

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product identifier: DIXICHLOR MAX
Synonyms: Bleach, Sodium Hypochlorite, Sodium Hypochlorite 12.5%
Intended use: Swimming pool chlorinator, Hard surface cleaner, Water treatment chemical, Biocides
Uses Advised Against: None identified. This is a pesticide product, do not use in a pesticide application that is not included on the label.
Company Identification DPC Industries, Inc.
 DPC Enterprises, LP
 DXI Industries, Inc.
 DX Terminals
 PO Box 24600
 Houston, TX 77229-4600
Emergency
CHEMTREC (USA) (800) 424-9300
24 hour Emergency Telephone No. (281) 457-4888
 www.dxgroup.com

2. Hazard identification of the product

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| Physical hazards | Corrosive to metals | Category 1 |
| Health hazards | Skin corrosion/irritation | Category 1 |
| | Serious eye damage/eye irritation | Category 1 |
| | Specific target organ toxicity, single exposure | Category 3 respiratory tract irritation |
| Environmental hazards | Hazardous to the aquatic environment, acute hazard | Category 1 |
| | Hazardous to the aquatic environment, long-term hazard | Category 2 |

Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



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| Signal Word | Danger |
| Hazard Statements | Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. May be corrosive to metals |
| Precautionary Statements | |
| Prevention | Do not breathe mist / vapors / spray. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves / eye protection / face protection. Use in well ventilated area. |
| Response | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Remove / Take off immediately all contaminated clothing. Wash with plenty of soap and water. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor / physician if you feel unwell. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Immediately call a POISON CENTER or doctor / physician. Wash contaminated clothing before reuse. Collect spillage. |
| Storage | Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. |
| Disposal | Dispose of contents / container in accordance with local / national regulations. |

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3. Composition/information on ingredients

Synonyms: Bleach, Sodium Hypochlorite, Sodium Hypochlorite 12.5%

| Ingredient | CAS Number | Percent (%) | NOTES |
|----------------------|------------|-------------|---|
| Sodium hypochlorite. | 7681-52-9 | 12.5 - 15.6 | Substance classified with a health or environmental hazard. |
| Sodium chloride | 7647-14-5 | 9 - 10 | Substance classified with a health or environmental hazard. |
| Sodium hydroxide | 1310-73-2 | 0.5 - 2 | Substance classified with a health or environmental hazard. Substance with a workplace exposure limit. |

4. First Aid Measures

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| General | Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. |
| Inhalation | Move victim to fresh air. Call emergency medical care. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult. |
| Eyes | Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart. Get medical attention. Remove contact lenses if present and easy to do - continue rinsing. |
| Skin | Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Do NOT use solvents or thinners. |
| Ingestion | If accidentally swallowed obtain immediate medical attention. Rinse mouth. Keep at rest. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content does not get into lungs. |
| Most important symptoms and effects, both acute and delayed | |
| Overview | Corrosive effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. |
| Indication of immediate medical attention and special treatment needed | Treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital |
| General information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. |

5. Fire-fighting measures

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| Recommended Extinguishing media | Alcohol resistant foam, CO ² , dry chemical powder, water spray. Do not use water jet. |
| Special hazards arising from the substance or mixture | Hydrogen chloride and chlorine. Chlorine gas rate of decomposition increases with the concentration with temperatures above 85 °F (30 °C). Do not breathe mist / vapors / spray. |
| Advice for fire-fighters | Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. 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. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Some are oxidizers and may ignite combustibles (wood, paper, oil, clothing, etc.). Contact with metals may evolve flammable hydrogen gas. Containers may explode when heated. TOXIC; inhalation, ingestion or skin contact with material may cause severe injury or death. Contact with molten substance may cause severe burns to skin and eyes. Avoid any skin contact. Effects of contact or inhalation may be delayed. Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution. ERG Guide No. 154 |

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6. Accidental release measures

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| Personal precautions, protective equipment and emergency procedures | <p>ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.</p> <p>Stop leak if you can do it without risk.</p> <p>Prevent entry into waterways, sewers, basements or confined areas.</p> <p>Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Local authorities should be contacted if significant spill cannot be contained.</p> |
| Environmental precautions | Do not allow spills to enter drains or watercourses. |
| Methods and material for containment and cleaning up | <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS.</p> |

7. Handling and storage

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| Precautions for safe handling | Wear appropriate personal protective equipment. Do not get in eyes, on skin, on clothing. Chemical attack increases with solution strength. Use with adequate ventilation. Observe good industrial hygiene practices. Do not apply heat or direct sunlight. Temperature and product concentration affect product quality and decomposition rates. |
| Conditions for safe storage, including any incompatibilities | Handle containers carefully to prevent damage and spillage. Keep container tightly closed. Store in a cool and well-ventilated place. Store in a corrosive resistant container. Consult container manufacturer for additional guidance. Store away from and do not mix with incompatible materials such as acids, ammonia, urea, oxidizers, organics and metals such as nickel, copper, tin, aluminum and iron. |

8. Exposure controls and personal protection

Exposure Control Parameters

| CAS No. | Ingestion | Source | Value |
|-----------|----------------------|--------|------------------------------|
| 1310-73-2 | Sodium hydroxide | OSHA | TWA 2 mg/m ³ |
| | | ACGIH | Ceiling: 2 mg/m ³ |
| | | NIOSH | C 2 mg/m ³ |
| 7647-14-5 | Sodium chloride | OSHA | No Established Limit |
| | | ACGIH | No Established Limit |
| | | NIOSH | No Established Limit |
| 7681-52-9 | Sodium hypochlorite. | OSHA | No Established Limit |
| | | ACGIH | No Established Limit |
| | | NIOSH | No Established Limit |

Individual protection measures, such as personal protective equipment

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| Respiratory | Use NIOSH/MSHA approved respirator, following manufacturer's recommendations when concentrations exceed permissible exposure limits. |
| Eyes | Wear face shield with safety glasses with side shields and/or safety goggles. |
| Skin | Chemical resistant clothing such as coveralls/apron boots should be worn. Chemical Impervious gloves. |
| Engineering Controls | Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn. Eye wash and safety shower must be available when handling this product |
| Other Work Practices | Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. |

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9. Physical and chemical properties

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| Appearance | Clear, pale yellow, or greenish Liquid |
| Odor | Pungent, chlorine odor |
| Odor threshold | 0.9 mg/m ³ |
| pH | 12 - 13 |
| Melting point / freezing point | -3 °F (-19.4 °C) |
| Initial boiling point and boiling range | Decomposes above 230 °F (110 °C) |
| Flash Point | Nonflammable |
| Evaporation rate (Ether = 1) | Not Established |
| Flammability (solid, gas) | Not Applicable |
| Upper/lower flammability or explosive limits | Lower Explosive Limit: Not Measured Upper Explosive Limit: Not Measured |
| Vapor pressure (mmHg) | 17.5 (@ 20° C) |
| Vapor Density | Not Established |
| Specific Gravity | 1.20 - 1.40 |
| Solubility in Water | Complete |
| Partition coefficient n-octanol/water (Log Kow) | Not Measured |
| Auto-ignition temperature (°C) | Not Measured |
| Decomposition temperature | Not Measured |
| Viscosity (cSt) | Not Measured |
| VOC % | Not Measured |
| Other information | No other relevant information. |

10. Stability and reactivity

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| Reactivity | Hazardous Polymerization will not occur. |
| Chemical stability | Stable under normal circumstances. |
| Possibility of hazardous reactions | No data available. |
| Conditions to avoid | Contact with incompatible materials. Acid contact will produce chlorine gas. |
| Incompatible materials | Any acidic material, ammonia, urea, oxidizers, organics and metals such as nickel, copper, tin, aluminum and iron. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

11. Toxicological information

Acute toxicity

| Ingredient | Oral LD50, mg/kg | Skin LD50, mg/kg | Inhalation Vapor LC50, mg/L/4hr | Inhalation Dust/Mist LC50, mg/L/4hr | Inhalation Gas LC50, ppm |
|---------------------------------|--------------------------------|----------------------------------|---------------------------------|-------------------------------------|--------------------------|
| Sodium hypochlorite (7681-52-9) | 5,000.00, Rat - Category: 5 | 10,000.00, Rabbit - Category: NA | 10.50, Rat - Category: 4 | No data available | No data available |
| Sodium chloride (7647-14-5) | 1,350.00, Rabbit - Category: 4 | 100.00, Rat - Category: 2 | 40.00, Mouse - Category: NA | 10,500.00, Rat - Category: NA | No data available |
| Sodium hydroxide (1310-73-2) | 6,600.00, Mouse - Category: NA | 1,350.00, Rabbit - Category: 4 | 600.00, Mouse - Category: NA | No data available | No data available |

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11. Toxicological information Acute toxicity (cont.)

| Item | Hazard |
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| Acute Toxicity (mouth) | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract. |
| Acute Toxicity (skin) | Harmful in contact with skin. |
| Acute Toxicity (inhalation) | Vapors and spray mist may irritate throat and respiratory system and cause coughing. |
| Skin corrosion/irritation | Causes severe skin burns and eye damage. |
| Eye damage/irritation | Causes serious eye damage. |
| Sensitization (respiratory) | No data available. |
| Sensitization (skin) | No data available. |
| Germ toxicity | No data available. |
| Carcinogenicity | Not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA. |
| Reproductive Toxicity | No data available. |
| Specific target organ systemic toxicity (single exposure) | May cause respiratory irritation. |
| Specific target organ systemic Toxicity (repeated exposure) | Not Applicable. |
| Aspiration hazard | Not classified; however droplets of product may be aspirated into lungs, through ingestion or vomiting and may cause serious chemical pneumonia. |

12. Ecological information

Toxicity: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Aquatic Ecotoxicity

| Ingredient | 96 hr LC50 fish, mg/l | 48 hr EC50 crustacea, mg/l | ErC50 algae, mg/l |
|---------------------------------|-----------------------------|----------------------------|-------------------------------------|
| Sodium hypochlorite (7681-52-9) | 0.08, Pimephales promelas | 0.032, Daphnia magna | 0.40 (72 hr), Dunaliella primolecta |
| Sodium chloride (7647-14-5) | 1,100.00, Freshwater Fish | 3,310.00, Daphnia magna | Not Available |
| Sodium hydroxide (1310-73-2) | 196.00, Poecilia reticulata | 40.38, Ceriodaphnia dubia | Not Available |

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| Persistence and degradability: | There is no data available on the preparation itself. |
| Bioaccumulative potential: | Not Measured |
| Mobility in soil: | No data available. |
| Results of PBT and vPvB assessment: | This product contains no PBT/vPvB chemicals. |
| Other adverse effects: | No other effects are expected. |

13. Disposal considerations

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| Waste treatment methods: | Do not allow into drains or water courses. Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. Using information provided in this data sheet, advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply. |
| Waste from material: | The waste determination should be made in discussion between the user and the waste disposal company. |
| Container Management: | 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. |

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14. Transport information

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| UN number: | UN1791 |
| UN proper shipping name: | Hypochlorite solutions |
| Transport hazard class(es) | |
| DOT (Domestic Surface Transportation) | |
| DOT Proper Shipping Name: | Hypochlorite solutions |
| DOT Hazard Class: | 8 |
| DOT Label: | 8 |
| UN / NA Number: | UN1791 |
| DOT Packing Group: | III |
| CERCLA/DOT RQ: | 100 lbs. |
| Environmental hazards: | IMDG Marine Pollutant: Yes (Sodium hypochlorite) |
| Special precautions for user: | Not Applicable |

15. Regulatory information

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| Regulatory Overview: | The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory. | |
| WHMIS Classification | D2B E | |
| US EPA Tier II Hazards: | Fire: | No |
| | Sudden Release of Pressure: | No |
| | Reactive: | No |
| | Immediate (Acute): | Yes |
| | Delayed (Chronic): | No |
| SARA 302 Extremely Hazardous Substance: | No | |
| SARA 311/312 Chemicals and RQs (lbs) (>0.1%) : | 100 | |
| SARA 313 (TRI): | No | |
| CAA Section 112 Hazardous Air Pollutant: | No | |
| CAA Section 112R Risk Management Plan: | No | |
| State Regulations | N.J. RTK Substances (>1%) : | Listed |
| | Penn RTK Substances (>1%) : | Listed |
| | California Prop 65: | Not Listed |

16. Other information:

EPA Registration Number: 813-15

NSF Maximum Use Level (STD 60): Check BOL for facility Data. (37 to 84 mg/L)

Revision Information: This is the first revision of this SDS format, changes from previous revision not applicable.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

THE USER IS CAUTIONED TO PERFORM HIS OWN HAZARD EVALUATION AND TO RELY ON HIS OWN DETERMINATIONS.