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Version 4

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Name** Insure

**Other means of identification**

**Product Code** 221INSURE  
**UN/ID No.** See section 14  
**Synonyms** None

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Liquid chlorine laundry bleach.  
**Uses advised against** No information available

**Manufacturer Address**

Anderson Chemical Company, 325 South Davis Avenue, Litchfield, MN 55355 (320-693-2477)

**Emergency telephone number**

Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

**Classification**

|                                   |            |
|-----------------------------------|------------|
| Skin corrosion/irritation         | Category 1 |
| Serious eye damage/eye irritation | Category 1 |
| Corrosive to metals               | Category 1 |
| Oxidizing liquids                 | Category 2 |

**Label elements**

**Emergency Overview**

**Danger**

**Hazard statements**

Causes severe skin burns and eye damage  
 May be corrosive to metals  
 May intensify fire; oxidizer



**Appearance** aqueous solution

**Physical state** liquid

**Odor** Pungent Chlorine

**Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Keep away from heat  
 Keep/Store away from clothing/combustible materials  
 Keep only in original container  
 Take any precaution to avoid mixing with combustibles.

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician

Specific treatment (see Section 4 on this label)

IF IN EYES: 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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

Absorb spillage to prevent material damage

**Precautionary Statements - Storage**

Store locked up

Store in a corrosive resistant container.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)****Other Information**

- Very toxic to aquatic life with long lasting effects
- Very toxic to aquatic life

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name       | CAS No.   | Weight-% | Trade Secret |
|---------------------|-----------|----------|--------------|
| Sodium hypochlorite | 7681-52-9 | 12.5     |              |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**First aid measures**

|   |   |
|---|---|
| <b>General advice</b>                     | Immediate medical attention is required.  |
| <b>Eye contact</b>                        | Flush immediately with water for 15 minutes. Lift upper and lower eyelids for complete rinsing. Get immediate medical attention.                            |
| <b>Skin Contact</b>                       | Wash off immediately with plenty of water. Call a physician. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse.               |
| <b>Inhalation</b>                         | Remove to fresh air. Administer oxygen if breathing is difficult. If breathing has stopped, give artificial respiration. Get medical attention immediately. |
| <b>Ingestion</b>                          | Rinse mouth. Drink 1 or 2 glasses of water. Do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person.    |
| <b>Self-protection of the first aider</b> | Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.   |

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Causes severe irritation and or burns.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians**

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

**Specific hazards arising from the chemical**

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal precautions**

Evacuate personnel to safe areas. Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas.

**Environmental precautions**

Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent product from entering drains. See Section 12 for additional ecological information. Prevent further leakage or spillage if safe to do so.

**Methods for containment**

Dike to collect large liquid spills.

**Methods for cleaning up**

Soak up with inert absorbent material. Clean contaminated surface thoroughly. Dike far ahead of liquid spill for later disposal. Take up mechanically, placing in appropriate containers for disposal. After cleaning, flush away traces with water.

**7. HANDLING AND STORAGE****Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Avoid breathing vapors or mists. Use personal protective equipment as required.

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

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep in properly labeled containers. Keep/store only in original container.

**Incompatible materials** Ether, ammonia compounds, hydrogen peroxide, all acids, alum, oxidizing agents, reducing agents, human or animal waste, oxidizable or combustible materials such as wood, cloth or organic materials, organic chemicals such as solvents and solvent based cleaning compounds, fuels and fuel oils, amines, methanol, propane, organic polymers, ethylene glycol, insecticides, heavy metals such as iron, copper, magnesium, aluminum, tin, steel, stainless steel, carbon steel, manganese, zinc, chromium, nickel, cobalt and their alloys, sodium sulfite, sodium bisulfite, sodium hydrosulfite, sodium thiosulfate. DO NOT MIX THIS PRODUCT WITH ANY OF THE FOREGOING OR HAZARDOUS GASES CAN RESULT.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### **Exposure Guidelines**

#### **Appropriate engineering controls**

Showers  
Eyewash stations  
Ventilation systems.

#### **Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Avoid contact with eyes, skin and clothing. If splashing or contact is anticipated, wear impervious protective clothing, as appropriate, to prevent skin contact.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### **Information on basic physical and chemical properties**

|                                      |                          |                         |                          |
|--------------------------------------|--------------------------|-------------------------|--------------------------|
| <b>Physical state</b>                | liquid                   | <b>Odor</b>             | Pungent Chlorine         |
| <b>Appearance</b>                    | aqueous solution         | <b>Odor threshold</b>   | No information available |
| <b>Color</b>                         | clear yellow             |                         |                          |
| <b>Property</b>                      | <b>Values</b>            | <b>Remarks • Method</b> |                          |
| <b>pH</b>                            | 13.2                     |                         |                          |
| <b>Melting point/freezing point</b>  | -29 °C / -20 °F          |                         |                          |
| <b>Boiling point / boiling range</b> | 107 °C / 225 °F          |                         |                          |
| <b>Flash point</b>                   | No information available |                         |                          |
| <b>Evaporation rate</b>              | No information available |                         |                          |
| <b>Flammability (solid, gas)</b>     | No information available |                         |                          |
| <b>Flammability Limit in Air</b>     |                          |                         |                          |
| <b>Upper flammability limit:</b>     | No information available |                         |                          |
| <b>Lower flammability limit:</b>     | No information available |                         |                          |
| <b>Vapor pressure</b>                | No information available |                         |                          |
| <b>Vapor density</b>                 | No information available |                         |                          |

|                                     |                          |
|-------------------------------------|--------------------------|
| <b>Specific Gravity</b>             | 1.211                    |
| <b>Water solubility</b>             | Soluble in water         |
| <b>Solubility in other solvents</b> | No information available |
| <b>Partition coefficient</b>        | No information available |
| <b>Autoignition temperature</b>     | No information available |
| <b>Decomposition temperature</b>    | No information available |
| <b>Kinematic viscosity</b>          | No information available |
| <b>Dynamic viscosity</b>            | No information available |
| <b>Explosive properties</b>         | No information available |
| <b>Oxidizing properties</b>         | No information available |

**Other Information**

|                         |                          |
|-------------------------|--------------------------|
| <b>Softening point</b>  | No information available |
| <b>Molecular weight</b> | No information available |
| <b>VOC Content (%)</b>  | No information available |
| <b>Density</b>          | No information available |
| <b>Bulk density</b>     | No information available |

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

Exposure to air or moisture over prolonged periods. Excessive heat, exposure to light, reduced alkalinity, contamination of any kind. Reduced alkalinity, contamination of any kind can result in evolution of chlorine (toxic) gas.

**Incompatible materials**

Ether, ammonia compounds, hydrogen peroxide, all acids, alum, oxidizing agents, reducing agents, human or animal waste, oxidizable or combustible materials such as wood, cloth or organic materials, organic chemicals such as solvents and solvent based cleaning compounds, fuels and fuel oils, amines, methanol, propane, organic polymers, ethylene glycol, insecticides, heavy metals such as iron, copper, magnesium, aluminum, tin, steel, stainless steel, carbon steel, manganese, zinc, chromium, nickel, cobalt and their alloys, sodium sulfite, sodium bisulfite, sodium hydrosulfite, sodium thiosulfate. DO NOT MIX THIS PRODUCT WITH ANY OF THE FOREGOING OR HAZARDOUS GASES CAN RESULT.

**Hazardous Decomposition Products**

Toxic fumes of sodium oxide, HOCL, chlorine, HCl, NaCl, sodium chlorate and oxygen.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

|                            |  |
|----------------------------|--|
| <b>Product Information</b> | No data available  |
| <b>Inhalation</b>          | May cause irritation of respiratory tract.                             |
| <b>Eye contact</b>         | Corrosive to the eyes and may cause severe damage including blindness. |
| <b>Skin Contact</b>        | Contact causes severe skin irritation and possible burns.              |
| <b>Ingestion</b>           | Ingestion causes burns of the upper digestive and respiratory tracts.  |

| Chemical Name                    | Oral LD50            | Dermal LD50              | Inhalation LC50 |
|----------------------------------|----------------------|--------------------------|-----------------|
| Sodium hypochlorite<br>7681-52-9 | = 8200 mg/kg ( Rat ) | > 10000 mg/kg ( Rabbit ) | -               |

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

| Chemical Name                    | ACGIH | IARC    | NTP | OSHA |
|----------------------------------|-------|---------|-----|------|
| Sodium hypochlorite<br>7681-52-9 | -     | Group 3 | -   | -    |

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 65600 mg/kg

**ATEmix (dermal)** 80080 mg/kg

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Very toxic to aquatic life with long lasting effects

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical Name                    | Algae/aquatic plants                          | Fish   | Crustacea  |
|----------------------------------|---|--|--|
| Sodium hypochlorite<br>7681-52-9 | 0.095: 24 h Skeletonema costatum<br>mg/L EC50 | 0.06 - 0.11: 96 h Pimephales<br>promelas mg/L LC50 flow-through<br>4.5 - 7.6: 96 h Pimephales promelas<br>mg/L LC50 static 0.4 - 0.8: 96 h<br>Lepomis macrochirus mg/L LC50<br>static 0.28 - 1: 96 h Lepomis<br>macrochirus mg/L LC50<br>flow-through 0.05 - 0.771: 96 h<br>Oncorhynchus mykiss mg/L LC50<br>flow-through 0.03 - 0.19: 96 h<br>Oncorhynchus mykiss mg/L LC50<br>semi-static 0.18 - 0.22: 96 h<br>Oncorhynchus mykiss mg/L LC50<br>static | 2.1: 96 h Daphnia magna mg/L<br>EC50 0.033 - 0.044: 48 h Daphnia<br>magna mg/L EC50 Static |

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

#### 14. TRANSPORT INFORMATION

|                              |   |
|------------------------------|---|
| <b>DOT</b>                   | LTD QTY - if packaged in <1.3 gallon containers (Non Hazardous) |
| <b>UN/ID No.</b>             | UN1791  |
| <b>Proper shipping name</b>  | Hypochlorite solutions  |
| <b>Hazardous Ingredients</b> | (Sodium Hypochlorite)   |
| <b>Hazard Class Packing</b>  | 8   |
| <b>Group</b>                 | III   |

#### 15. REGULATORY INFORMATION

##### International Inventories

|                      |                 |
|----------------------|-----------------|
| <b>TSCA</b>          | Complies        |
| <b>DSL/NDSL</b>      | Complies        |
| <b>EINECS/ELINCS</b> | Complies        |
| <b>ENCS</b>          | Does not comply |
| <b>IECSC</b>         | Complies        |
| <b>KECL</b>          | Complies        |
| <b>PICCS</b>         | Complies        |
| <b>AICS</b>          | Complies        |

##### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

##### US Federal Regulations

##### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

##### SARA 311/312 Hazard Categories

|  |     |
|--|-----|
| <b>Acute health hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | No  |
| <b>Fire hazard</b>                       | No  |
| <b>Sudden release of pressure hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

##### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------|-----------------------------|------------------------|---------------------------|----------------------------|
|---------------|-----------------------------|------------------------|---------------------------|----------------------------|

|                                  |        |   |   |   |
|----------------------------------|--------|---|---|---|
| Sodium hypochlorite<br>7681-52-9 | 100 lb | - | - | X |
|----------------------------------|--------|---|---|---|

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

| Chemical Name                    | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                  |
|----------------------------------|--------------------------|----------------|---|
| Sodium hypochlorite<br>7681-52-9 | 100 lb                   | -              | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ |

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

| Chemical Name                    | New Jersey | Massachusetts | Pennsylvania |
|----------------------------------|------------|---------------|--------------|
| Sodium hypochlorite<br>7681-52-9 | X          | X             | X            |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not Applicable

|                              |
|------------------------------|
| <b>16. OTHER INFORMATION</b> |
|------------------------------|

|             |                  |                |                    |                                    |
|-------------|------------------|----------------|--------------------|------------------------------------|
| <b>NFPA</b> | Health hazards 3 | Flammability 0 | Instability 1      | Physical and Chemical Properties - |
| <b>HMIS</b> | Health hazards 3 | Flammability 0 | Physical hazards 1 | Personal protection X              |

Prepared By Imt  
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 Revision Note

15-Sept-2017 Updated/Standardized DoT wording in Sections 1 and 14

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**