



Alphacide 30K

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 04/22/2013

Supersedes: 04/05/2012

Version: 2.0

SECTION 1: Identification of the Substance/mixture and of the Company/undertaking

Product Identifier

Product form: Mixture

Substance name: Alphacide 30K

CAS No.: 7758-19-2

Formula: ClNaO_2

Synonyms: Sodium Chlorite, Chlorine Dioxide, Oxychlorine Compounds

Intended Use Of The Product

Use of the substance/mixture: Cleaning Agent

Name, Address, And Telephone Of The Responsible Party

Alpha Technology USA Corp.

5401 Pen Avenue

Sanford, FL 32773

1.

Emergency telephone number

Emergency number : CONTACT: CHEMTREC
(800)-424-9300

SECTION 2: Hazards Identification

Classification of the substance or mixture

GHS-US classification

GHS: PHYSICAL HAZARD(S): Oxidizing Solid - Category 2

GHS: CONTACT HAZARD - EYE: Category 1 - Irreversible eye effect

GHS: CONTACT HAZARD - SKIN: Category 2 - Causes skin irritation

GHS: ACUTE TOXICITY - DERMAL: Not rated due to corrosivity

GHS: ACUTE TOXICITY - INHALATION: Not rated due to corrosivity

GHS: ACUTE TOXICITY - ORAL: Category 4 - Harmful if swallowed

GHS: TARGET ORGAN TOXICITY (SINGLE EXPOSURE): Category 2 - May cause damage to: Respiratory system, blood, and kidney

GHS: TARGET ORGAN TOXICITY (REPEATED EXPOSURE): Category 2 - May cause damage to heart and blood system through prolonged and or repeated exposure

GHS: HAZARDOUS TO AQUATIC ENVIRONMENT - ACUTE HAZARD: Category 3 - Harmful to aquatic life

Label elements

GHS-US labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

Hazard Statements

: H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

H371 - May cause damage to respiratory system, blood, and kidneys

H373 - May cause damage to heart and blood systems through prolonged or repeated exposure

H341 - Suspected of causing genetic defects

H272 - May intensify fire; oxidizer

Alphacide 30K

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Precautionary statements	: P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking P220 - Keep/ Store away from clothing and other combustible materials P221 - Take any precaution to avoid mixing with combustibles, acids, chlorine or organic material : P280 - Wear protective gloves/protective clothing P264 - Wash hands thoroughly after handling P270 - Do not eat, drink or smoke when using this product P260 - Do not breathe dust P273 - Avoid release to the environment P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood P370 + P378 - In case of fire: Use extinguishing agents appropriate for surrounding fire P301 + P312 - IF SWALLOWED, Call a POISON CENTER or doctor/physician if unwell P305 + P351 + P338 - IF IN EYES - Rinse cautiously with water for several minutes. Remove contact lenses, if present, and continue rinsing. P302 + P352 - IF ON SKIN: Wash with plenty of soap and water P321 - Specific treatment (see First Aid information on product label) P332 + P313 - If skin irritation occurs: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse P405 - Store in a secure manner P501 - Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations
---------------------------------	---

Other hazards

No additional information available

Unknown acute toxicity (GHS US) No data available

SECTION 3: Composition/information on Ingredients

Substances

Name	Product Identifier	%	GHS-US classification
Sodium Chlorite	(CAS No.) 7758-19-2	5.35%	See Above List

Full text of H-phrases: see section 16

SECTION 4: First Aid Measures

Description of first aid measures

First-aid measures general: The following procedures are recommended as emergency first aid only. They are not intended to replace or supplant the treatment advice of a physician or other authorized health care specialist.

First-aid measures after inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably CPR. Call a poison control center or doctor for further treatment advice.

First-aid measures after skin contact: Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment and advice.

First-aid measures after eye contact: Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Sip a glass of water if able to swallow.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries: Eye irritation.

Symptoms/injuries after inhalation: May cause dizziness.

Symptoms/injuries after eye contact: Causes serious eye irritation.

Symptoms/injuries after ingestion: Ingestion may cause nausea, vomiting and diarrhea.

Indication of any immediate medical attention and special treatment needed

If medical advice is needed, have product container or label at hand. Chlorine dioxide vapors are emitted when this product contacts acids or chlorine. If these vapors are inhaled, monitor patient closely for delayed development of pulmonary edema.

SECTION 5: Firefighting Measures

Extinguishing media

Suitable extinguishing media: Dry chemical, alcohol foam, carbon dioxide.

Unsuitable extinguishing media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

Special hazards arising from the substance or mixture

Fire hazard: Highly flammable liquid and vapour.

Explosion hazard: May form flammable/explosive vapour-air mixture.

Reactivity: Reacts with chloroform and bromoform under basic conditions, causing fire and explosion hazard. Ignites on contact with the chloride.

Advice for firefighters

Firefighting instructions: Exercise caution when fighting any chemical fire.

Protection during firefighting: Firefighters should wear full protective gear. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

General Measures: All spills and leaks involving more than 10 gallons should be reported to the nearest regional EPA office or designated state emergency response office within 24hrs. Spills from open vessels or which may contaminate U.S. coastal waterways should be reported to the nearest Coast Guard Office within 24hrs,

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Environmental precautions: Prevent entry to sewers and public waters

Methods and material for containment and clean-up

For Containment: DO NOT use floor sweeping compounds to clean up spills. Dampen and scoop spilled material into clean, dedicated equipment. Do not dry sweep. Every attempt should be made to avoid mixing spilled material with other chemicals or debris when cleaning up. Keep collected material damp and put into drums. Dispose promptly.

Methods for cleaning up: Small spills involving less than 10 gallons, may be flushed to a designated and permitted sewer system with the amount of water that is about 10 times the amount of the spill. Large spills, involving 10 gallons or more, should be contained and neutralized using any one of the three neutralizers: i) sodium sulfite, ii) sodium bisulfite, or iii) sodium thiosulfate. The neutralization reaction can be extremely exothermic, and therefore, care should be taken to add the neutralizer in small increments. Sodium sulfite is the most preferred neutralizer that can be used in the ratio of 1.5lb per gallon of spilled material. Sodium thiosulfate can be used in the ratio of 2lbs of anhydrous salt or 4lbs of pentahydrate salt per estimated gallon of the spilled material. The neutralized solution can then be flushed to a designated and permitted sewer system with double the amount of water. The product cannot be neutralized, volumes larger than 10 gallons should be carefully transferred into a container and taken to an authorized chemical disposal site (class 1 or landfill) in accordance with all federal, state, and local regulations.

The vicinity of the spill should be thoroughly flushed with water after clean-up occurs. At no time should the spilled material be allowed to dry to a crystalline salt. Do not discharge this product to storm drains or to any surface or groundwater source.

SECTION 7: Handling and Storage

Precautions for safe handling

Precautions for safe handling: Use product only as directed by label. Avoid contact with skin and eyes; avoid breathing vapors or fumes resulting from product activation. Wash thoroughly after handling. Rinse all protective gear and handling equipment. Keep away from children, animals, and unauthorized personnel.

Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, dry, well-ventilated location away from acids, chlorine, and chlorine compounds, hypochlorites (bleach), organic solvents, sulfur and sulfite compounds, phosphorus, combustible/flammable materials, and direct sunlight. Keep containers tightly closed when not in use and open carefully to prevent spillage. Storage on wooden floors and pallets is not recommended. Do not contaminate water, food or feed by storage or disposal.

Incompatible products: Do not contaminate with acids, reducing agents, combustible materials, oxidizing materials, hypochlorite, organic solvents and compounds, garbage, dirt, organic matter, household products, chemicals, soap products, paint products, vinegar, beverages, oils, pine oil, dirty rags, sulfur-containing rubber, or any other foreign matter. Do not drop, roll, or skid drums.

SECTION 8: Exposure Controls/Personal Protection

Control Parameters

Guideline Type:	OSHA PEL-TWA
Guideline Information:	None Established
Guideline Type:	ACGIH TLV-TWA
Guideline Information:	None Established

Exposure Controls

Appropriate Engineering Controls	: Open air or good room ventilation is normally adequate for safe use of this product. Avoid breathing any vapors or fumes from acid activation.
Personal protective equipment	: Product should be stored and applied in close proximity to a safety shower, chemical eyewash station, or other fresh water source
Hand protection	: At minimum, wear rubber, neoprene, or other chemically impervious gloves at all at all applications involving chemical handling.
Eye protection	: Use of chemical safety goggles for all applications involving chemical handling.
Respiratory protection	: Be sure to consider all potential exposures in your workplace. You may need a combination of filters, prefilters, or cartridges to protect against different forms of a chemical (such as vapor and mist) or against a mixture of chemicals.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state	: liquid
Appearance	: clear liquid
Colour	: colorless
Odour	: faint chlorinous
Odour threshold	: no data available
pH	: 8.0-8.5
Relative evaporation rate	: comparable to water
Melting point	: not determined
Freezing point	: not determined
Boiling point	: 213°F (100.5°C)
Flash point	: not applicable
Auto-ignition temperature	: no data available
Decomposition temperature	: no data available
Vapour pressure	: not applicable
Relative vapor density	: not applicable
Density	: 0.02kg/m ³
Solubility	: complete

No additional information is available

SECTION 10: Stability and Reactivity

Chemical Stability : stable
Possibility of Hazardous Reactions : Exposure to acids or chlorine compounds can produce uncontrolled generation of chlorine dioxide gas.

Conditions to Avoid : Avoid storing product under conditions in which it could evaporate to crystalline salt. Avoid accidental contact of concentrate with acids, chlorine compounds, hypochlorites (bleach), sulfur and sulfite compounds, phosphorous, organic solvents and combustible/flammable material.

Hazardous Decomposition Products : Chlorine dioxide is formed on contact with acids, Thermal decomposition products Include chlorine and oxides of sodium.

SECTION 11: Toxicological Information

Information on toxicological effects

LD50 Oral (rat): >4,360 mg/kg
LD50 Dermal (rabbit): > 2,020 mg/kg
LD50 Inhalation (rat): >5.61 mg/l

Skin corrosion/irritation: May cause mild irritation

Serious eye damage/irritation: May cause mild eye irritation. If solution gets in eye, wash out immediately with cold water.

Respiratory or skin sensitivity: May cause mild skin irritation. If prolonged exposure the risk heightens.

Carcinogenicity: Not classified

Reproductive Toxicity: Has been shown to cause reproductive disorders in laboratory animals

Specific target organ toxicity (single exposure): Exposure to the dust particles of this product may cause irritation to the respiratory system. Harmful if swallowed.

Aspiration hazard: Category II mild irritant

Symptoms/injuries after inhalation: May cause dizziness

Symptoms/injuries after eye contact: Causes eye irritation

Symptoms/injuries after ingestion: Call poison control. May cause nausea or vomiting.

SECTION 12: Ecological Information

Toxicity

Fish Toxicity.....TL50 (48 hours, Daphnia Magna): 0.29mg/L

Biodegradability.....Sodium chlorite in water will eventually degrade to sodium chloride.

Sodium chlorite in contact with acidic soil could produce chlorine dioxide.

Environmental Effects.....This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into bodies of water unless in accordance with federal and/or provincial law

Mobility in soil.....No additional information

Other adverse effects.....Avoid release to environment unless in accordance with the requirements of NPDES

SECTION 13: Disposal Considerations

Waste Treatment Methods

Regional legislation (waste): If a user of sodium chlorite discharges wastewater effluent, not to waters of the U.S. but to a Publicly Owned Treatment Works (POTW) or Sewer Authority, then the user will need a permit from the POTW which will set concentration limits for pollutants in the wastewater stream. Effluent levels are based on a variety of standards, but must meet established EPA Pretreatment Standards. Pretreatment Standards are established on an industry specific basis.

Waste disposal recommendations: Small quantities, less than 10 gallons, may be flushed to an authorized and permitted sewer with copious amounts of water (10 times that of the spill). Larger volumes should be taken to an authorized chemical disposal site (class I or landfill) in accordance with all federal, state, and local regulations. Consult with selected facility regarding the need for Prior neutralization of waste.

Container Disposal: Triple rinse then offer for recycling or reconditioning; or puncture and dispose of in a sanitary landfill; or by incineration.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

SECTION 14: Transport Information

In accordance with ICAO/IATA/DOT/TDG

UN No: : UN1496
Packing Group: : II
Proper Shipping Name or Technical Name : CHLORITE SOLUTION
Hazchem or Emergency Action Code : Not Available

SECTION 15: Regulatory Information

US Federal Regulations

CERCLA

This product contains no CERCLA listed chemicals.

SARA TITLE III SECTION 311/312 HAZARD CLASS

Non - Hazardous

SARA TITLE III SECTION 313 CHEMICALS

This product contains no substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) or 40 CFR Part 372 in concentrations above the minimum concentration level.

TSCA

All components of this product are listed or excluded from listing on the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory. Commercial use of this material is regulated by the EPA

State or local regulations

California: Not regulated under the provisions of Proposition 65

New Jersey: Sodium Chlorite is listed under NJAC 7:1Z. Estimated release notification, however, is not required.

SECTION 16: Other information

Indication of changes : 11/13/13

Other information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

NFPA Hazard Classification :

Health : 1

Flammability : 0

Reactivity : 1

Special Hazards : None

Notice : Manufacturer believes the information contained herein is accurate; however we make no guarantees with respect to such accuracy and assume no liability in connection with the use of the information contained herein by any party. Any party using this product should review all such laws, rules, or regulations prior to use