

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

**1.1 Product identifier**

- Product Name** • CTR  
**Product Description** • Red liquid

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

- Relevant identified use(s)** • Water-based emulsion

**1.3 Details of the supplier of the safety data sheet**

- Manufacturer** • IKONICS Corporation  
 4832 Grand Ave.  
 Duluth, MN 55807  
 United States  
 www.ikonics.com  
 sds@ikonics.com
- Telephone (General)** • (218) 628-2217  
**Telephone (General)** • (800) 328-4261 - Toll free

**1.4 Emergency telephone number**

- Chemtrec** • 1-800-424-9300 - Within USA and Canada  
 • +1 703-527-3887 - Outside USA and Canada (collect calls accepted)

**Section 2: Hazards Identification**

**EU/EEC**

According to EU Directive 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

**2.1 Classification of the substance or mixture**

- CLP** • Not classified

**2.2 Label Elements**

**CLP**

- Hazard statements** • Not classified

**Precautionary statements**

**Prevention** • P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**Response** • P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
 P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage/Disposal** • P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**2.3 Other Hazards**

- CLP** • No data available

## UN GHS

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

### 2.1 Classification of the substance or mixture

UN GHS • Not classified

### 2.2 Label elements

UN GHS

**Hazard statements** • Not classified

#### Precautionary statements

**Prevention** • P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**Response** • P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage/Disposal** • P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### 2.3 Other hazards

UN GHS • No data available

---

## United States (US)

According to OSHA 29 CFR 1910.1200 HCS

### 2.1 Classification of the substance or mixture

OSHA HCS 2012 • Not classified

### 2.2 Label elements

OSHA HCS 2012

#### Precautionary statements

**Prevention** • P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**Response** • P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage/Disposal** • P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### 2.3 Other hazards

OSHA HCS 2012 • No data available

---

## Canada

According to WHMIS 2015

### 2.1 Classification of the substance or mixture

WHMIS 2015 • Not classified

### 2.2 Label elements

WHMIS 2015

#### Precautionary statements

**Prevention** • P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**Response** • P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

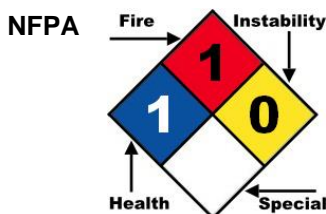
**Storage/Disposal** • P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## 2.3 Other hazards

WHMIS 2015

- No data available

## 2.4 Other information



See Section 12 for Ecological Information.

## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

### 3.2 Mixtures

- No ingredients are hazardous according to OSHA, GHS, CLP or WHMIS criteria.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

- Inhalation**
- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration and call 911 or emergency medical service.
- Skin**
- IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.
- Eye**
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- Ingestion**
- If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Rinse mouth. Never give anything by mouth to an unconscious person. If large quantities are swallowed, call a physician immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

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

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

**Suitable Extinguishing Media**

- SMALL FIRES: Dry chemical, CO<sub>2</sub>, water spray or regular foam.
- LARGE FIRE: Water spray, fog or regular foam.

**Unsuitable Extinguishing Media**

- No data available

- Firefighting Procedures**
- Fire fighters should wear complete protective clothing including self-contained breathing apparatus.  
Keep unauthorized personnel away.  
Ventilate closed spaces before entering.  
LARGE FIRES: Use extinguishing agent suitable for type of surrounding fire.

## 5.2 Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- Some may burn but none ignite readily.

- Hazardous Combustion Products**
- Products of combustion include: carbon oxides (COx).

## 5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.  
Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.  
Wear positive pressure self-contained breathing apparatus (SCBA).

---

## Section 6 - Accidental Release Measures

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

- Personal Precautions**
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.
- Emergency Procedures**
- No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended. Use normal clean up procedures.

### 6.2 Environmental precautions

- No data available.

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

- Containment/Clean-up Measures**
- Use appropriate Personal Protective Equipment (PPE)  
Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container.

### 6.4 Reference to other sections

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

---

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

- Handling**
- Use good safety and industrial hygiene practices.

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

- Storage**
- Keep container closed when not in use. Store away from extreme heat. Do not freeze.  
Ventilate enclosed areas.

### 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

---

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

### 8.2 Exposure controls

- Engineering**
- Local exhaust is recommended but not required. Provide adequate ventilation as

Measures/Controls necessary.

### Personal Protective Equipment

#### Pictograms



#### Respiratory

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

#### Eye/Face

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

#### Hands

- Wear protective gloves - rubber or neoprene.

#### Skin/Body

- Wear protective clothing - apron or other impervious body coverings.

#### General Industrial Hygiene Considerations

- Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

#### Environmental Exposure Controls

- No data available

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

| Material Description                  |  |                                     |                   |
|---------------------------------------|--|-------------------------------------|-------------------|
| Physical Form                         | Liquid   | Appearance/Description              | Viscous liquid    |
| Color                                 | Red  | Odor                                | Not relevant      |
| Physical and Chemical Properties      | Not relevant   |                                     |                   |
| General Properties                    |  |                                     |                   |
| Boiling Point                         | 100 C(212 F)   | Melting Point                       | Not relevant      |
| Decomposition Temperature             | Not relevant   | pH                                  | 4.4               |
| Density                               | 9.1 lbs/gal  | Water Solubility                    | Miscible          |
| Viscosity                             | 4500-8000 Centipoise (cPs, cP) or mPas @ 25 °C(77 °F)  | Explosive Properties                | None              |
| Oxidizing Properties:                 | None   |                                     |                   |
| Volatility                            |  |                                     |                   |
| Vapor Pressure                        | Not relevant   | Vapor Density                       | Not relevant      |
| Evaporation Rate                      | < 1 n-butyl acetate = 1  | VOC (Wt.)                           | Not relevant      |
| Volatiles (Wt.)                       | 50 %   |                                     |                   |
| Flammability                          |  |                                     |                   |
| Flash Point                           | > 200 F(> 93.3333 C)   | UEL                                 | Not relevant      |
| LEL                                   | Not relevant   | Autoignition                        | Not relevant      |
| Flammability (solid, gas)             | Non-flammable in liquid form. When dry, product will burn as an ordinary combustible material. |                                     |                   |
| Environmental                         |  |                                     |                   |
| Half-Life                             | No data available  | Octanol/Water Partition coefficient | No data available |
| Coefficient of water/oil distribution | No data available  | Bioaccumulation Factor              | No data available |
| Bioconcentration Factor               | No data available  | Biochemical Oxygen Demand BOD/BOD5  | No data available |
| Chemical Oxygen Demand                | No data available  | Persistence                         | No data available |
| Degradation                           | No data available  |                                     |                   |

### 9.2 Other Information

- No data available

---

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

- Stable

### 10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

- Avoid freezing. Excess heat.

### 10.5 Incompatible materials

- Strong oxidizing agents, strong acids, strong bases.

### 10.6 Hazardous decomposition products

- Hazardous decomposition products formed under fire conditions - carbon oxides (CO<sub>x</sub>). No decomposition is expected under normal storage and use conditions.

---

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

#### Potential Health Effects

##### Inhalation

###### Acute (Immediate)

- May cause irritation.

###### Chronic (Delayed)

- Repeated and prolonged exposure may cause irritation.

##### Skin

###### Acute (Immediate)

- May cause mild irritation.

###### Chronic (Delayed)

- Repeated and prolonged exposure may cause irritation.

##### Eye

###### Acute (Immediate)

- May cause irritation.

###### Chronic (Delayed)

- Repeated and prolonged exposure may cause irritation.

##### Ingestion

###### Acute (Immediate)

- Under normal conditions of use, no health effects are expected.

###### Chronic (Delayed)

- No specific information available.

---

## Section 12 - Ecological Information

### 12.1 Toxicity

- No data available

### 12.2 Persistence and degradability

- No data available.

### 12.3 Bioaccumulative potential

- No data available

### 12.4 Mobility in Soil

- No data available

### 12.5 Results of PBT and vPvB assessment

- No data available

## 12.6 Other adverse effects

### Section 13 - Disposal Considerations

#### 13.1 Waste treatment methods

- Product waste** • Dispose of content in accordance with local, regional, national, and/or international regulations.
- Packaging waste** • Dispose of container in accordance with local, regional, national, and/or international regulations.

#### 13.2 Other Information

- Dispose of wastes in an approved waste disposal facility.

### Section 14 - Transport Information

|           | 14.1 UN number | 14.2 UN proper shipping name | 14.3 Transport hazard class(es) | 14.4 Packing group | 14.5 Environmental hazards |
|-----------|----------------|------------------------------|---------------------------------|--------------------|----------------------------|
| DOT       | NDA            | NDA                          | NDA                             | NDA                | NDA                        |
| IMO/IMDG  | NDA            | NDA                          | NDA                             | NDA                | NDA                        |
| IATA/ICAO | NDA            | NDA                          | NDA                             | NDA                | NDA                        |

- 14.6 Special precautions for user** • None specified.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** • Not relevant.
- 14.8 Other information**

**DOT** • Not regulated.  
**IMO/IMDG** • Not regulated.  
**IATA/ICAO** • Not regulated.

### Section 15 - Regulatory Information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**SARA Hazard Classifications** • Not classified

#### 15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

#### 15.3 Other Information

- California Proposition 65: This product can expose you to chemicals known to the State of California to cause cancer:  
1,4-Dioxane CAS No. 123-91-1 <0.0003%

### Section 16 - Other Information

#### Relevant Phrases (code & full text)

- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.  
P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Last Revision Date**

- 01 April 2019

**Preparation Date**

- 21 January 2021

**Other Information**

- Approved by: Troy Bergstedt, Director of Chemical Research, (218) 628-2217 ext.142.

**Disclaimer/Statement of Liability**

- The information contained herein is based on data available to us and is believed to be correct. Since this information may have been obtained in part from independent laboratories or other sources not under direct supervision, no representation is made that the information is accurate, reliable, complete, or representative and Buyer may rely thereon only at the Buyer's risk. We make no guarantee that the health and safety precautions we have suggested will be adequate for all individuals and / or situations involving its handling and uses. No warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet.
-