### **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 076371108

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

076371116 076371132



Version 1

### Issue Date: 20-September 2012 Revision Date: 1-April 2019

Clear Image Radiographic Cleaner (TCC-012-)

### **1. IDENTIFICATION**

### Product Identifier Product Name

Clear Image Radiographic Cleaner

Other means of identification . SDS #

TCC-012

## Recommended use of the chemical and restrictions on useRecommended UseRadiographic cleaner.

### Details of the supplier of the safety data sheet

Supplier Address The Chemical Connection 300 South Main Street Mauldin, SC 29662

### Emergency Telephone Number

Company Phone Number Emergency Telephone (24 hr)

864-962-6705 INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)

### 2. HAZARDS IDENTIFICATION

Appearance Clear liquid

Physical State Liquid

Odor Mild citric

### Classification

| Skin corrosion/irritation         | Category 1 |  |
|-----------------------------------|------------|--|
| Serious eye damage/eye irritation | Category 1 |  |

Signal Word Danger

### Hazard Statements

Causes severe skin burns and eye damage



### **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





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### Precautionary Statements - Response

Immediately call a poison center or doctor/physician

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

### Precautionary Statements - Storage

Store locked up

### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Other Hazards

Harmful to aquatic life with long lasting effects

### Unknown Acute Toxicity

1.5% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                   | CAS No    | Weight-% |
|---------------------------------|-----------|----------|
| Ethylene Glycol Monobutyl Ether | 111-76-2  | 1-10     |
| Caustic Soda                    | 1310-73-2 | 1-10     |
| Tetrasodium EDTA                | 64-02-8   | 1-10     |

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST-AID MEASURES

### First Aid Measures

| Immediately call a poison center or doctor/physician.   |
|---|
| Immediately flush eyes with plenty of cool, clean water for at least 15 minutes. Keep eyelids apart to maintain maximum contact with the water. Do not allow the individual to rub their eyes. Get immediate medical attention.   |
| Remove contaminated clothing and foot wear. Wash thoroughly with water and do not reuse clothing until properly cleaned. Discard foot wear. If a rash should develop, get medical attention.  |
| Immediately remove individual to fresh air. If individual has stopped breathing, give artificial respiration. Get immediate medical attention.  |
| If victim is conscious and able to swallow, quickly have the victim drink water or milk to dilute. Do not give anything by mouth if victim is unconscious or is having convulsions. Induce vomiting only if advised to do so by a physician or poison control center. Contact a physician or poison control center immediately. |
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### Most important symptoms and effects

#### Symptoms

Inhalation may cause inflammation of mucous membranes and irritation. Causes pain, reddening and swelling of the conjunctiva. May cause irritation similar to a rash with localized edema, reddening and raised lesions. There is no direct data available pertaining to the hazards associated with ingestion of this product. As with most chemicals, ingestion may cause gastrointestinal irritation accompanied by nausea, vomiting and diarrhea.

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

Notes to Physician

There is no direct date available pertaining for aggravation of existing medical conditions by this product.

### **5. FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

Water spray (fog). Dry chemical. Foam. Carbon dioxide (CO2).

Unsuitable Extinguishing Media Not determined.

### Specific Hazards Arising from the Chemical

Not determined.

Hazardous Combustion Products Carbon oxides.

#### 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. Do not direct a solid stream of water or foam into hot, burning pools; this may cause frothing and increase fire intensity.

### 6. ACCIDENTAL RELEASE MEASURES

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

**Personal Precautions** 

Use personal protective equipment as required.

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

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Land release: This material may cause ground water contamination. Contain as much material as possible. Begin a containerization process as soon as practical. Rinse spill area with water after cleanup is complete and containerize all rinse water. Air release: Vapors may be suppressed by the use of a water fog. Contain all run-off water for proper disposal. Water release: This material is soluble/ dispersible in water. Stop source of spill if safe to do so. Divert all flow and contain. Remove and containerize or neutralize in place, then remove for proper disposal.

### 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling

This material is safe to store in well-ventilated areas at ambient temperatures. Keep containers closed when not in use to prevent evaporative losses and possible contamination. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing and eye/face protection.



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### Conditions for safe storage, including any incompatibilities

| Storage Conditions     | Keep containers tightly closed in a cool, well-ventilated place. Store locked up. Store away from incompatible materials. |
|------------------------|---|
| Incompatible Materials | Avoid strong oxidizing agents, strong acids and active metals such as aluminum and magnesium.                             |

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

| Chemical Name                               | ACGIH TLV                    | OSHA PEL   | NIOSH IDLH   |  |
|---|------------------------------|--|--|--|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | TWA: 20 ppm                  | TWA: 50 ppm<br>TWA: 240 mg/m <sup>3</sup><br>(vacated) TWA: 25 ppm<br>(vacated) TWA: 120 mg/m <sup>3</sup><br>(vacated) S*<br>S* | IDLH: 700 ppm<br>TWA: 5 ppm<br>TWA: 24 mg/m <sup>3</sup>   |  |
| Caustic Soda<br>1310-73-2                   | Ceiling: 2 mg/m <sup>3</sup> | TWA: 2 mg/m <sup>3</sup><br>(vacated) Ceiling: 2 mg/m <sup>3</sup>   | IDLH: 10 mg/m <sup>3</sup><br>Ceiling: 2 mg/m <sup>3</sup> |  |

### Appropriate engineering controls

Engineering Controls Ventilation systems. Eyewash stations.

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

| Eye/Face Protection      | Safety glasses with side shields are recommended.  |
|--------------------------|--|
| Skin and Body Protection | Rubber, butyl rubber, or other impervious gloves are recommended if needed to avoid skin contact.  |
| Respiratory Protection   | Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation<br>or risk of inhalation of vapors, use suitable respiratory equipment. |

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Appearance Color Liquid Clear liquid Colorless

Odor Odor Threshold Mild citric Not determined

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Melting Point/Freezing Point

Boiling Point/Boiling Range

Flammability (Solid, Gas)

**Upper Flammability Limits** 

Lower Flammability Limit

Solubility in other solvents

Auto-ignition Temperature

**Decomposition Temperature** 

Property

Flash Point

**Evaporation Rate** 

Vapor Pressure

Specific Gravity

Water Solubility

Partition Coefficient

**Kinematic Viscosity** 

**Explosive Properties** 

**Oxidizing Properties** 

**Dynamic Viscosity** 

Vapor Density

pH

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> Values 12.7-13.2

Not determined

Equal to water

Not available

Not available

1.00 Typical

Infinite

Not determined

Heavier than air

Not determined

>100 °C / >212 °F >100 °C / >212 °F

Liquid- Not applicable

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Remarks • Method

Tag Closed Cup

(Water = 1)

**10. STABILITY AND REACTIVITY** 

Reactivity

Not reactive under normal conditions.

#### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

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

#### Conditions to Avoid Incompatible Materials.

### Incompatible Materials

Avoid strong oxidizing agents, strong acids and active metals such as aluminum and magnesium.

### Hazardous Decomposition Products

Carbon oxides.

### **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

| Produc | t In | forma | tion |
|--------|------|-------|------|
|--------|------|-------|------|

| Eye Contact | Causes severe eye damage. |
|-------------|---------------------------|
|-------------|---------------------------|

- Skin Contact Causes severe skin burns.
- Inhalation Do not inhale.
- Ingestion Do not ingest.

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### Component Information

| Chemical Name   | emical Name Oral LD50 Dermal LD50 |  | Inhalation LC50                              |  |
|---|-----------------------------------|--|--|--|
| Ethylene Glycol Monobutyl Ether = 470 mg/kg ( I<br>111-76-2 |                                   | = 2270 mg/kg (Rat) = 220 mg/kg<br>(Rabbit) | = 2.21 mg/L (Rat) 4 h = 450 ppm<br>(Rat) 4 h |  |
| Caustic Soda<br>1310-73-2                                   |                                   | = 1350 mg/kg (Rabbit)                      | •  |  |
| Tetrasodium EDTA<br>64-02-8                                 | = 10 g/kg (Rat)                   | •  | •  |  |

### Information on physical, chemical and toxicological effects

Symptoms

Please see section 4 of this SDS for symptoms.

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

| Skin corrosion/irritation         | Causes severe skin burns. |
|-----------------------------------|---------------------------|
| Serious eye damage/eye irritation | Causes severe eye damage. |

Carcinogenicity

Group 3 IARC components are "not classifiable as human carcinogens".

| Chemical Name                      | ACGIH | IARC    | NTP | OSHA |
|------------------------------------|-------|---------|-----|------|
| Ethylene Glycol Monobutyl<br>Ether | A3    | Group 3 |     |      |
| 111-76-2                           |       |         |     |      |

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

### Numerical measures of toxicity

Not determined

**Unknown Acute Toxicity** 

1.5% of the mixture consists of ingredient(s) of unknown toxicity.

### **12. ECOLOGICAL INFORMATION**

### Ecotoxicity

Harmful to aquatic life with long lasting effects.

### Component Information

| Chemical Name                                  | Algae/aquatic plants                            | Fish   | Toxicity to<br>microorganisms | Crustacea  |
|--|---|--|-------------------------------|--|
| Ethylene Glycol Monobutyl<br>Ether<br>111-76-2 |   | 1490: 96 h Lepomis<br>macrochirus mg/L LC50<br>static 2950: 96 h Lepomis<br>macrochirus mg/L LC50      |                               | 1698 - 1940: 24 h Daphnia<br>magna mg/L EC50 1000: 4<br>h Daphnia magna mg/L<br>EC50 |
| Caustic Soda<br>1310-73-2                      |   | 45.4: 96 h Oncorhynchus<br>mykiss mg/L LC50 static   |                               |  |
| Tetrasodium EDTA<br>64-02-8                    | 1.01: 72 h Desmodesmus<br>subspicatus mg/L EC50 | 41: 96 h Lepomis<br>macrochirus mg/L LC50<br>static 59.8: 96 h Pimephales<br>promelas mg/L LC50 static |                               | 610: 24 h Daphnia magna<br>mg/L EC50   |

### Persistence/Degradability

Not determined.

### **Bioaccumulation**

Not determined.



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Mobility

| Chemical Name                               | Partition Coefficient |
|---|-----------------------|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | 0.81                  |

### Other Adverse Effects

Not determined

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

### California Hazardous Waste Status

| Chemical Name | California Hazardous Waste Status |
|---------------|-----------------------------------|
| Caustic Soda  | Toxic                             |
| 1310-73-2     | Corrosive                         |

|                          | 14. TRANSPORT INFORMATION   |
|--------------------------|---|
| Note                     | Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances. |
| DOT                      | Not regulated   |
| IATA                     | Not regulated   |
| IMDG<br>Marine Pollutant | This material may meet the definition of a marine pollutant   |
|                          | 15. REGULATORY INFORMATION  |

### International Inventories

One or more ingredient(s) in this product is listed on the TSCA inventory

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

### US Federal Regulations

### CERCLA

| Chemical Name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|---------------|--------------------------|----------------|--------------------------|
| Caustic Soda  | 1000 lb                  |                | RQ 1000 lb final RQ      |
| 1310-73-2     |                          |                | RQ 454 kg final RQ       |

### SARA 313

| Chemical Name                              | CAS No   | Weight-% | SARA 313 - Threshold<br>Values % |
|--|----------|----------|----------------------------------|
| Ethylene Glycol Monobutyl Ether - 111-76-2 | 111-76-2 | 1-10     | 1.0                              |

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### CWA (Clean Water Act)

|   | Component                       | CWA - Reportable<br>Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous<br>Substances |
|---|---------------------------------|--------------------------------|------------------------|---------------------------|-------------------------------|
| - | Caustic Soda<br>1310-73-2(1-10) | 1000 lb                        |                        |                           | X                             |

### US State Regulations

<u>California Proposition 65</u> This product does not contain any Proposition 65 chemicals.

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

| Ol last Name                               | New Jersey | Massachusetts | Pennsylvania |
|--|------------|---------------|--------------|
| Chemical Name                              | Hew belocy | V             | X            |
| thylene Glycol Monobutyl Ether<br>111-76-2 | X          | ^             | ~            |
|  | X          | X             | X            |
| Caustic Soda<br>1310-73-2                  | ~          |               |              |

### **16. OTHER INFORMATION**

NFPA HMIS **Health Hazards** Not determined **Health Hazards** 0

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New format

Flammability Not determined Flammability

Instability Not determined **Physical Hazards** 0

**Special Hazards** Not determined Personal Protection Х

Disclaimer

Issue Date: **Revision Date:** 

**Revision Note:** 

The information provided in this 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