# Safety Data Sheet

Issue Date: 16-Nov-2020

Revision Date: 19-Feb-2021

Version 1

# **1. IDENTIFICATION**

12

<u>Product identifier</u> Product Name	Fortify Clear		
Other means of identification SDS #	RXG-019		
Registration Number(s) UN/ID No	EPA Reg. No. 88341-8-891 UN1760		
Recommended use of the chemical	and restrictions on use		
Recommended Use	Disinfectant.		
Details of the supplier of the safety data sheet			

Supplier Address Rx Green Technologies, LLC 15 Tinker Ave. Londonderry, NH 03053 Phone: (603) 769-3450 Fax: (603) 769-3450

### Emergency telephone number

Emergency Telephone

INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)

# 2. HAZARDS IDENTIFICATION

**Emergency Overview** This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

Appearance Greenish yellow liquid

Physical state Liquid

Odor Chlorine

**Classification** 

Serious eye damage/eye irritation	Category 2
Corrosive to metals	Category 1

<u>Signal Word</u> Warning

Hazard statements Causes serious eye irritation May be corrosive to metals



# **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Keep only in original container

# Precautionary Statements - Response

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 advice/attention IN CASE OF SPILL: Absorb spillage to prevent material damage

#### Precautionary Statements - Storage

Store in corrosive resistant container with a resistant inner liner

#### Other hazards

Toxic to aquatic life

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS No	Weight-%
Chlorine dioxide	10049-04-4	0.3

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

# 4. FIRST AID MEASURES

#### **Description of first aid measures**

General Advice	Take affected persons out into the fresh air. Immediately remove any clothing soiled by the product.		
Eye Contact	Protect unharmed eye. Remove contact lenses if worn, if possible.		
Skin Contact	Immediately rinse with water. If skin irritation is experienced, consult a doctor.		
Inhalation	Supply fresh air; consult doctor in case of complaints. In case of irregular breathing or respiratory arrest provide artificial respiration. Provide oxygen treatment if affected person has difficulty breathing.		
Ingestion	Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help.		
Most important symptoms and effects, both acute and delayed			
Symptoms Breathing difficulty. Coughing. Irritant to eyes. Nausea in case of ingestion. Gastric or intestinal disorders when ingested. Danger of impaired breathing. May cause respiratory irritation.			
Indication of any immediate medical attention and special treatment needed			
Notes to Physician	Treat symptomatically.		
5. FIRE-FIGHTING MEASURES			

#### Suitable Extinguishing Media

The product is not flammable. Use fire fighting measures that suit the environment.

# Unsuitable Extinguishing Media None.

# Specific Hazards Arising from the Chemical

Formation of toxic gases is possible during heating or in case of fire.

Hazardous combustion products Chlorine. Chlorine compounds.

# Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

	6. ACCIDENTAL RELEASE MEASURES
Personal precautions, protective eq	uipment and emergency procedures
Personal Precautions	Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
Environmental precautions	
Environmental precautions	Avoid release to the environment. See Section 12 for additional Ecological Information.
Methods and material for containme	ent and cleaning up
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean-Up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Do not allow product to dry out. For waste disposal, see section 13 of the SDS.
	7. HANDLING AND STORAGE
Precautions for safe handling	
Precautions for safe handling Advice on Safe Handling	Use only in well-ventilated areas. Prevent formation of aerosols. Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C).
	not expose to temperatures exceeding 122°F (50°C).
Advice on Safe Handling	not expose to temperatures exceeding 122°F (50°C).

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Chlorine dioxide	Ceiling: 0.1 ppm	TWA: 0.1 ppm	IDLH: 5 ppm
10049-04-4		TWA: 0.3 mg/m <sup>3</sup>	TWA: 0.1 ppm
		(vacated) TWA: 0.1 ppm	TWA: 0.3 mg/m <sup>3</sup>
		(vacated) TWA: 0.3 mg/m <sup>3</sup>	STEL: 0.3 ppm
		(vacated) STEL: 0.3 ppm	STEL: 0.9 mg/m <sup>3</sup>
		(vacated) STEL: 0.9 mg/m <sup>3</sup>	-

# Appropriate engineering controls

**Engineering Controls** 

Provide adequate ventilation.

### Individual protection measures, such as personal protective equipment

Eye/Face Protection	Safety glasses.
Skin and Body Protection	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Wear protective work clothing.
Respiratory Protection	Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded. Use suitable respiratory protective device in case of insufficient ventilation. Use suitable respiratory protective device when high concentrations are present. For spills, respiratory protection may be advisable.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state Appearance Color	Liquid Greenish yellow liquid Greenish yellow	Odor Odor Threshold	Chlorine Not determined
Property pH Melting point / freezing point Boiling point / boiling range Flash point Evaporation Rate Flammability (Solid, Gas)	Values 6.0-8.0 0 °C / 32 °F 100 °C / 212 °F Not determined Not determined Liquid - Not Applicable	<u>Remarks • Method</u>	
Flammability Limit in Air Upper flammability or explosive limits Lower flammability or explosive limits	Not determined Not determined		
Vapor Pressure Vapor Density Relative Density Water Solubility Solubility in other solvents Partition Coefficient	Not determined Not determined Not determined Not determined Not determined Not determined		
Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic Viscosity Explosive Properties Oxidizing Properties	Product is not self-igniting Not determined Not determined Not determined Not an explosive Not determined		
Other information Liquid Density	1.03 g/cm³ (8.595 lbs/gal)		

# **10. STABILITY AND REACTIVITY**

# Reactivity

Not reactive under normal conditions.

# **Chemical stability**

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Contact with acids releases toxic gases. Reacts with peroxides and other radical forming substances. Reacts with reducing agents.

#### Conditions to Avoid

Keep out of reach of children.

# Incompatible materials

Acids. Alkalis. Peroxides.

### Hazardous decomposition products

Chlorine. Chlorine compounds.

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Product Information	
Eye Contact	Avoid contact with eyes.
Skin Contact	Avoid contact with skin.
Inhalation	Do not inhale.
Ingestion	Do not ingest.

# Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Chlorine dioxide	= 292 mg/kg (Rat)	-	= 32 ppm (Rat) 4 h
10049-04-4			

#### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Please see section 4 of this SDS for symptoms.

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

Serious eye damage/eye irritation	Causes serious eye irritation.
Carcinogenicity	Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Numerical measures of toxicity	

The following values are calculated based on chapter 3.1 of the GHS document .Oral LD5097,333.30 mg/kgATEmix (inhalation-dust/mist)16.7000 mg/L

# **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Toxic to aquatic life.

# **Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea
Chlorine dioxide		0.021: 96 h Danio rerio mg/L LC50	
10049-04-4		semi-static	

# Persistence/Degradability

Not determined.

# **Bioaccumulation**

There is no data for this product.

### Mobility

Not determined

# **Other Adverse Effects**

Not determined

# **13. DISPOSAL CONSIDERATIONS**

# Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.			
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.			

# 14. TRANSPORT INFORMATION

<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
<u>DOT</u> UN/ID No Proper Shipping Name Hazard class Packing Group	UN1760 Corrosive liquids, n.o.s. (0.3% chlorine dioxide, stabilized) 8 III
IATA UN number Proper Shipping Name Transport hazard class(es) Packing Group	UN1760 Corrosive liquids, n.o.s. (0.3% chlorine dioxide, stabilized) 8 III
IMDG UN number Proper Shipping Name Transport hazard class(es) Packing Group Marine Pollutant	UN1760 Corrosive liquids, n.o.s. (0.3% chlorine dioxide, stabilized) 8 III This material may meet the definition of a marine pollutant

# **15. REGULATORY INFORMATION**

### International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Chlorine dioxide	Х	ACTIVE	Х	Х	Х	Х	Х		Х

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### US Federal Regulations

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Chlorine dioxide	Х	Х	Х
10049-04-4			

#### EPA Pesticide Registration Number EPA Reg. No. 88341-8-89112

#### EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label

# Difference between SDS and EPA pesticide label XXX

# **16. OTHER INFORMATION**

<u>NFPA</u> HMIS	1		Instability 0 Physical hazards 0	Special Hazards Not determined Personal Protection Not determined
Issue Date: Revision Date: Revision Note:	16-Nov- 19-Feb- New for	2021		

Disclaimer

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

End of Safety Data Sheet