

Safety Data Sheet

Issue Date: 16-Nov-2020

Revision Date: 19-Feb-2021

Version 1

1. IDENTIFICATION

Product identifier

Product Name Fortify Cloud

Other means of identification

SDS # RXG-020

Registration Number(s) EPA Reg. No. 88228-8-89112
UN/ID No UN2813

Recommended use of the chemical and restrictions on use

Recommended Use Biocide.

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 White granules

Physical state Solid

Odor Chlorine

Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (repeated exposure)	Category 2
Oxidizing solids	Category 2
Substances or mixtures which, in contact with water, emit flammable gases	Category 3
Corrosive to metals	Category 1
Combustible dust	

Signal Word

Danger

Hazard statements

Harmful if swallowed

Harmful if inhaled

Causes severe skin burns and eye damage

May cause damage to organs through prolonged or repeated exposure

May intensify fire; oxidizer

In contact with water releases flammable gases

May be corrosive to metals May form combustible dust concentrations in air

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Handle under inert gas. Protect from moisture

Keep/Store away from clothing/ combustible materials

Take any precaution to avoid mixing with combustibles

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep only in original container

Precautionary Statements - Response

Immediately call a poison center or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a poison center or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a poison center or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Do NOT induce vomiting

In case of fire: Use CO₂, dry chemical, or foam for extinction

IN CASE OF SPILL: Absorb spillage to prevent material damage

Precautionary Statements - Storage

Store locked up

Store in a dry place. Store in a closed container

Store in corrosive resistant container with a resistant inner liner

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards

Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Sodium bisulfate	7681-38-1	25-40
Sodium Chlorite	7758-19-2	15-30

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	Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. In case of irregular breathing or respiratory arrest provide artificial respiration. Take affected persons out into the fresh air.
Eye Contact	Protect unharmed eye. Remove contact lenses if worn, if possible. Rinse opened eye for several minutes under running water. Then consult a doctor.
Skin Contact	Brush off loose particles from skin. Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent. If skin irritation continues, consult a doctor. Launder contaminated clothing before reuse. Seek immediate medical help for blistering or open wounds.
Inhalation	Supply fresh air; consult doctor in case of complaints. Provide oxygen treatment if affected person has difficulty breathing. In case of irregular breathing or respiratory arrest provide artificial respiration.
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. Cyanosis. Methaemoglobinaemia. Irritant to skin and mucous membranes. Strong irritant with the danger of severe eye injury. Danger of gastric perforation. Causes serious eye damage. Danger of impaired breathing. Danger of pulmonary edema. Repeated exposure may cause skin dryness or cracking. Coughing and wheezing from inhalation of large quantities of dust. May cause respiratory irritation. Harmful if swallowed.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use water in flooding quantities to fight fire.

Unsuitable Extinguishing Media Gaseous extinguishing agents. Foam. Carbon dioxide (CO₂). Extinguishing powder.

Specific Hazards Arising from the Chemical

In contact with water releases flammable gases. May intensify fire; oxidizer.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO₂). Chlorine. Chlorine compounds. Chlorine dioxide. Sulfur oxides.

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 equipment and emergency procedures

Personal Precautions Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Pick up and transfer to properly labeled containers. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing and eye/face protection. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Handle under inert gas. Protect from moisture. Keep/store away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep only in original container.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up. Store in a cool, dry, well-ventilated place. Keep container tightly closed.

Incompatible Materials Reducing agents. Combustible material. Moisture. Metals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses. Refer to 29 CFR 1910.133 for eye and face protection regulations.

Skin and Body Protection Wear protective gloves and protective clothing. Nitrile, butyl, neoprene, or pvc gloves. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

Respiratory Protection In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment. Refer to 29 CFR 1910.134 for respiratory protection requirements.

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	Solid	Odor	Chlorine
Appearance	White granules	Odor Threshold	Not determined
Color	Not determined		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	6.0-7.0		
Melting point / freezing point	Not determined		
Boiling point / boiling range	Not determined		
Flash point	Not determined		
Evaporation Rate	Not determined		
Flammability (Solid, Gas)	Contact with combustible material may cause fire		
Flammability Limit in Air			
Upper flammability or explosive limits	Not determined		
Lower flammability or explosive limits	Not determined		
Vapor Pressure	Not determined		
Vapor Density	1.5 g/cm ³ (12.518 lbs/gal)		
Relative Density	Not determined		
Water Solubility	Soluble in water		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Autoignition temperature	Not determined		
Decomposition temperature	Not determined		
Kinematic viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Contains an oxidizing agent		

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Keep out of reach of children.

Incompatible materials

Reducing agents. Combustible material. Moisture. Metals.

Hazardous decomposition products

Carbon monoxide. Carbon dioxide (CO₂). Chlorine. Chlorine compounds. Chlorine dioxide. Sulfur oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact	Avoid contact with eyes.
Skin Contact	Avoid contact with skin.
Inhalation	Harmful if inhaled.
Ingestion	Harmful if swallowed.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium bisulfate 7681-38-1	= 2490 mg/kg (Rat)	-	-
Sodium Chlorite 7758-19-2	= 165 mg/kg (Rat)	= 107.2 mg/kg (Rabbit)	= 230 mg/m ³ (Rat) 4 h
Sodium Polyacrylate 9003-04-7	> 40 g/kg (Rat)	-	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Please see section 4 of this SDS for symptoms.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Causes severe skin burns.
Serious eye damage/eye irritation	Causes severe eye damage.
Carcinogenicity	Group 3 IARC components are "not classifiable as human carcinogens".

Chemical name	ACGIH	IARC	NTP	OSHA
Sodium Chlorite 7758-19-2		Group 3		

Legend

*IARC (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to Carcinogenicity in Humans*

STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

Oral LD50	403.30 mg/kg
Dermal LD50	357.14 mg/kg
ATEmix (inhalation-dust/mist)	0.766 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Component Information

Chemical name	Algae/aquatic plants	Fish	Crustacea
Sodium bisulfate 7681-38-1			190: 48 h Daphnia magna mg/L EC50
Sodium Chlorite 7758-19-2		100: 96 h Lepomis macrochirus mg/L LC50 static 100 - 500: 96 h Brachydanio rerio mg/L LC50 static 100: 96 h Oncorhynchus mykiss mg/L LC50 static	0.012 - 0.018: 48 h Daphnia magna mg/L EC50 Static 0.026: 48 h Daphnia magna mg/L EC50 0.25 - 0.33: 48 h Daphnia magna mg/L EC50 Flow through

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.

California Hazardous Waste Status

Chemical name	California Hazardous Waste Status
Sodium Chlorite 7758-19-2	Toxic Ignitable

14. TRANSPORT INFORMATION**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No	UN2813
Proper Shipping Name	Water-reactive solid, n.o.s. (Activated Sodium Chlorite)
Hazard class	4.3
Packing Group	III

IATA

UN number	UN2813
Proper Shipping Name	Water-reactive solid, n.o.s. (Activated Sodium Chlorite)
Transport hazard class(es)	4.3
Packing Group	III

IMDG

UN number	UN2813
Transport hazard class(es)	4.3
Packing Group	III
Marine Pollutant	This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Sodium bisulfate	X	ACTIVE	X	X	X	X	X	X	X
Sodium Chlorite	X	ACTIVE	X	X	X	X	X	X	X
Sodium Polyacrylate	X	ACTIVE	X		X	X	X	X	X
Cellulose, Methyl Ether	X	ACTIVE	X		X	X	X	X	X

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
Sodium Chlorite 7758-19-2	X	X	X

EPA Pesticide Registration Number EPA Reg. No. 88228-8-89112

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

XXX

Difference between SDS and EPA pesticide label

XXX

16. OTHER INFORMATION

Additional Product Information

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	2	3	2	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical hazards	Personal Protection
	2*	3	2	Not determined

Chronic Hazard Star Legend

** = Chronic Health Hazard*

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Revision Note: New format

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