

## 1. Identification

|   |  |
|---|--|
| <b>Product identifier</b>                                     | <b>CENTURY™ D1</b>   |
| <b>Other means of identification</b>                          |  |
| <b>SDS number</b>   | 8930   |
| <b>Product Code</b>   | 200000000536   |
| <b>Recommended use</b>  | Industrial uses: Uses of substances as such or in preparations at industrial sites. Formulation [mixing] of preparations and/or re-packaging (excluding alloys). |
| <b>Recommended restrictions</b>                               | None known.  |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |  |
| <b>Company</b>  | Kraton Chemical, LLC   |
| <b>Address</b>  | P.O. Box 550850  |
| <b>City/State</b>   | Jacksonville, FL   |
| <b>Zip</b>  | 32255-0850   |
| <b>Country</b>  | USA  |
| <b>Phone Number</b>   | 904-928-8700   |
| <b>Alternate Phone Number</b>                                 | 800-526-5294   |
| <b>Fax Number</b>   | 904-928-8780   |
| <b>Emergency-US</b>   | CHEMTREC 800-424-9300  |

## 2. Hazard(s) identification

|  |   |
|--|---|
| <b>Physical hazards</b>                          | Not classified.   |
| <b>Health hazards</b>                            | Not classified.   |
| <b>OSHA defined hazards</b>                      | Not classified.   |
| <b>Label elements</b>                            |   |
| <b>Hazard symbol</b>                             | None.   |
| <b>Signal word</b>                               | None.   |
| <b>Hazard statement</b>                          | The substance does not meet the criteria for classification.                                  |
| <b>Precautionary statement</b>                   |   |
| <b>Prevention</b>                                | Observe good industrial hygiene practices.  |
| <b>Response</b>                                  | Wash hands after handling.  |
| <b>Storage</b>                                   | Store away from incompatible materials.   |
| <b>Disposal</b>                                  | Dispose of waste and residues in accordance with local authority requirements.                |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | After prolonged contact with highly porous materials, this product may spontaneously combust. |
| <b>Supplemental information</b>                  | None.   |

## 3. Composition/information on ingredients

### Substances

| Chemical name | Common name and synonyms | CAS number | %   |
|---------------|--------------------------|------------|-----|
| Monomer acid  |                          | 68955-98-6 | 100 |

## 4. First-aid measures

|                   |   |
|-------------------|---|
| <b>Inhalation</b> | Move to fresh air. Call a physician if symptoms develop or persist. |
|-------------------|---|

|   |  |
|---|--|
| <b>Skin contact</b>   | Wash off with soap and water. Get medical attention if irritation develops and persists.   |
| <b>Eye contact</b>  | Rinse with water. Get medical attention if irritation develops and persists.   |
| <b>Ingestion</b>  | Rinse mouth. Get medical attention if symptoms occur.  |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Direct contact with eyes may cause temporary irritation.   |
| <b>Indication of immediate medical attention and special treatment needed</b> | Treat symptomatically.   |
| <b>General information</b>  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.   |
| <b>5. Fire-fighting measures</b>  |  |
| <b>Suitable extinguishing media</b>   | Water fog. Water spray, dry chemical, carbon dioxide. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).  |
| <b>Unsuitable extinguishing media</b>   | Do not use water jet as an extinguisher, as this will spread the fire.   |
| <b>Specific hazards arising from the chemical</b>                             | During fire, gases hazardous to health may be formed. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. |
| <b>Special protective equipment and precautions for firefighters</b>          | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.  |
| <b>Fire fighting equipment/instructions</b>                                   | Wear suitable protective equipment. Move containers from fire area if you can do so without risk.  |
| <b>Specific methods</b>   | Use standard firefighting procedures and consider the hazards of other involved materials.   |
| <b>General fire hazards</b>   | Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material.   |

## 6. Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.  |
| <b>Methods and materials for containment and cleaning up</b>               | <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.</p> <p>Small Spills: Absorb spill with vermiculite or other inert material. Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p> |
| <b>Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground.   |

## 7. Handling and storage

|   |  |
|---|--|
| <b>Precautions for safe handling</b>                                | Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material. May auto-oxidize with sufficient heat generation to ignite if spread (as a thin film) or absorbed on porous or fibrous material. Contaminated rags and cloths must be put in fireproof containers for disposal. Avoid prolonged exposure. Avoid release to the environment. Observe good industrial hygiene practices. Follow all SDS/label precautions even after container is emptied because they may retain product residues. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Do not store in direct sunlight. Store in original tightly closed container. Keep containers closed when not in use. Store at ambient temperature and atmospheric pressure. Store away from incompatible materials (see Section 10 of the SDS).  |

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### U.S. - OSHA Components

| U.S. - OSHA Components        | Type | Value               | Form                  |
|-------------------------------|------|---------------------|-----------------------|
| Monomer acid (CAS 68955-98-6) | TWA  | 5 mg/m <sup>3</sup> | Oil Mist; Respirable; |

| ACGIH Components   | Type  | Value    | Form                  |
|--|---|----------|-----------------------|
| Monomer acid (CAS 68955-98-6)  | STEL  | 10 mg/m3 | Oil Mist; Respirable; |
|  | TWA   | 5 mg/m3  | Oil Mist; Respirable; |
| <b>Biological limit values</b>   | No biological exposure limits noted for the ingredient(s).  |          |                       |
| <b>Appropriate engineering controls</b>                                      | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. |          |                       |
| <b>Individual protection measures, such as personal protective equipment</b> |   |          |                       |
| <b>Eye/face protection</b>   | Wear safety glasses with side shields (or goggles).   |          |                       |
| <b>Skin protection</b>   |   |          |                       |
| <b>Hand protection</b>   | Wear appropriate chemical resistant gloves.   |          |                       |
| <b>Other</b>   | Wear suitable protective clothing.  |          |                       |
| <b>Respiratory protection</b>  | In case of insufficient ventilation, wear suitable respiratory equipment.   |          |                       |
| <b>Thermal hazards</b>   | Wear appropriate thermal protective clothing, when necessary.   |          |                       |
| <b>General hygiene considerations</b>  | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Eye wash fountain and emergency showers are recommended.  |          |                       |

## 9. Physical and chemical properties

|   |   |
|---|---|
| <b>Appearance</b>                                   | Liquid.                                       |
| <b>Physical state</b>                               | Liquid.                                       |
| <b>Form</b>   | Semi-solid to liquid                          |
| <b>Color</b>  | Light yellow                                  |
| <b>Odor</b>   | Fatty Acid                                    |
| <b>Odor threshold</b>                               | Not available.                                |
| <b>pH</b>   | Not available.                                |
| <b>Melting point/freezing point</b>                 | 95 °F (35 °C) Titer                           |
| <b>Initial boiling point and boiling range</b>      | > 392 °F (> 200 °C)                           |
| <b>Flash point</b>                                  | 356.0 °F (180.0 °C) Cleveland Open Cup        |
| <b>Evaporation rate</b>                             | 0 (n-BuAc=1) estimated                        |
| <b>Flammability (solid, gas)</b>                    | Not available.                                |
| <b>Upper/lower flammability or explosive limits</b> |   |
| <b>Flammability limit - lower (%)</b>               | Not available.                                |
| <b>Flammability limit - upper (%)</b>               | Not available.                                |
| <b>Explosive limit - lower (%)</b>                  | Not available.                                |
| <b>Explosive limit - upper (%)</b>                  | Not available.                                |
| <b>Vapor pressure</b>                               | < 0.001 mm Hg at 20°C                         |
| <b>Vapor density</b>                                | Not available.                                |
| <b>Relative density</b>                             | 0.9 at 25°C/25°C (water=1)                    |
| <b>Solubility(ies)</b>                              |   |
| <b>Solubility (water)</b>                           | 15 mg/L at 20°C; Data is for similar product. |
| <b>Partition coefficient (n-octanol/water)</b>      | 4.9 at 25°C; Data is for similar product.     |
| <b>Auto-ignition temperature</b>                    | 662 °F (350 °C) Data is for similar product.  |
| <b>Decomposition temperature</b>                    | Not available.                                |
| <b>Viscosity</b>                                    | 35 cSt at 40°C                                |

**Other information**

|                  |                                  |
|------------------|----------------------------------|
| Density          | 900.00 kg/m <sup>3</sup> at 20°C |
| Percent volatile | 0 % by weight estimated          |
| Weighted solids  | 100 %                            |

**10. Stability and reactivity**

|   |  |
|---|--|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.  |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.  |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.  |
| <b>Conditions to avoid</b>                | Strong oxidizing agents. Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material. Contact with incompatible materials. |
| <b>Incompatible materials</b>             | Strong oxidizing agents.   |
| <b>Hazardous decomposition products</b>   | Upon decomposition this product emits acrid dense smoke with carbon dioxide, carbon monoxide, water and other products of combustion.  |

**11. Toxicological information****Information on likely routes of exposure**

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Prolonged inhalation may be harmful.   |
| <b>Skin contact</b> | No adverse effects due to skin contact are expected.   |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation.   |
| Monomer acid        | Irritation Corrosion - Eye, No eye irritation.; Data is for similar product.; OECD 405<br>Result: Negative<br>Species: New Zealand white rabbit<br>Observation Period: 72 hr |

**Ingestion** Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics** Direct contact with eyes may cause temporary irritation.

**Information on toxicological effects**

**Acute toxicity** Based on available data, the classification criteria are not met.

| Components                    | Species            | Test Results   |
|-------------------------------|--------------------|--|
| Monomer acid (CAS 68955-98-6) |                    |  |
| <b>Acute</b>                  |                    |  |
| <b>Oral</b>                   |                    |  |
| LD50                          | Wistar rat         | > 2000 mg/kg, 14 days Data is for similar product.; OECD 401                               |
| NOAEL                         | Sprague-Dawley rat | 4000 mg/kg/day, 13 wk No toxicity to reproduction.; Data is for similar product.; OECD 416 |
| <b>Subacute</b>               |                    |  |
| <b>Oral</b>                   |                    |  |
| NOAEL                         | Sprague-Dawley rat | 741 mg/kg/day, 13 wk Data is for similar product.; OECD 408                                |

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Corrosivity**

Monomer acid

Irritation Corrosion - Skin, No skin irritation.; Data is for similar product.; OECD 404  
Result: Negative  
Species: New Zealand white rabbit  
Test Duration: 4 hr

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.

**Eye Contact**

Monomer acid

Irritation Corrosion - Eye, No eye irritation.; Data is for similar product.; OECD 405  
 Result: Negative  
 Species: New Zealand white rabbit  
 Observation Period: 72 hr

**Respiratory or skin sensitization****Respiratory sensitization** Not available.**Skin sensitization** This product is not expected to cause skin sensitization.**Skin sensitization**

Monomer acid

Maximisation Assay (Magnusson and Kligman), Not a skin sensitizer.; Data is for similar product.; OECD 406  
 Result: Negative  
 Species: Guinea pig

**Germ cell mutagenicity**

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Mutagenicity**

Monomer acid

Germ Cell Mutagenicity: Ames, Not mutagenic in Ames Test.; Data is for similar product.; OECD 471;  
 Result: Negative  
 Species: Salmonella typhimurium  
 In Vitro Mammalian Cell Gene Mutation, This material is considered to be non-clastogenic to human lymphocytes in vitro.; Data is for similar product.; OECD 473  
 Result: Negative  
 Species: Human

**Carcinogenicity**

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

**Reproductive toxicity**

This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure**

Not classified.

**Specific target organ toxicity - repeated exposure**

Not classified.

**Aspiration hazard**

Not available.

**12. Ecological information****Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Components                    | Species   | Test Results   |
|-------------------------------|-----------|--|
| Monomer acid (CAS 68955-98-6) | EC50      | Bacteria ( <i>Pseudomonas putida</i> ) > 10000 mg/l                              |
|                               | EL50      | Green algae ( <i>Scenedesmus subspicatus</i> ) > 1000 mg/l, 24 hr OECD 201       |
|                               |           | > 1000 mg/l, 72 hr OECD 201  |
| <i>Chronic</i>                | NOEC      | Earthworm > 1000 mg/kg, 8 wk OECD 222  |
|                               |           |  |
| <b>Aquatic</b>                |           |  |
|                               | Crustacea | Water flea ( <i>Daphnia magna</i> ) > 1000 mg/l, 48 hr OECD 202                  |
| Fish                          | LL50      | Ide, silver or golden orfe ( <i>Leuciscus idus</i> ) > 1000 mg/l, 96 hr OECD 203 |

| Components                  | Species               | Test Results               |
|-----------------------------|-----------------------|----------------------------|
| <i>Chronic</i><br>Crustacea | NOEL<br>Daphnia magna | > 5 mg/l, 21 days OECD 211 |

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential**

**Partition coefficient n-octanol / water (log Kow)**

CENTURY™ D1 4.9 LogKow, at 25°C; Data is for similar product.

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**13. Disposal considerations**

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**14. Transport information**

**DOT**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

**15. Regulatory information**

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List. This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)**

Not regulated.

**NFPA ratings**Health: 1  
Flammability: 1  
Instability: 0**NFPA ratings****16. Other information, including date of preparation or last revision****Issue date** 12-03-2014**Revision date** 09-21-2017**Version #** 3.0**Disclaimer**

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**Revision information**

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