

SECTION 1: IDENTIFICATION

Manufactured by:

DRS Laboratories, Inc.
PO Box 20247
Lehigh Valley, PA 18002
Non-Emergency: 888-377-1533
E-mail address: info@drslaboratories.com

For Chemical Emergency
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC (24 Hours)
Within USA and Canada: **1-800-424-9300**
Outside USA and Canada: **+1 703-527-3887**
CHEMTREC Contract No: CCN655572

Product Identifier: **MCS CD Generation Chemical – Solid Component B (30 Gram Size)**
Common Name: MCS CD Generation Chemical – Solid Component B
Recommended Use: Mini Chlorine Dioxide System (MCS) Use ONLY
Restrictions on Use: Restricted for use on the Mini Chlorine Dioxide System (MCS) ONLY

SECTION 2: HAZARD(S) IDENTIFICATION

OSHA REGULATORY STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Signal Word: DANGER

Precautionary Statement: Causes eye irritation. May cause skin and respiratory tract irritation. **AVOID** contact with skin, eyes and clothing. Wear protective eyewear (goggles, face shield or safety glasses), suitable gloves and clean, body-covering clothing. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Avoid generating dust. Do not smoke.

Hazard Statement: Harmful if swallowed. Can be harmful if inhaled, on skin or in eyes.

GHS CLASSIFICATION:

CONTACT HAZARD - SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

GHS SYMBOL: Corrosion



Environmental Effects: Material in dry form is not hazardous to the environment. However, readily dissolves in water to form a weak acidic solution that is harmful to aquatic life.

Precautionary Statement(s) - Prevention

Do not breathe dust -- In case of inadequate ventilation, wear respiratory protection -- Wear protective gloves, protective clothing, eye, and face protection -- Wash thoroughly after handling -- Use in a well-ventilated area -- Do not eat, drink or smoke when using this product.

Precautionary Statement(s) - Response

IF INHALED: Move to fresh air. If irritation or discomfort persists, get medical attention.

IF IN EYES: Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

IF SWALLOWED: If large amounts are ingested (greater than tablespoonful), drink large quantities of milk or water.

Follow with milk of magnesia, beaten eggs or vegetable oil. **DO NO INDUCE VOMITING.** Contact Physician immediately.

IF ON SKIN: Wash off immediately with soap and plenty of water for 15 minutes, removing all contaminated clothes and shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Precautionary Statement(s) - Storage

Store the unused, unopened CD tablet pouches in a cool, dry, well-ventilated area away from direct sunlight and heat and in an area inaccessible to children. Keep container tightly closed and store locked up.

Precautionary Statement(s) - Disposal

Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations.

Hazards Not Otherwise Classified (HNOC)

None identified

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

| INGREDIENT | CAS # | WEIGHT IN PERCENT (%) |
|------------------------------|-----------|-----------------------|
| Sodium bisulfate | 7681-38-1 | 80-85 |
| Proprietary Inert Ingredient | | 15-20 |

NOTE: The percentage by weight values reported for this product represent approximate formulation values.

SECTION 4: FIRST-AID MEASURES

- INHALATION:** Move to fresh air. If irritation or discomfort persists, get medical attention.
- INGESTION:** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call medical doctor or poison control center immediately.
- SKIN CONTACT:** Wash off immediately with soap and plenty of water for 15 minutes, removing all contaminated clothes and shoes. Get medical attention if irritation develops. Consult a physician if necessary.
- EYE CONTACT:** Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

Most Important Symptoms/Effects (Acute and Delayed):

Acute Symptoms/Effects: Listed below.

Inhalation (Breathing): Inhalation of dust may irritate nose, throat and/or lungs.

Skin: Prolonged exposure may cause skin irritation.

Eye: Causes serious eye damage.

Ingestion (Swallowing): Small amounts (tablespoonful) swallowed are not likely to cause injury; however, swallowing large amounts may irritate or burn digestive tract.

Protection of First-Aiders: Protect yourself by avoiding contact with this material. Avoid contact with skin and eyes. Do not ingest. Do not breathe dust. Use personal protective equipment. Refer to Section 8 for specific personal protective equipment recommendations. At minimum, treating personnel should utilize PPE sufficient for prevention of bloodborne pathogen transmission.

Notes to Physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5: FIRE-FIGHTING MEASURES

Fire Hazards: The product is not flammable.

Flash Point: Not Applicable.

Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Because material will readily dissolve in water to form a weak acid solution, avoid water contact with material if possible. Product readily dissolves in water to form a weak acid solution. If using water, wear acid protective equipment. No gases or toxic fumes are emitted from this reaction. However, if elevated temperatures (>806°F) are reached, self-contained breathing apparatus should be worn.

Fire Fighting: As in any fire, wear NIOSH approved positive-pressure self-contained breathing apparatus and full protective gear.

Specific Hazards: At temperatures over 806°F (430°C) product will decompose generating oxides of sulfur.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear appropriate personal protective equipment recommended in Section 8, Exposure Controls / Personal Protection, of the SDS.

Methods and Materials for Containment and Cleaning Up: Stop leak if you can do it without risk. Vacuum or shovel material and place in disposal container. Avoid excessive dust generation. Dilute residual material with ample supply of water and direct to sanitary sewer if Federal, State or Local regulations permit. Clean contaminated surface thoroughly.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Readily dissolves in water to form a weak acidic solution that is harmful to aquatic life.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Do not taste or swallow. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or dust when opening container. Avoid creation of dust or fumes. Wear personal protective equipment as described in Exposure Controls/Personal Protection (Section 8) of the SDS. Wash thoroughly after handling. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Safe Storage Conditions: Material is hygroscopic and will readily absorb moisture. Store and handle in accordance with all current regulations and standards. Store in tightly closed and labeled containers. Store in a cool, dry area. Store in a well-ventilated area. Do not allow water to get in container. Store below 125 °F (52 °C). Avoid exposure to sunlight or ultraviolet light. Keep separated from incompatible substances (see below or Section 10 of the SDS).

Incompatibilities/ Materials to Avoid: DO NOT store near strong alkalis.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Regulatory Exposure Limit(s): None. This product does not contain any components that have regulatory occupational exposure limits (OEL's) established.

ENGINEERING CONTROLS: Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

PERSONAL PROTECTIVE EQUIPMENT:

Eye Protection: Wear chemical safety goggles. Where splashing or spraying is possible, use a face-shield in addition to chemical protective goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin and Body Protection: Wear protective clothing to minimize skin contact. Contaminated clothing should be removed and laundered before reuse.

Hand Protection: Wear appropriate chemical resistant gloves. Consult a glove supplier for assistance in selecting an appropriate chemical resistant glove.

Protective Material Types: Neoprene

Respiratory Protection: A NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-----------------------------------|-------------------|--|------------------------|
| Form: | Solid, Tablets | Density: | No data available |
| Color: | Off-White | Water Solubility: | Soluble in water |
| Odor: | Fresh to pungent | pH: | <1 [Conc. (% w/w): 5%] |
| Decomposition Temperature: | 430°C (806°F) | Evaporation Rate (ether=1): | Not applicable |
| Boiling Point/Range: | Not applicable | Flash point: | Not applicable |
| Melting/Freezing Point | 350 °F | Flammability (solid, gas): | Not flammable |
| Vapor Pressure: | No data available | Lower Flammability Level (air): | Not flammable |
| Vapor Density (air=1): | No data available | Upper Flammability Level (air): | Not flammable |

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Do not mix with liquid chlorine bleach (hypochlorites), ammonia cleansers or similar products, or alcohols. Hygroscopic; keep container tightly closed.

Chemical Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: Avoid contact with strong alkaline material such as caustic. Dissolves readily in water to form a weak acid solution.

Conditions to Avoid: Avoid exposure to moisture.

Incompatibilities/Materials To Avoid: **DO NOT MIX** with chlorine bleach, ammonia cleanser or similar products, moisture.

Hazardous Decomposition Products: Only if heated over 806o F (430oC), at which sulfur dioxide and sulfur trioxide are formed.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Principal Routes of Exposure: Dermal contact. Eye contact. Inhalation. Ingestion.

Component Toxicity Data: Acute oral toxicity (LD50): 2800 mg/kg [Rat].

POTENTIAL HEALTH EFFECTS:

Eye contact: Causes serious eye damage.

Skin contact: Prolonged exposure may cause skin irritation.

Inhalation: Inhalation of dust may irritate nose, throat and/or lungs.

Ingestion: Small amounts (tablespoonful) swallowed are not likely to cause injury; however, swallowing large amounts may irritate or burn digestive tract.

SIGNS AND SYMPTOMS OF EXPOSURE:

Depending on the degree and duration of exposure, possible signs and symptoms from contact of this material with the skin and eyes, breathing this material, and swallowing this material may include:

Inhalation (Breathing): No known significant effects or critical hazards.

Skin: Adverse symptoms may include the following: pain or irritation, redness, blistering may occur if repeated exposure.

Eye: Serious Eye Damage. Exposure to eyes may cause irritation and burns to the eye lids, conjunctivitis, corneal edema, and corneal burn. Significant and prolonged contact may cause damage to the internal contents of the eye.

Ingestion (Swallowing): Adverse symptoms may include the following: stomach pains.

CHRONIC TOXICITY:

No known significant effects or critical hazards.

CARCINOGENICITY: Not classified as a carcinogen per GHS criteria. This product is not classified as a carcinogen by NTP, IARC, or OSHA.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity Data: This product readily dissolves in water to form a weak acid solution. A 0.05 percent or greater (by weight) solution of this product will likely be acutely harmful to aquatic life.

Persistence and Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The product itself and its products of degradation are not toxic.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste from material: Dispose in accordance with all applicable regulations. Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. Keep out of water supplies and sewers. May be subject to disposal regulations.

Container Management: Container management: Do not reuse or refill this container. Offer for recycling if available. Triple Rinse container promptly after emptying. Triple Rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the

container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Container rinsate must be disposed of in compliance with applicable regulations. Refer to label for further details.

SECTION 14: TRANSPORT INFORMATION

Transport Classification: Not a DOT controlled material (United States).
Not an IATA/ICAO controlled (regulated) material.

SECTION 15: REGULATORY INFORMATION

US Regulations

OSHA REGULATORY STATUS:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

National Inventory Status

U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA): All components are listed or exempt.

TSCA 12(b): This product is not subject to export notification.

Canadian Chemical Inventory: All components of this product are listed on either the DSL or the NDSL.

State Regulations

California Proposition 65:

This product does not contain any chemicals known to State of CA to cause cancer, birth defects, or any other reproductive harm.

CANADIAN REGULATIONS

- This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations

SECTION 16: OTHER INFORMATION

Revision Number: 3

Section(s) Revised In this Version:

- Changed the SDS format to meet the GHS requirements.
- NFPA and HMIS charts removed.
- CHEMTREC Contract No added.
- Revised Hazard(s) Identification information: SEE SECTION 2
- Emergency Overview was revised: SEE SECTION 2
- Added OSHA Status: SEE SECTION 2
- Added GHS Information: SEE SECTION 2
- Updated First Aid Measures: SEE SECTION 4
- Modified Fire Fighting Measure Recommendations: SEE SECTION 5
- Revised Accidental Release Measures: SEE SECTION 6
- Revised Handling and Storage Recommendations: SEE SECTION 7
- Updated Exposure Controls / Personal Protection. SEE SECTION 8
- Updated Physical and Chemical Properties. SEE SECTION 9
- Stability and Reactivity recommendations: SEE SECTION 10
- Toxicological Information has been revised: SEE SECTION 11
- Updated Disposal Considerations. SEE SECTION 13
- Updated FIFRA Regulations: SEE SECTION 15
- Revised Preparer Information: SEE SECTION 16
- Added SDS Revision Date: SEE SECTION 16
- Added "End of Safety Data Sheet" phrase

Prepared By: DRS Laboratories, Inc.

The information in this Safety Data Sheet should be provided to all who use, handle, transport, or otherwise are exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and persons working with or handling this product. The information presented in this SDS is premised upon proper handling and anticipated uses, and is for the material without chemical additions/alterations. Additionally, if this Safety Data Sheet is more than three years old, please contact this supplier at the phone number in Section 1 to make sure this sheet is current.

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, DRS Laboratories, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet