SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name	REGEN CC-28 MSC, 55 Gallon Drum
CAS number	See Section 3
Synonyms	Chlorate of soda; Chloric acid, sodium salt

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Laboratory Chemicals

1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

SECTION 2: Hazards identification

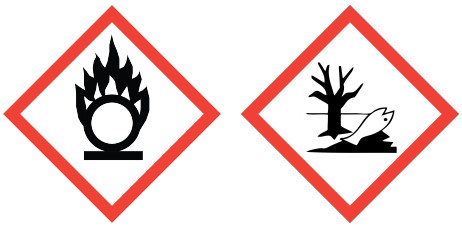
2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Oxidizing Liquid	Category 2
Aquatic Chronic	Category 2

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word: Danger

Hazard statements:
May intensify fire; oxidizer
Toxic to aquatic life with long lasting effects

Precautionary statements:
Keep away from heat, open flames, sparks. - No smoking
Keep/Store away from combustible materials, combustibles, clothing
Take any precaution to avoid mixing with combustible materials
Avoid release to the environment
Wear eye protection, protective clothing, protective gloves
In case of fire: Use appropriate media to extinguish
Collect spillage
Dispose of contents/container according to local, regional, national, and international regulations

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Not available

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Sodium chlorate	No information available	7775-09-09	10%
Sodium chloride	No information available	7647-14-5	0.04 - 1.4%
Sodium dichromate	No information available	10588-01-9	0.04 - 0.07%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled: When symptoms occur: go into open air and ventilate suspected area.

In case of skin contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes.

In case of eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If swallowed: Rinse mouth. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Inhalation of vapors may cause respiratory irritation. May cause skin irritation. Direct contact with the eyes is likely irritating. Ingestion is likely to be harmful or have adverse effects.

4.3 Indication of any immediate medical attention and special treatment needed

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media — Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media — Do not use water jet. Use of heavy stream of water may spread fire.

5.2 Specific hazards arising from the substance or mixture

May intensify fire; oxidizer. Will burn if exposed to heat, and in addition, will accelerate the burning of other combustibles, resulting in more rapid spread of fire. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. This substance is 'Oxidizing' therefore it will exhibit highly exothermic reactions when in contact with other substances, particularly flammable substances. Oxidizing activity increases with decreasing pH.

5.3 Special protective equipment and precautions for firefighters

Exercise caution when fighting any chemical fire. Fight fire remotely due to the risk of explosion. Do not enter fire area without proper protective equipment, including respiratory protection. Use water spray or fog for cooling exposed containers.

5.4 Further information

Flash Point — No information available

Autoignition Temperature — No information available

Explosion limits

Upper No data available
Lower No data available

Sensitivity to Mechanical Impact — On contact with combustible materials: Sensitive to mechanical impact

Sensitivity to Static Discharge — On contact with combustible materials: Static discharge could act as an ignition source.

NFPA

Health	Flammability	Instability	Physical Hazards
1	1	2	OX

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No naked lights. No smoking. Do not allow product to spread into the environment. Use appropriate personal protection equipment (PPE). Evacuate unnecessary personnel. Equip cleanup crew with proper protection. Ventilate area.

6.2 Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3 Methods and materials for containment and cleaning up

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Do not take up in combustible material such as: saw dust or cellulosic material. Collect spillage. Clear up spills immediately and dispose of waste safely.

6.4 Reference to other sections

See Section 8, Exposure Controls/Personal Protection.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Hazardous waste due to potential risk of explosion.

Hygiene measures

Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Proper grounding procedures to avoid static electricity should be followed. Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place.

Incompatibilities

See Section 10.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

No information available.

US. ACGIH Threshold Limit Values
No information available.

US. NIOSH: Pocket Guide to Chemical Hazards
No information available.

Biological occupational exposure limits
No information available.

8.2 Exposure controls

Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal protective equipment

Eye/face protection
Chemical goggles or safety glasses.

Skin protection
Clothing contaminated with sodium chlorate may become dangerously flammable and should not be allowed to dry (keep wet). Remove contaminated clothing and wash immediately immediately. Clothing and gloves worn in areas where chlorate is stored or used should be washed at the end of each work shift. Leather materials should be kept out of chlorate areas. Change clothing at end of each work shift or when contaminated.

Body Protection
Protective clothing and chemical goggles/safety glasses.

Respiratory protection
If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

Control of environmental exposure
No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Colorless yellow or green solution
Odor	Odorless
Odor Threshold	Not available

pH	7 – 10. Oxidizing activity increases with decreasing pH.
Melting Point/Range	248 °C (478.4°F)
Boiling Point/Range	265 °C (509°F) decomposes
Evaporation Rate	Not available
Flammability (solid)	Not available
Flammability or explosive limit	Not available
Upper	Not available
Lower	Not available
Vapor Pressure	0 Does not form vapor
Vapor Density	Not available
Density	Not available
Solubility	Not available
Partition coefficient; n-octanol/water	Log Pow -7.18 (estimated)
Autoignition Temp	Not available
Decomposition Temp	Not available
Viscosity	Not available
Molecular Formula	Not available
Molecular Weight	Not available
VOC Content(%)	Not available
Oxidizing properties	Not available
	Not available

9.2 Other safety information

SECTION 10: Stability and reactivity

10.1 Reactivity

‘Oxidizing’: substances and preparations which exhibit highly exothermic reactions when in contact with other substances, particularly flammable substances. Oxidizing activity increases with decreasing pH.

10.2 Chemical stability

May intensify fire; oxidizer. May undergo violent chemical changes at elevated temperature and pressure. Thermal decomposition occurs at temperatures above 482°F (250°C).

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4 Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Overheating. Open flame. combustible materials.

10.5 Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

10.6 Hazardous decomposition products

Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium chlorate	Rat: 1200 mg/kg	Not listed	Rat (mg/l): > 28 g/m3 (Exposure time: 1 h)
Sodium chloride	Rat: 3 g/kg	Not listed	Rat (mg/l): > 42 g/m3 (Exposure time: 1 h)
Sodium dichromate	Rat: 50 mg/kg	Rabbit: 336 mg/kg	Rat (mg/l): 0.124 mg/l/4h

Skin corrosion/irritation

May cause skin irritation.

Serious eye damage/eye irritation

Direct contact with the eyes is likely irritating.

Respiratory or skin sensitization

Not classified

Germ cell mutagenicity

Not classified

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Sodium dichromate	10588-01-9	Group 1	Not available	Not available	Not available	Not available
Sodium chlorate	7775-09-9	Not available	Evidence of Carcinogenicity	Not available	Not available	Not available

Specific target organ toxicity - single exposure

Not classified

Specific target organ toxicity - repeated exposure

Not classified

Reproductive toxicity
Not classified

Chronic effects
None known

11.2 Additional Information
No information available.

SECTION 12: Ecological information

12.1 Toxicity
Toxic to aquatic life with long lasting effects.

Component	Freshwater Fish	Water Flea
Sodium chlorate	13500 mg/l (Exposure time: 96 h - Species: Pimephales promelas) 1750 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)	Not listed
Sodium chloride	5560 (5560 - 6080) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through]) 12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna) 340.7 (340.7 - 469.2) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
Sodium dichromate	33.2 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) 69 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])	0.098 - 0.129 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2 Persistence and degradability
Not established. May cause long-term adverse effects in the environment.

12.3 Bio accumulative potential

Not established for Sodium Chlorate Solution (Cell liquor blend) but Sodium chloride has no bioaccumulation.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Hazardous waste due to potential risk of explosion. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: Transport information

DOT (US)

UN Number	UN2428
Proper Shipping name	SODIUM CHLORATE, AQUEOUS SOLUTION
Hazard Class	5.1
Packaging Group	III

IMDG

UN Number	UN2428
Proper Shipping name	SODIUM CHLORATE, AQUEOUS SOLUTION
Hazard Class	5.1
Packaging Group	III

IATA

UN Number	UN2428
Proper Shipping name	SODIUM CHLORATE, AQUEOUS SOLUTION
Hazard Class	5
Packaging Group	III

SECTION 15: Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Sodium Chlorate, Sodium Chloride, and Sodium Dichromate are listed.

CERCLA Hazardous Substance List (40 CFR 302.4)
No information available.

SARA 304 Emergency release notification
No information available.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
No information available.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance
No information available.

SARA 311/312 Hazardous
No information available.

SARA 313 (TRI reporting)
No information available.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
No information available.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
No information available.

Safe Drinking Water Act
No information available.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace
No information available.

US state regulations

US. Massachusetts RTK - Substance List
Sodium Chlorate and Sodium Dichromate are listed as RTK.

US. New Jersey Worker and Community Right-to-Know Act
Sodium Chlorate and Sodium Dichromate are listed as RTK.

US. Pennsylvania Worker and Community Right-to-Know Law
Sodium Chlorate and Sodium Dichromate are listed as RTK.

California Proposition 65
No information available.

SECTION 16: Other information

Date of Issue: 12/18/2025

SECTION 17: Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.