

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **IC118**

Validation Date: 08/01/13

Company Identification:

Distributed by:

Innovational Concepts, Inc.

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Contact Information:

1-800-255-3924 (For Emergencies - Chemtel)

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2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: CORROSIVE, CAUSES EYE AND SKIN BURNS. STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE A FIRE. HARMFUL IF SWALLOWED. CAUSES EYE, SKIN, AND RESPIRATORY TRACT IRRITATION. MAY CAUSE METHEMOGLOBINEMIA. MAY CAUSE ADVERSE REPRODUCTIVE AND FETAL EFFECTS IN ANIMALS.

TARGET ORGANS: Blood, cardiovascular system, smooth muscle.

Do not get in eyes, on skin, or on clothing. Avoid contact with heat, acids and reducing agents. Do not breathe dust, vapor or mist. Keep container tightly closed. Wash thoroughly after handling.

POTENTIAL HEALTH EFFECTS

EYES: Causes eye irritation or burns. May cause conjunctivitis. May cause permanent corneal opacification.

SKIN: Causes skin irritation or burns.

INGESTION: May cause permanent damage to digestive tract. May cause methemoglobinemia, cyanosis (blush discoloration of skin due to deficient oxygenation of the blood), convulsions, and death. Ingestion may cause weakness, muscular incoordination, fine tremors, loss of reflexes, convulsions, possible death from circulatory collapse, decrease in blood pressure, rapid pulse and visual disturbances.

INHALATION: May be fatal if inhaled. May cause methemoglobinemia, cyanosis (blush discoloration of the skin due to deficient oxygenation of the blood), convulsions, tachycardia, dyspnea (labored breathing), and death.

CHRONIC: May cause reproductive and fetal effects. Sodium nitrite may react with secondary or tertiary amines to form nitrosamines (certain nitrosamines are cancer suspect agents).

GENERAL INFORMATION: Read the entire SDS for a more thorough evaluation of the hazards.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| INGREDIENT(S) | CAS Number | Weight % |
|---------------------|------------|----------|
| Sodium Nitrite | 7632-00-0 | 50-70 |
| Sodium Hydroxide | 1310-73-2 | 5-10 |
| Cyclohexylamine | 108-91-8 | 1-5 |
| Diethylaminoethanol | 100-37-8 | 1-5 |

4. FIRST AID MEASURES

EYE CONTACT: Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. After 15 minutes check for and remove any contact lenses. Continue to rinse for at least 15 minutes.

SKIN CONTACT: Get medical attention immediately. Wash with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Destroy contaminated shoes.

INHALATION: Get medical aid immediately. Remove from exposure and move to fresh air immediately and keep in position comfortable for breathing. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

INGESTION: Get medical attention immediately. Do NOT induce vomiting. If victim is conscious and alert, wash out mouth with water then give water. Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN: Absorption of sodium nitrite into the body leads to the formation methemoglobin which, in sufficient concentration causes cyanosis.

5. FIRE FIGHTING MEASURES

NOTE: Solid product. Product will melt and combustion may occur when exposed to fire.

General information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. May react with reducing agents.

Extinguishing Media: Use agents appropriate for surrounding fire such as water spray or foam. Do NOT use straight streams of water.

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR OTHER RELEASE: Remove sources of ignition. Ventilate area. Use appropriate personal protective equipment as indicated in Section 8 of the SDS when risk assessment indicates this is necessary. Use non-sparking tools and equipment. Keep away from combustible materials such as paper or wood. Sweep or shovel spilled materials into suitable containers. Dispose of in accordance with all local, state and federal requirements. Do not allow product or residues to enter waterway or any source of drinking water.

7. HANDLING AND STORAGE

HANDLING: Use appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Keep in the original container. Store and use away from heat, sparks, open flame or any other ignition source. Do not reuse container.

STORAGE: Store in accordance with local regulations. Store in a segregated and approved area. Do not store on wooden floors. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Separate from reducing materials and acids. Keep container tightly closed and sealed until ready for use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower (ANSI Z358.1). Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

| COMPONENT | CAS NUMBER | ACGIH TWA | ACGIH STEL | ACGIH CEILING | OSHA FINAL PEL TWA | IDLH |
|---------------------|------------|-----------|------------|-----------------------|---------------------|---------------------|
| Sodium Nitrite | 7632-00-0 | - | - | - | - | - |
| Sodium Hydroxide | 1310-73-2 | - | - | C 2 mg/m ³ | 2 mg/m ³ | 10mg/m ³ |
| Diethylaminoethanol | 100-37-8 | 2 ppm | - | - | 10 ppm | - |
| Cyclohexylamine | 108-91-8 | 10 ppm | - | - | - | - |

PERSONAL PROTECTIVE EQUIPMENT

Eyes: Wear chemical splash goggles that meet the requirements of 29 CFR 1910.133 or European Standard EN 166.

Skin: Wear appropriate protective gloves to prevent skin exposure(29CFR1910.138 or EN 374).

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Solid

ODOR: Mild

COLOR: Tan to brown

pH: ~12@1%

SOLUBILITY IN WATER: Complete over time in water

10. STABILITY AND REACTIVITY

STABILITY: The product is stable under normal conditions of storage and use. Sodium nitrite slowly oxidizes to sodium nitrate when exposed to air.

INCOMPATIBILITY WITH VARIOUS SUBSTANCES: Reactive or incompatible with the following materials: reducing materials, acids, ammonium salts, organic matter, amines, cyanides, chlorates.

HAZARDOUS POLYMERIZATION: Under normal conditions of storage and use, hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sodium oxide, oxides of nitrogen (toxic and irritating).

11. TOXICOLOGICAL INFORMATION

TOXICITY: No Data Available For Product

Carcinogenicity

| Product/Ingredient Name | ACGIH | IARC | NTP |
|-------------------------|-------|------|-----|
| | - | - | - |

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL INFORMATION: No Data Available For Product.

13. DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. U.S. EPA guidelines for the classifications are listed in 40CFR 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORTATION INFORMATION

U.S. DOT Bill of Lading Description: UN 3084, corrosive solids oxidizing, n.o.s. (sodium hydroxide, sodium nitrite) 8 (5.1), II

15. REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL).

U.S. REGULATIONS

CALIFORNIA PROPOSITION 65: None of the components of this product are listed.

STATE RIGHT TO KNOW (RTK)

| INGREDIENT(S) | CAS# | MA | NJ | PA | MN |
|---------------------|-----------|----|----|----|----|
| Sodium Nitrite | 7632-00-0 | X | X | X | - |
| Sodium Hydroxide | 1310-73-2 | X | X | X | X |
| Cyclohexylamine | 108-91-8 | X | X | X | X |
| Diethylaminoethanol | 100-37-8 | X | X | X | - |

CERCLA/SARA 302

| INGREDIENT(S) | CAS# | Weight % | CERCLA/SARA RQ (lbs) | Section 302 TPQ (lbs) |
|------------------|-----------|----------|----------------------|-----------------------|
| Sodium Nitrite | 7632-00-0 | 50-70 | 100 | - |
| Sodium Hydroxide | 1310-73-2 | 5-10 | 1000 | - |

15. REGULATORY INFORMATION - continued

SARA 311/312 Hazard Categories

| | |
|------------------------------------|----------|
| Immediate: | X |
| Delayed: | X |
| Fire: | - |
| Reactivity: | X |
| Sudden Release of Pressure: | - |

SARA 313:

This material contains sodium nitrite (CAS 7632-00-0), which is subject to the reporting requirements of SARA 313 title III and 40CFR Part 373.

Clean Air Act:

This material does not contain any hazardous air pollutants.

Clean Water Act:

CAS No. 7632-00-2, 1310-73-2 are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

C O T N

Risk Phrases:

- R 25 Toxic if swallowed.
- R 8 Contact with combustible material may cause fire.
- R 50 Very toxic to aquatic organisms.
- R 35 Causes severe burns

Safety Phrases:

- S 26 In case of contact with eyes, rinse with plenty of water and seek medical advice.
- S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WMHIS (Canada)

- Class E: Corrosive material
- Class C: Oxidizing material
- Class D-1B: Material causing immediate and serious toxic effects (Toxic).
- Class D-2B: Material causing other toxic effects.



16. OTHER INFORMATION

Hazardous Material

Information System (U.S.A.)

Health: 3

Flammability: 0

Physical Hazard: 1

National Fire Protection

Association (U.S.A.)

Health: 3

Flammability: 0

Reactivity: 1

HMIS and NFPA use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of 0 means that the substance possesses essentially no hazard; a rating of 4 indicates high hazard.

Date of Creation: 08/01/13

Issue Number:

Date of Revision: 08/09/13

Prepared By: Compliance Group

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