harmful if inhaled. |

| Iodine (7553-56-2)  |                         |
|---------------------|-------------------------|
| LD50 oral rat       | 14000 mg/kg             |
| ATE US (oral)       | 14000 mg/kg body weight |
| ATE US (dermal)     | 220 mg/kg body weight   |
| ATE US (dust, mist) | 1.5 mg/l/4h             |

|                                                     |                                                                                                                                           |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Skin corrosion/irritation                           | : Causes severe skin burns and eye damage.<br>pH: 5.1 saturated solution                                                                  |
| Serious eye damage/irritation                       | : Causes serious eye damage.<br>pH: 5.1 saturated solution                                                                                |
| Respiratory or skin sensitization                   | : May cause an allergic skin reaction.                                                                                                    |
| Germ cell mutagenicity                              | : Not classified<br>Based on available data, the classification criteria are not met                                                      |
| Carcinogenicity                                     | : Not classified                                                                                                                          |
| Reproductive toxicity                               | : Not classified<br>Based on available data, the classification criteria are not met                                                      |
| Specific target organ toxicity – single exposure    | : Not classified                                                                                                                          |
| Specific target organ toxicity – repeated exposure  | : Not classified                                                                                                                          |
| Aspiration hazard                                   | : Not classified                                                                                                                          |
| Potential Adverse human health effects and symptoms | : Toxic in contact with skin.                                                                                                             |
| Symptoms/effects after skin contact                 | : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin. |
| Symptoms/effects after eye contact                  | : Causes serious eye damage.                                                                                                              |
| Symptoms/effects after ingestion                    | : Gastrointestinal complaints.                                                                                                            |
| Chronic symptoms                                    | : Gastrointestinal complaints. Possible inflammation of the respiratory tract.                                                            |

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - water : Very toxic to aquatic life.

| Iodine (7553-56-2) |          |
|--------------------|----------|
| LC50 fish 1        | 1.7 mg/l |
| EC50 Daphnia 1     | 0.2 mg/l |

#### 12.2. Persistence and degradability

| Iodine (7553-56-2)            |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

#### 12.3. Bioaccumulative potential

| Iodine (7553-56-2)        |                  |
|---------------------------|------------------|
| Log Pow                   | 2.49             |
| Bioaccumulative potential | Not established. |

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations.

Ecology - waste materials : Hazardous waste due to toxicity. Avoid release to the environment.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN3495 Iodine, 8, III

UN-No.(DOT) : UN3495

Proper Shipping Name (DOT) : Iodine

Transport hazard class(es) (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

Packing group (DOT) : III - Minor Danger

Hazard labels (DOT) : 8 - Corrosive  
6.1 - Poison inhalation hazard



Dangerous for the environment : Yes

Marine pollutant : Yes



DOT Packaging Non Bulk (49 CFR 173.xxx) : 213

DOT Packaging Bulk (49 CFR 173.xxx) : 240

DOT Symbols : + - Fixes (cannot be altered) proper shipping name, hazard class, and packing group

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|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DOT Special Provisions (49 CFR 172.102)                          | : IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).<br>IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.<br>T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2)<br>TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter. |
| DOT Packaging Exceptions (49 CFR 173.xxx)                        | : 154                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 25 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)     | : 100 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| DOT Vessel Stowage Location                                      | : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| DOT Vessel Stowage Other                                         | : 40 - Stow "clear of living quarters", 55 - Stow "separated from" ammonia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Other information                                                | : No supplementary information available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

| Iodine (7553-56-2)                                                        |                                                                    |
|---------------------------------------------------------------------------|--------------------------------------------------------------------|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |                                                                    |
| SARA Section 311/312 Hazard Classes                                       | Immediate (acute) health hazard<br>Delayed (chronic) health hazard |

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

### 15.2. International regulations

#### CANADA

| Iodine (7553-56-2)                                    |
|-------------------------------------------------------|
| Listed on the Canadian DSL (Domestic Substances List) |

#### EU-Regulations

No additional information available

#### National regulations

| Iodine (7553-56-2)                                      |
|---------------------------------------------------------|
| Listed on the Canadian IDL (Ingredient Disclosure List) |

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

|                   |              |
|-------------------|--------------|
| Revision date     | : 11/01/2017 |
| Other information | : None.      |

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Full text of H-phrases: see section 16:

|      |                                         |
|------|-----------------------------------------|
| H311 | Toxic in contact with skin              |
| H314 | Causes severe skin burns and eye damage |
| H317 | May cause an allergic skin reaction     |
| H318 | Causes serious eye damage               |
| H332 | Harmful if inhaled                      |
| H400 | Very toxic to aquatic life              |

NFPA health hazard

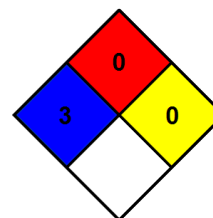
: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard

: 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health

: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability

: 0 Minimal Hazard - Materials that will not burn

Physical

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection

: J

J - Splash goggles, Gloves, Synthetic apron, Dust & vapor respirator

SDS US LabChem

*Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.*