



Safety Data Sheet

Issue Date: 01-Oct-2012

Revision Date: 19-May-2015

Version 1

1. IDENTIFICATION

Product Identifier

Product Name YCS CLEANER

Other means of identification

SDS # GOR06012015

Recommended use of the chemical and restrictions on use

Recommended Use Cleaner & Stain Remover.

Details of the supplier of the safety data sheet

Manufacturer Address

Your Crawl Space
10004 North Hwy 17
McClellanville, SC 29458

Emergency Telephone Number

Company Phone Number (877) 442-7295
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance: Clear liquid

Physical State: Liquid

Odor: Odorless

Classification

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

Signal Word

Danger

Hazard Statements

Causes severe skin burns and eye damage



Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

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: Rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

None know

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Hydrogen Peroxide	7722-84-1	<8
Proprietary		<1

**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

First Aid Measures

- General Advice** Provide this SDS to medical personnel for treatment.
- Eye Contact** 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.
- Skin Contact** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician. Wash contaminated clothing before reuse.
- Inhalation** 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.
- Ingestion** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects

- Symptoms** Causes severe skin burns and eye damage.

Indication of any immediate medical attention and special treatment needed

- Notes to Physician** Treat symptomatically.



5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Not determined.

Hazardous Combustion Products Oxygen.

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 protection recommended in Section 8. Keep unprotected persons away.

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 Dilute with a large volume of water and hold in a pond or diked area until hydrogen peroxide decomposes. Dispose of contents/container to an approved waste disposal plant.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Wear protective gloves/protective clothing and eye/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Do not store near combustible materials. Protect from sunlight. Store locked up.

Incompatible Materials Oxidizing agents. Reducing agents. Caustics. Heavy metals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen Peroxide 7722-84-1	TWA: 1 ppm	TWA: 1 ppm TWA: 1.4 mg/m ³ (vacated) TWA: 1 ppm (vacated) TWA: 1.4 mg/m ³	IDLH: 75 ppm TWA: 1 ppm TWA: 1.4 mg/m ³

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 Use standard chemical splash-type mono goggles or face shield with safety glasses if splashing is expected during handling of product.

Skin and Body Protection Rubber or neoprene footwear. Impervious clothing or apron materials such as rubber, neoprene, nitrile or polyvinyl chloride. Wear liquid proof rubber or neoprene gloves. Thoroughly rinse the outside of gloves with water prior.

Respiratory Protection Not required under normal conditions of use. If concentrations in excess of 10ppm are expected, use NIOSH/DHHS approved self-contained breathing apparatus (SCBA, or other approved atmospheric-supplied respirator (ASR) equipment. DO NOT use any form of air-purifying respirator (APR) or filtering face-piece (AKA dust mask), especially those containing oxidizable sorbents such as activated carbon.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash face, hands and any exposed skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Odorless
Appearance	Clear colorless liquid	Odor Threshold	Not determined
Color	Colorless		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	9.5	
Melting Point/Freezing Point	-3 °C / 27 °F	
Boiling Point/Boiling Range	101 °C / 214 °F	
Flash Point	Not determined	
Evaporation Rate	>1	(butyl acetate = 1)
Flammability (Solid, Gas)	Liquid- Not Applicable	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	31 mmHg	@30°C (86°F)
Vapor Density	Not determined	
Specific Gravity	1.01	(Water = 1) @ 20°C (68°F)
Water Solubility	100%	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

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.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Excessive heat. Contamination of any kind.

Incompatible Materials

Oxidizing agents. Reducing agents. Caustics. Heavy metals.

Hazardous Decomposition Products

Oxygen.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

Eye Contact Causes severe eye damage.

Skin Contact Causes severe skin burns.

Inhalation Avoid breathing vapors or mists.

Ingestion Do not ingest.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrogen Peroxide 7722-84-1	= 801 mg/kg (Rat)	= 2000 mg/kg (Rabbit) = 4060 mg/kg (Rat)	= 2 g/m ³ (Rat) 4 h
Proprietary Carbonate	= 1870 mg/kg (Rat)	-	-

Information on physical, chemical and toxicological effects

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

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrogen Peroxide 7722-84-1	A3	Group 3		

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrogen Peroxide 7722-84-1	2.5: 72 h Chlorella vulgaris mg/L EC50	18 - 56: 96 h Lepomis macrochirus mg/L LC50 static 10.0 - 32.0: 96 h Oncorhynchus mykiss mg/L LC50 static 16.4: 96 h Pimephales promelas mg/L LC50		18 - 32: 48 h Daphnia magna mg/L EC50 Static 7.7: 24 h Daphnia magna mg/L EC50

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

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
Hydrogen Peroxide 7722-84-1	Toxic Corrosive Ignitable Reactive

14. TRANSPORT INFORMATION

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

DOT Not determined

IATA Not determined

IMDG
Marine Pollutant This material may meet the definition of a marine pollutant



15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Hydrogen Peroxide	Present	X		Present		Present	X	Present	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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrogen Peroxide 7722-84-1		1000 lb	

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
Hydrogen Peroxide 7722-84-1	X	X	X

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	1	0	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	0	0	H

Issue Date: 01-Oct-2012
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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



Issue Date: 06-APRIL-2018

Revision Date:

Version 1

Safety Data Sheet

1. IDENTIFICATION

Product Identifier

Product Name YCS Activator

Other means of identification

SDS # AGOR102015

Recommended use of the chemical and restrictions on use

Recommended Use Cleaner & Stain Remover.

Details of the supplier of the safety data sheet

Manufacturer Address

Your Crawl Space
10004 North Hwy 17
McClellanville, SC 29458

Emergency Telephone Number

Company Phone Number (877) 442-7295
Emergency Telephone (24 hr.) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance: Clear

Physical State: Liquid

Odor: Odorless

Classification

Skin Corrosion	Category 1A
Eye Corrosion	Category 1
Serious eye damage/eye irritation	Category 1
Hazardous to the aquatic environment, acute	Category 3
Hazardous to the aquatic environment, long-term hazard	Category 3
Acute toxicity - oral	Category 3, Harmful if swallowed

Signal Word

Danger

Hazard Statements

Harmful if swallowed. Causes serious eye damage. Causes skin irritation. Harmful if inhaled. May cause respiratory irritation.

Environmental Hazard Statement(s)

Harmful to aquatic life.



Precautionary Statements - Prevention

Harmful or fatal if swallowed.

Causes severe eye injury.

Keep away from heat. Keep / store away from clothing and other combustible materials. Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

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

Avoid release to the environment.

Do not eat, drink or smoke when using this product.

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: Rinse mouth. Do NOT induce vomiting. Call a poison center or physician if you feel unwell.

Precautionary Statements - Storage

Store locked up. Store in well ventilated place.

Precautionary Statements - Disposal

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

Other Hazards

None know

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Potassium Hydroxide Liquid	1310-58-3	1 – 45%
Water	7732-18-5	55 -99%

**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

First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	IF IN EYES: Rinse cautiously with water for 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissues. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
Skin Contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician. Wash contaminated clothing before reuse.
Inhalation	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.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Give victim plenty of water to dilute stomach contents. If vomiting occurs, keep head low so that stomach contents doesn't get into the lungs. Get medical advice/attention if you feel unwell.

Most important symptoms and effects

Symptoms	Causes skin irritation. Respiratory irritation. Upper airway irritation, may cause cough, redness of mouth and upper airways. Eye irritation: exposure to eyes may cause severe irritation and redness to the eye lids, conjunctiva. There is potential for permanent and severe eye damage if not treated immediately. Gastrointestinal system effects: slightly toxic on ingestion. May be severely irritating to gastrointestinal tract possibly causing oral, esophageal redness, irritation, ulceration, edema, and stomach and intestinal irritation and burns. Ingestion of large quantities may cause ulceration, vomiting, shock, and death. Prolonged exposure may cause chronic effects.
Delayed Symptoms / Effects	Repeated or prolonged contact may result in dermatitis
Notes to Physician	Treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed. The absence of visible signs or symptoms of burns does NOT reliably exclude the presence of actual tissue damage. Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE-FIGHTING MEASURES

Fire Hazard	Negligible fire hazard.
Extinguishing Media	Use extinguishing medium as appropriate for surrounding fire.
Fire Fighting	Move container from fire area if it can be done without risk. Avoid inhalation of materials or combustible by-products. Stay upwind and keep out of low areas.
Hazardous Combustion Products	Oxides of carbon
Sensitivity to Mechanical Impact	Not sensitive
Sensitivity to Static Discharge	Not sensitive
Lower Flammability Level (air)	Not flammable
Upper Flammability Level (air)	Not flammable

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protection recommended in Section 8. Keep unprotected persons away. Keep people away from and upwind of spill/leak. Do not breathe mist or vapor. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Environmental Precautions	This material is harmful to aquatic life. Avoid discharge into drains, water courses or onto the ground.

Methods and material for Containment and cleaning up

The use of a low grade acid will accelerate the neutralization process. Solution should to pH 7.0. Follow local, state and federal regulations for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling

Provide adequate ventilation.
Wear protective gloves/protective clothing and eye/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Avoid prolonged exposure. Do not taste or swallow. When using do not eat, drink or smoke. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed and store in a cool, dry and well-ventilated place. Do not store near combustible materials. Protect from sunlight. Store locked up. Store away from incompatible materials (see Section 10 of this SDS).

Incompatible Materials

Acids, Lime, Prolonged contact with aluminum, brass, copper, lead, tin, zinc or other alkali sensitive metals or alloys.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Ventilation: General Exhaust

Personal Protection Equipment:

Dust Particle Filter, Plastic, Nitrile or Neoprene

Eye Protection: Glasses with side shields.

Chemical splash goggles.

CHEMICAL NAME	ACGIH	OSHA
Potassium Hydroxide	2mg/m ³	2mg/m ³

OEL: Occupational Exposure Limit; OSHA: United States Occupational Safety and Health Administration; PEL: Permissible Exposure Limit; TWA: Time Weighted Average; STEL: Short Term Exposure Limit

NON-REGUATORY EXPOSURE LIMIT(S): Listed below for the product components that have advisory (non-regulatory) occupational exposure limits (OEL's) established.

Component	CAS NUMBER	ACGIH TWA	ACGIH STEL	ACGIH CEILING	OSHA TWA (VACATED)	OSHA STEL (VACATED)	OSHA CEILING (VACATED)

The Non-Regulatory United States Occupational Safety and Health Administration (OSHA) limits, if shown, are the Vacated 1989 PEL's (vacated by 58 FR 35338, June 30, 1993).

The American Conference of Governmental Industrial Hygienists (ACGIH) is a voluntary organization of professional industrial hygiene personnel in government or educational institutions in the United States. The ACGIH develops and publishes recommended occupational exposure limits each year called Threshold Limit Values (TLVs) for hundreds of chemical, physical agents, and biological exposure indices.

Recommended Exposure Limits (REL's) are non-regulatory occupational exposure limits that the manufacturer has established based on health effects data.

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Appropriate engineering controls

Engineering Controls Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side-shields. If eye contact is likely, wear chemical resistant safety 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 washed before reuse. Wear appropriate chemical resistant gloves.

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.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash face, hands and any exposed skin thoroughly after handling. Keep from contact with clothing and other combustible materials. Remove and wash contaminated clothing promptly.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid
Appearance	
Color	Clear
<u>Property</u>	<u>Values</u>
pH 1%	13.0
Melting Point/Freezing Point	n/a
Boiling Point/Boiling Range	n/a
Flash Point	Not determined
Evaporation Rate	> 1 (butyl acetate = 1)
Flammability (Solid, Gas)	Not applicable
Upper Flammability Limits	Not applicable
Lower Flammability Limit	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not determined
Relative Density/Specific Gravity	1.45 @ 19 (°C) (water=1)
Water Solubility	100%
Solubility in other solvents	Not determined
Partition Coefficient	Not determined
Auto-ignition Temperature	Not determined
Decomposition Temperature	Not determined
Kinematic Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties	n/a
Hygroscopic	n/a

10. STABILITY AND REACTIVITY

Reactivity

Not reactivity under normal temperatures and pressures.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Avoid contact with lime.

Hazardous Polymerization: Hazardous polymerization does not occur.

Conditions to Avoid

None know

Incompatible Materials

Acids, Lime, flammable liquids, halogenated compounds, Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys.

Hazardous Decomposition Products

Not known

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

- Eye Contact** Contact with the eyes from this product could result into severe damage and possibly blindness.
- Skin Contact** Exposure to skin may cause skin burning. Long-term contact may cause blistering and skin damage.
- Inhalation** Inhalation of this material may cause upper airway irritation, cough, redness of mouth and upper airways. Long term contact asphyxiation could occur.
- Ingestion** Do not ingest. Harmful if swallowed. Large exposure could be fatal.
- Chronic Effects** Repeated or prolonged contact may result in dermatitis.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50

Signs and Symptoms of Exposure

Listed below:

Inhalation (Breathing): Respiratory Irritation: Upper airway irritation, may cause cough, redness of mouth and upper airways.

Skin: Skin Irritation: Exposure to skin may cause redness or irritation.

Eye: Eye Irritation: Exposure to eyes may cause severe irritation and redness to the eye lids, conjunctiva. There is potential for permanent and severe eye damage if not treated immediately.

Ingestion (Swallowing): Gastrointestinal Systems Effects: Slightly toxic on ingestion. May be irritating to gastrointestinal tract possibly causing oral, esophageal, glottis redness, irritation, ulceration, edema, and stomach and intestinal irritation and burns. Ingestion of large quantities may cause ulceration, vomiting, shock, and death.

Toxicity data: When in solution, this material will affect all tissues with which it comes in contact. The severity of the tissue damage is a function of its concentration, the length of tissue contact time, and local tissue conditions. After exposure there may be a time delay before irritation and other effects occur. This material is a strong irritant and is corrosive to skin, eyes and mucous membrane.

Summary of Health Effects:

SKIN: Immediate burning and possible blistering, long-term damage to the epidermis or dermis could be possible.

EYES: Potassium Hydroxide can cause permanent corneal damage resulting in severe damage and possibly blindness. This product is not classified as a carcinogen by NTP, IARC OR OSHA.

GHS HEALTH HAZARDS

Acute toxicity - ORAL	Category 3 - Harmful if swallowed.
Acute toxicity – Dermal	Category 1A
Contact hazard - eye	Category 1 – Causes serious eye damage
Contact hazard – skin	Category 1A – Causes skin irritation
Skin absorbent / dermal route?	No
Sensitization hazard	Not classified as a dermal sensitizer according to GHS criteria.
Carcinogenicity	This product is not classified as a carcinogen by NTP, IARC or OSHS.
Specific target organ toxicity (single exposure)	Category 3 –Respiratory tract irritation
Mutagenic data	Not classified as a mutagen per GHS criteria.
Developmental toxicity	Not classified as a developmental or reproductive toxin per GHS criteria.

12. ECOLOGICAL INFORMATION

Ecotoxicity Data

Aquatic Toxicity: This material is alkaline and may raise the pH of surface waters with low buffering capacity. This material has exhibited moderate toxicity to aquatic organisms.

Freshwater Fish Toxicity: LC50 (Mosquito fish): 80mg/L/96 hr. (static bioassay in fresh water at 18-19 degrees C). LC50 (Fathead Minnow): 179 mg/L/96 hr. (static at 22.3-24.7 degrees C).

Invertebrate Toxicity: EC50 (Daphnia magna): 60mg/L/48 hr. (static bioassay at 20.3-20.7 degrees C).

Algae Toxicity: ErC50 (selenastrum capricornutum): 61mg/L/96 hr. (static bioassay at 23-23.9 degrees C).

Fate and Transport: Biodegradation: This material will disassociate into ionic form in the aquatic environment. Natural carbon dioxide will slowly neutralize this material.

Persistence/Degradability

Believed not to persist in the environment.

Bioaccumulation

Believed not to bioaccumulate.

Mobility

Not determined

Other Adverse Effects

This material is harmful to aquatic life. May increase pH of waterways and adversely affect aquatic life.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations. Collect and reclaim or dispose in sealed containers at licensed waste site.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residual / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residuals. This material and its container must be disposed of in a safe manner (see Disposal instructions).
Contaminated packaging	Since emptied may retain product residual, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

U.S.A. DOT: Limited quantity item.

Hazard Class: 8

Hazard Number: UN-1814

Packaging group: PG II

Emergency Response Code: ERG#60

Labels Required: Limited quantity

Do not reuse container, dispose of
according to your local, state and federal

15. REGULATORY INFORMATION

U.S. REGULATIONS**OSHA REGULATORY STATUS**

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

CERCLA SECTIONS 102a HAZARDOUS SUBSTANCES (40 CFR 302.4)

Not regulated

SARA EHS Chemical (40 CFR 355.30)

Not regulated

EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.10)

Acute Health Hazard

EPCRA SECTION 313 (40 CFR 372.65)

Not regulated

DEPARTMENT OF HOMELAND SECURITY (DHS) – Chemical Facility Anti-Terrorism Standards (6 CFR 27)

No components in this material are regulated under DHS

OSHA PROCESS SAFETY (PSM) (40 CFR 1910.119)

Not regulated

FDA

This material has Generally Recognized as safe (GRAS) status under specific FDA regulations.

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 DSL or the NDSL.

STATE REGULATIONS**California Proposition 65:**

This product and its ingredients are not listed, but it may contain impurities/trace elements known to the State of California to cause cancer or reproductive toxicity as listed under Proposition 65 State Drinking Water and Toxic Enforcement Act.

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.

WHMIS – Classifications of Substances

D2B – Poisonous and Infectious Material; Materials causing other toxic effects –Toxic material.

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	3	0	0	
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	3	0	0	

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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