

### SAFETY DATA SHEET

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

#### 1. Identification

Product identifier Endimal™ M

Other means of identification Material Number: 57956518

**Recommended use**Oxidizing agent **Recommended restrictions**None known

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

**Company name** International Dioxcide, Inc.

Address 40 Whitecap Drive

North Kingstown, RI 02852 United States of America

**Telephone** Information #: (800) 477-6071

Website https://idiclo2.com

**E-mail** idiclo2@ercoworldwide.com

**Emergency phone number** Canada & U.S.A.: (800) 424 9300 (CHEMTREC)

International: (703) 527 3887

**Supplier** Refer to Manufacturer

# 2. Hazard(s) Identification

Physical hazards None

Health hazards Acute toxicity, oral Category 4

Skin irritation Category 2
Eye irritation Category 2B
Specific target organ toxicity, repeated Category 2

exposure (blood, kidneys, liver, spleen)

**Environmental hazards** Not currently regulated by OSHA, refer to Section 12 for additional

information.

**OSHA defined hazards** This material is considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200).

**Label elements** 



Signal word Warning



**Hazard statement** Harmful if swallowed.

Causes serious eye irritation.

Causes skin irritation.

May cause damage to organs through prolonged or repeated exposure

(blood, kidneys, liver, spleen).

**Precautionary statement** 

**Prevention** Wear protective gloves and eye/face protection. Do not breathe vapor. Do

not eat, drink or smoke when using this product. Wash hands thoroughly after

handling.

**Response** IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse

mouth.

**IF ON SKIN:** Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical

attention.

**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 attention.

**IF** exposed or concerned: Call a POISON CENTER or doctor.

Storage Not applicable.

**Disposal** Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Hazard(s) not otherwise classified

(HNOC)

If Sodium Chlorite dries on some types of fire-retardant clothing it is known to cause an exothermic reaction. The reaction has been known to cause burns to skin. Nomex appears to be the only material not to experience this

reaction.

Supplemental information

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.

# 3. Composition/Information on Ingredients

Chemical name	Common name and synonyms	CAS number	Conc. % By Weight
Sodium chlorite	None	7758-19-2	≤5 w/w%

Chemical name of impurities, stabilizing solvents and/or additives: None.

. . . . .

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

#### 4. First-Aid Measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention following exposure or if feeling unwell. If unconscious, place

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in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, if breathing is irregular or respiratory arrest occurs, provide artificial respiration, or oxygen by a trained professional, using a pocket type respirator.

**Skin Contact** 

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. In case of contact, flush skin with plenty of water for at least 20 minutes.

**Eye Contact** 

Check for and remove any contact lenses. Get medical attention. In case of contact, flush eyes with plenty of water for at least 20 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated.

Ingestion

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Causes serious eye irritation. Adverse symptoms may include watering, redness, reddening, tearing, stinging, and swelling. Causes skin irritation with symptoms of reddening, itching, and swelling. Harmful if swallowed. Irritating to mouth, throat and stomach. Symptoms of ingestion may include abdominal pain, nausea, vomiting, and diarrhea. May cause damage to organs through prolonged or repeated exposure.

Indication of immediate medical attention and special treatment needed

Not available.

General information

Treat symptomatically. No specific treatment.

#### 5. Fire-Fighting Measures

Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire. In case of fire, use water spray (fog), foam or dry chemical.

Unsuitable extinguishing

None known.

media



Specific hazards arising from the chemical

In a fire or if heated, a pressure increase will occur and the container may burst.

Special protective equipment and precautions for firefighters

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

If Sodium Chlorite dries on some types of fire-retardant clothing it is known to cause an exothermic reaction. The reaction has been known to cause burns to skin. Nomex appears to be the only material not to experience this reaction.

Firefighting equipment /instructions

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Specific methods** 

Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards** 

May intensify fire; oxidizer when dry.

Hazardous combustion products

Decomposition products may include the following materials: halogenated compounds, metal oxide/oxides.

#### 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor.

Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. Prevent entry into sewers, water courses, basements or confined areas.

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).



### 7. Handling and Storage

Precautions for safe handling

Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers retain product residue and can be hazardous. Do not reuse container.

# 8. Exposure Controls/Personal Protection

**Occupational Exposure Limits** No exposure limits noted for ingredient(s).

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Chemical splash goggles.

Skin protection

**Hand protection** Permeation resistant gloves.

**Other** Permeation resistant clothing and foot protection.

If Sodium Chlorite dries on some types of fire-retardant clothing it is known to cause an exothermic reaction. The reaction has been known to cause burns to skin. Nomex appears to be the only material not to

experience this reaction.

**Respiratory protection** Respirator selection must be based on known or anticipated exposure

levels, the hazards of the product and the safe working limits of the selected respirator. A NIOSH approved air purifying respirator with

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organic vapor cartridges and particulate prefilter can be used to minimize exposure.

**Thermal Hazards** If Sodium Chlorite dries on some types of fire-retardant clothing it is

known to cause an exothermic reaction. The reaction has been known to cause burns to skin. Nomex appears to be the only material not to

experience this reaction.

General hygiene considerations

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### 9. Physical and Chemical Properties

**Appearance** 

**Physical state** Liquid **Form** Liquid Color Light yellow Odor Chlorine [Slight] Odor threshold Not available Molecular formula Not available Molecular weight Not available рΗ 9 to 9.5 **Melting point/Freezing Point** Not available Initial boiling point and boiling range 101 °C (1013 hPa)

Flash point Closed cup: Not applicable

**Evaporation rate**Flammability (solid, gas)
Not available

Upper/lower flammability or explosive limits

Flammability limit – lower (%)
Flammability limit – upper (%)
Explosive limit – lower (%)
Explosive limit – upper (%)
Vapor pressure
Vapor density
Relative density
Not available
Not available
Not available
Not available

Solubility (ies)

Solubility (water) Miscible in water

Partition coefficient (n-octanol/water) Not available

Auto-ignition temperature Not available

Decomposition temperature Not available

Viscosity Not available

Other information

Density 1.03 g/cm<sup>3</sup>
Flammability Not available



1.024 to 1.034 Specific gravity **Surface tension** Not available

### 10. Stability and Reactivity

Reactivity No specific test data related to reactivity available for this product or its

ingredients.

**Chemical stability** The product is stable.

**Possibility of hazardous** 

Under normal conditions of storage and use, hazardous reactions will not

reactions

occur.

**Conditions to Avoid** 

No specific data.

**Incompatible materials** No specific data.

Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition

products should not be produced.

### 11. Toxicological Information

Information on likely routes of exposure

Inhalation No known significant effects or critical hazards.

Skin contact Causes skin irritation.

**Eve contact** Causes serious eye irritation.

Harmful if swallowed. Irritating to mouth, throat and stomach. Ingestion

Delayed and immediate effects and chronic effects from short-term and long-term exposure

Effects of short-term (acute) exposure

Causes serious eye irritation. Adverse symptoms may include watering, redness, reddening, tearing, stinging, and swelling. Causes skin irritation with symptoms of

reddening, itching, and swelling. Harmful if swallowed. Irritating to mouth, throat and stomach. Symptoms of ingestion may include abdominal pain, nausea,

vomiting, and diarrhea.

Effects of long-term (chronic) exposure

May cause damage to organs through prolonged or repeated exposure.

Information on toxicological effects

**Acute toxicity** 

**Product Species Test Results** Endimal™ M Acute LD50 Oral Rat 1075 mg/kg (Test results for a

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product at higher concentration)



>2000 mg/kg (Test results for a LD50 Dermal Rat

product at higher concentration)

LD50 Inhalation (dusts Rat >6.53 mg/l over a 4 hour exposure

and mists)

(Test results for a product at higher

concentration)

Skin corrosion/irritation Moderate irritant (Test results for a product at higher

concentration)

Serious eye damage/eye irritation Mild irritant (Test results for a product at higher

concentration)

Respiratory or skin sensitization

**Respiratory sensitization** Not sensitizing.

Skin sensitizer Not sensitizing.

Germ cell mutagenicity Not mutagenic in a standard battery of genetic toxicological

tests. Did not show carcinogenic or mutagenic effects in

animal experiments.

Carcinogenicity This product is not considered to be a carcinogen by IARC,

ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of

Carcinogenicity

Sodium Chlorite (CAS 7758-19-2) Not classifiable as to

carcinogenicity to humans.

**OSHA Specifically Regulated** 

Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Not classified as a reproductive toxin.

Specific target organ toxicity - single

exposure

Not classified as a specific target organ toxicity -single

exposure.

Specific target organ toxicity - repeated

exposure

Specific Target Organ Toxicity (STOT), Repeated Exposure:

blood, kidneys, liver, spleen.

**Aspiration toxicity** Not expected to be an aspiration hazard.

**Chronic effects** Chronic skin contact with low concentrations may cause

dermatitis. Prolonged or repeated overexposure may cause

blood, liver, spleen and kidney effects.

12. Ecological Information

**Ecotoxicity** 

**Test Results Product Species** 

<sup>\*</sup> Estimates for product may be based on additional component data not shown.



Sodium Chlorite (CAS 7758-19-2)

**Aquatic** 

Acute

Algae EC<sub>50</sub> Green algae (Selenastrum capricornutum) 1.2 mg/l

Crustacea EC<sub>50</sub> Water flea (Daphnia) 0.025 mg/l

Fish LC<sub>50</sub> Sheepshead minnow (Cyprinodon variegatus) 110 mg/l

Chronic

Algae EC<sub>50</sub> Green algae (Selenastrum capricornutum) 1 mg/l

**Persistence and degradability** Biodegradation is not applicable to inorganic substances.

**Bioaccumulative potential** The product itself has not been tested

Mobility in soil In soil, will degrade to sodium chloride but may form chlorine

dioxide in contact with acidic soils. Chlorate is an intermediate product of decomposition; it will slowly degrade to chloride.

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** 

The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls laws.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

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.

IATA Not regulated.

IMDG Not regulated.

Transport in bulk according Not available.

to Annex II of MARPOL 73/78 and the IBC Code

**General information** RQ: 0 lbs.

### 15. Regulatory Information

SARA 311/312 Immediate (acute) health hazard

Delayed (chronic) health hazard

SARA Title III Section 302 Extremely None

**Hazardous Substances** 

SARA Title III Section 313 Toxic None

Chemicals

US EPA CERCLA None

**Hazardous Subtances (40** 

**CFR 302.4)** 

**U.S Toxic Substances Control Act** Listed on the TSCA Inventory.

#### State regulations

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Ingredient Name	CAS Number	State Code	Concentration (%)
Sodium chlorite	7758-19-2	MA - S, NJ - HS, PA - RTK HS	≤5
Water	7732-18-5		≥90

Massachusetts Substances: MA - S

Massachusetts Extraordinary Hazardous Substances: MA - Extra HS

New Jersey Hazardous Substances: NJ - HS

Pennsylvania RTK Hazardous Substances: PA - RTK HS Pennsylvania Special Hazardous Substances: PA - Special HS

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#### California Prop. 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

#### **16.Other Information**

**Issue date** 4/1/2022

Revision # 6

**Revision Indicator** Clarified precautionary statements, added FR clothing precaution. **List of abbreviations** ACGIH: American Conference of Governmental Industrial Hygienists

**CAS: Chemical Abstract Services** 

CERCLA: Comprehensive Environmental Response, Compensation and

Liability Act of 1980

CFR: Code of Federal Regulations DOT: Department of Transportation EPA: Environmental Protection Agency

EPCRA: Emergency Planning and Community Right-to-Know Act

ERG: Emergency Response Guidebook HSDB® - Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer IATA: International Air Transport Association

IBC: Intermediate Bulk Container

IDLH: immediately dangerous to life or health IMDG: International Maritime Dangerous Goods

LC: Lethal Concentration

LD: Lethal Dose

NIOSH: National Institute of Occupational Safety and Health

NOEC: No observable effect concentration

NTP: National Toxicology Program

OECD: Organization for Economic Cooperation and Development

OEL: National occupational exposure limits

OSHA: Occupational Safety and Health Administration

PEL: Permissible exposure limit

RCRA: Resource Conservation and Recovery Act

**RQ: Reportable Quantity** 

RTECS: Registry of Toxic Effects of Chemical Substances

SAR: supplied-air respirator

SCBA: self-contained breathing apparatus

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit TWA: Time Weighted Average

**UN: United Nations** 



**References** None.

#### Disclaimer

Information presented in this SDS is furnished in accordance with OSHA's Hazard Communication Standard (HCS) 2012.

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