



## Di-Chlor Pac

### Hazard statements

H272 May intensify fire; oxidizer.  
H302 Harmful if swallowed.  
H330 Fatal if inhaled.  
H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.  
H410 Very toxic to aquatic life with long lasting effects.

### Precautionary statements

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.  
P220 Keep away from combustible materials.  
P221 Take any precaution to avoid mixing with combustibles.  
P260 Do not breathe dust.  
P261 Avoid breathing dust.  
P264 Wash contaminated skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P284 In case of inadequate ventilation wear respiratory protection.  
P301+P312 If swallowed: Call a poison center/ doctor if you feel unwell.  
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304+P340 If inhaled: Remove person to fresh air and keep 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.  
P310 Immediately call a poison center/ doctor.  
P320 Specific treatment is urgent (see medical advice on this label).  
P321 Specific treatment (see medical advice on this label).  
P363 Wash contaminated clothing before reuse.  
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.  
P391 Collect spillage.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/ container in accordance with national regulations.

### Contains

Sodium dichloroisocyanurate dihydrate

### Other hazards

### Other

No additional hazards known.  
«46»% of the mixture consists of ingredient(s) of unknown acute toxicity.

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### 3. Composition/information on ingredients

#### Mixtures

|   |                        |
|---|------------------------|
| <b>Sodium dichloroisocyanurate dihydrate</b>  | <b>98-100%</b>         |
| CAS number: 51580-86-0  |                        |
| M factor (Acute) = 1  | M factor (Chronic) = 1 |
| <b>Classification</b><br>Ox. Sol. 2 - H272<br>Acute Tox. 4 - H302<br>Acute Tox. 2 - H330<br>Skin Corr. 1C - H314<br>Eye Dam. 1 - H318<br>STOT SE 3 - H335<br>Aquatic Acute 1 - H400<br>Aquatic Chronic 1 - H410 |                        |

The full text for all hazard statements is displayed in Section 16.

### 4. First-aid measures

#### Description of first aid measures

|                                   |  |
|-----------------------------------|--|
| <b>General information</b>        | Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel. Chemical burns must be treated by a physician.  |
| <b>Inhalation</b>                 | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. Place unconscious person on their side in the recovery position and ensure breathing can take place. |
| <b>Ingestion</b>                  | Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation. Get medical attention if symptoms are severe or persist. |
| <b>Skin Contact</b>               | It is important to remove the substance from the skin immediately. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention. Chemical burns must be treated by a physician.   |
| <b>Eye contact</b>                | Rinse immediately with plenty of water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.  |
| <b>Protection of first aiders</b> | It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.   |

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

|                            |   |
|----------------------------|---|
| <b>General information</b> | The severity of the symptoms described will vary dependent on the concentration and the length of exposure.   |
| <b>Inhalation</b>          | A single exposure may cause the following adverse effects: Difficulty in breathing. Unconsciousness, possibly death.  |
| <b>Ingestion</b>           | May cause chemical burns in mouth, esophagus and stomach. Symptoms following overexposure may include the following: Severe stomach pain. Nausea, vomiting. |

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**Skin contact** Causes severe burns. Symptoms following overexposure may include the following: Pain or irritation. Redness. Blistering may occur.

**Eye contact** Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.

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

**Notes for the doctor** Treat symptomatically. Keep affected person under observation.

### 5. Fire-fighting measures

#### Extinguishing media

**Suitable extinguishing media** Water. The product is not flammable.

**Unsuitable extinguishing media** Do not use the following: Dry chemicals. Carbon dioxide (CO<sub>2</sub>). Ammonia.

#### Special hazards arising from the substance or mixture

**Specific hazards** May cause or intensify fire; oxidizer. This product is toxic.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Very toxic or corrosive gases or vapors.

#### Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. May cause or intensify fire; oxidizer. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

### 6. Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Avoid inhalation of dust. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes.

#### Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

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

**Methods for cleaning up** Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Do not use sawdust or other combustible material. This product is corrosive. Provide adequate ventilation. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.

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**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

### 7. Handling and storage

#### Precautions for safe handling

**Usage precautions** Keep out of the reach of children. Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. This product is toxic. This product is corrosive. Immediate first aid is imperative. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

**Advice on general occupational hygiene** Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

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

**Storage precautions** Store away from incompatible materials (see Section 10). Keep at temperature not exceeding 40°C/104°F. Store locked up. Keep away from flammable and combustible materials. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

**Storage class** Oxidizer storage.

#### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

### 8. Exposure controls/Personal protection

#### Control parameters

#### Occupational exposure limits

OSHA Permissible Exposure Limit (PEL): TWA 15 mg/m<sup>3</sup> (total dust)

OSHA Permissible Exposure Limit (PEL): TWA 5 mg/m<sup>3</sup> (respirable dust)

Long-term Exposure Limit (8-hour TWA): ACGIH 3 mg/m<sup>3</sup> respirable fraction

Long-term Exposure Limit (8-hour TWA): ACGIH 10 mg/m<sup>3</sup> inhalable fraction

#### Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimize worker exposure. Ensure the ventilation system is regularly maintained and tested. In case of insufficient ventilation, wear suitable respiratory equipment. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

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|  |  |
|--|--|
| <b>Hand protection</b>                 | Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. |
| <b>Other skin and body protection</b>  | Wear appropriate clothing to prevent any possibility of skin contact.  |
| <b>Hygiene measures</b>                | Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.  |
| <b>Respiratory protection</b>          | Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.  |
| <b>Environmental exposure controls</b> | Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.  |

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

|   |  |
|---|--|
| <b>Appearance</b>                                   | Solid.                                 |
| <b>Color</b>  | White.                                 |
| <b>Odor</b>   | Chlorine.                              |
| <b>Odor threshold</b>                               | No information available.              |
| <b>pH</b>   | pH (diluted solution): 6.6 1%          |
| <b>Melting point</b>                                | 240-250°C/464-482°F (decomposes)       |
| <b>Initial boiling point and range</b>              | No information available.              |
| <b>Flash point</b>                                  | No information available.              |
| <b>Evaporation rate</b>                             | No information available.              |
| <b>Evaporation factor</b>                           | No information available.              |
| <b>Flammability (solid, gas)</b>                    | No information available.              |
| <b>Upper/lower flammability or explosive limits</b> | No information available.              |
| <b>Other flammability</b>                           | No information available.              |
| <b>Vapor pressure</b>                               | No information available.              |
| <b>Vapor density</b>                                | No information available.              |
| <b>Relative density</b>                             | No information available.              |
| <b>Bulk density</b>                                 | 16.69 lbs/gal                          |
| <b>Solubility(ies)</b>                              | 0.055 lb. / 0.22 lb. water @ 25°C/77°F |

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|                                  |                           |
|----------------------------------|---------------------------|
| <b>Partition coefficient</b>     | No information available. |
| <b>Auto-ignition temperature</b> | No information available. |
| <b>Decomposition Temperature</b> | 240-250°C/464-482°F       |
| <b>Viscosity</b>                 | No information available. |

### 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | See the other subsections of this section for further details.   |
| <b>Stability</b>                          | Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.  |
| <b>Possibility of hazardous reactions</b> | No potentially hazardous reactions known.  |
| <b>Conditions to avoid</b>                | Avoid contact with water or moisture until ready for use. Avoid exposure to high temperatures or direct sunlight. Keep at temperature not exceeding 40°C/104°F.  |
| <b>Materials to avoid</b>                 | Reducing agents. Flammable/combustible materials. Hydrocarbons. Organic cyanides (nitriles). Esters. Some metals. Ammonia. Alkalis. Oxidizing agents.  |
| <b>Hazardous decomposition products</b>   | Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Chlorine. Hydrogen chloride (HCl). Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Nitrous gases (NO <sub>x</sub> ). |

### 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 1,841.41

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.  
LD<sub>50</sub> > 2000 mg/kg, Dermal, Rabbit

##### Acute toxicity - inhalation

###### **Summary**

This material in the form as sold is not expected to produce respiratory effects. Particles of respirable size are generally not encountered. The respirable fraction is typically less than 0.1% by weight for the granular and extra granular grades. If ground or otherwise in a powdered form, effects similar to a corrosive substance may occur. Exposure to the solid product or to free chlorine evolving from the product may cause irritation, redness of upper and lower airways, coughing, laryngeospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure.

**Notes (inhalation LC<sub>50</sub>)** Acute Tox. 3 - H331 Toxic if inhaled.

**ATE inhalation (dusts/mists mg/l)** 0.27

##### Skin corrosion/irritation

**Skin corrosion/irritation** Causes severe burns.

##### Serious eye damage/irritation

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|  |   |
|--|---|
| <b>Serious eye damage/irritation</b>                             | Eye Dam. 1 - H318 Causes serious eye damage.  |
| <b><u>Respiratory sensitization</u></b>                          |   |
| <b>Respiratory sensitization</b>                                 | Based on available data the classification criteria are not met.  |
| <b><u>Skin sensitization</u></b>                                 |   |
| <b>Skin sensitization</b>  | Based on available data the classification criteria are not met.  |
| <b><u>Germ cell mutagenicity</u></b>                             |   |
| <b>Genotoxicity - in vitro</b>                                   | Based on available data the classification criteria are not met.  |
| <b><u>Carcinogenicity</u></b>                                    |   |
| <b>Carcinogenicity</b>   | Based on available data the classification criteria are not met.  |
| <b>IARC carcinogenicity</b>                                      | None of the ingredients are listed.   |
| <b>NTP carcinogenicity</b>                                       | None of the ingredients are listed.   |
| <b>OSHA Carcinogenicity</b>                                      | None of the ingredients are listed.   |
| <b><u>Reproductive toxicity</u></b>                              |   |
| <b>Reproductive toxicity - fertility</b>                         | Based on available data the classification criteria are not met.  |
| <b>Reproductive toxicity - development</b>                       | Based on available data the classification criteria are not met.  |
| <b><u>Specific target organ toxicity - single exposure</u></b>   |   |
| <b>STOT - single exposure</b>                                    | STOT SE 3 - H335 May cause respiratory irritation.  |
| <b>Target organs</b>   | Respiratory system, lungs   |
| <b><u>Specific target organ toxicity - repeated exposure</u></b> |   |
| <b>STOT - repeated exposure</b>                                  | Not classified as a specific target organ toxicant after repeated exposure.   |
| <b><u>Aspiration hazard</u></b>                                  |   |
| <b>Aspiration hazard</b>   | Not relevant. Solid.  |
| <b><u>General information</u></b>                                |   |
| <b>General information</b>                                       | The severity of the symptoms described will vary dependent on the concentration and the length of exposure.   |
| <b>Inhalation</b>  | A single exposure may cause the following adverse effects: Drowsiness, dizziness, disorientation, vertigo. Unconsciousness. High concentrations may be fatal. |
| <b>Ingestion</b>   | May cause irritation.   |
| <b>Skin Contact</b>  | Redness. Irritating to skin.  |
| <b>Eye contact</b>   | Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.                            |
| <b>Route of exposure</b>   | Ingestion Inhalation Skin and/or eye contact  |
| <b>Target Organs</b>   | Respiratory system, lungs   |

### 12. Ecological information

|                                      |   |
|--------------------------------------|---|
| <b>Toxicity</b>                      | Aquatic Acute 1 - H400 Very toxic to aquatic life. Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects. |
| <b><u>Acute aquatic toxicity</u></b> |   |
| <b>Acute toxicity - fish</b>         | LC <sub>50</sub> , 0.42 hours: 96 mg/l, Oryzias latipes (Red killifish)   |



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### Persistence and degradability

**Persistence and degradability** The degradability of the product is not known.

### Bioaccumulative potential

**Bio-Accumulative Potential** The product is not bioaccumulating.

**Partition coefficient** No information available.

### Mobility in soil

**Mobility** No data available.

### Other adverse effects

**Other adverse effects** None known.

## 13. Disposal considerations

### Waste treatment methods

**General information** The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

**Disposal methods** Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

## 14. Transport information

**DOT transport notes** As supplied, the product is not covered by domestic regulations on the transport of dangerous goods under DOT 49 CFR Part 172.101.

### UN Number

**UN No. (DOT)** UN3077

### UN proper shipping name

**Proper shipping name (DOT)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Sodium dichloroisocyanurate dihydrate)

### Transport hazard class(es)

**DOT hazard class** 9

**DOT hazard label** 9

### DOT transport labels



### Packing group

**DOT packing group** III

### Environmental hazards

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### Environmentally Hazardous Substance



### 15. Regulatory information

#### Regulatory References

CAS 51580-86-0 is the dihydrate form of CAS 2893-78-9 and may be considered regulated under that form

#### United States FIFRA - Pesticide Labeling

This product is a US EPA FIFRA registered pesticide (EPA Reg. No.: 53735-13) and is subject to certain labeling requirements under federal pesticide law. These requirements may differ from the classification criteria and hazard information required for an OSHA GHS SDS. The following is the hazard information as required on the FIFRA label:

#### Signal Word

DANGER

#### Hazard Statements

- Corrosive. Causes irreversible eye damage and skin burns
- Harmful if swallowed or absorbed through skin
- May be fatal if inhaled
- Irritating to nose and throat
- STRONG OXIDIZING AGENT
- This pesticide is toxic to fish and aquatic organisms
- Keep out of reach of children

#### US Federal Regulations

##### SARA 313 Emission Reporting

2893-78-9

#### US State Regulations

##### California Proposition 65 Carcinogens and Reproductive Toxins

Not applicable.

##### Massachusetts "Right To Know" List

2893-78-9

##### Rhode Island "Right To Know" List

2893-78-9

##### New Jersey "Right To Know" List

2893-78-9

##### Pennsylvania "Right To Know" List

2893-78-9

#### Inventories

##### US - TSCA

All the ingredients are listed or exempt.

##### US - TSCA 12(b) Export Notification

Not applicable.

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### 16. Other information

|   |   |
|---|---|
| <b>Abbreviations and acronyms used in the safety data sheet</b> | <p>TDG: The transport of dangerous goods act</p> <p>IATA: International air transport association.</p> <p>ICAO: Technical instructions for the safe transport of dangerous goods by air.</p> <p>IMDG: International maritime dangerous goods.</p> <p>CAS: Chemical abstracts service.</p> <p>ATE: Acute toxicity estimate.</p> <p>LC<sub>50</sub>: Lethal concentration to 50 % of a test population.</p> <p>LD<sub>50</sub>: Lethal dose to 50% of a test population (median lethal dose).</p> <p>EC<sub>50</sub>: 50% of maximal effective concentration.</p> <p>PBT: Persistent, bioaccumulative and toxic substance.</p> <p>vPvB: Very persistent and very bioaccumulative.</p> |
| <b>Classification abbreviations and acronyms</b>                | <p>Ox. Sol. = Oxidising solid</p> <p>Acute Tox. = Acute toxicity</p> <p>Eye Dam. = Serious eye damage</p> <p>Skin Corr. = Skin corrosion</p> <p>STOT SE = Specific target organ toxicity-single exposure</p> <p>Aquatic Acute = Hazardous to the aquatic environment (acute)</p> <p>Aquatic Chronic = Hazardous to the aquatic environment (chronic)</p>  |
| <b>Revision date</b>  | 09/15/2021  |
| <b>Revision</b>   | 04  |
| <b>SDS No.</b>  | 4833  |
| <b>Hazard statements in full</b>                                | <p>H272 May intensify fire; oxidizer.</p> <p>H302 Harmful if swallowed.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H318 Causes serious eye damage.</p> <p>H330 Fatal if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H400 Very toxic to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p>   |

The information provided on the SDS is correct to the best of our knowledge, information, and belief at the date of this publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release, and is not to be considered as 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 material or in any process, unless specified in the text.