



SAFETY DATA SHEET

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Kloro White 16

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS Standards

SECTION 1 - IDENTIFICATION

1.1 TRADE NAME:	Kloro White 16
SYNONYMS:	None
CAS#:	None
1.2 PRODUCT USE:	Laundry Bleach
1.3 SUPPLIER/MANUFACTURER'S NAME:	Savin Products Company, Inc.
ADDRESS:	214 High Street, Randolph, MA 02368 USA
BUSINESS PHONE:	(781) 961-2744
EMAIL:	info@savinproducts.com
WEB SITE INFORMATION:	www.savinproducts.com
1.4 EMERGENCY PHONE NUMBERS:	1 (800) 424-9300 (CHEMTREC U.S. - 24 HRS.)

SECTION 2 - HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

Product Description: This product is a white granular powder with a chlorine/bleach odor.

Health Hazards: Corrosive. Exposure to this product can cause severe irritation to eyes. Inhalation of dust/mist may cause severe irritation to mucous membranes and respiratory tract.

Flammability Hazards: This product has a flash point greater than 200°F (93.3°C).

Reactivity Hazards: This product is not reactive under dry, ambient temperatures.

Environmental Hazards: The environmental effects of this product have not been fully investigated.

Emergency Considerations: Emergency responders must wear the proper personal protective equipment (and have appropriate fire-suppression equipment) suitable for the situation to which they are responding.

US DOT SYMBOLS

CANADA (WHMIS) SYMBOLS

GHS Hazard Symbols

Non-Regulated

Complies with WHMIS 2015



Signal Word: **Warning!**

2.1 GHS LABELING AND HAZARD CLASSIFICATION:

This product does meet the definition of a hazardous substance or preparation as defined by the OSHA and described in 29 CFR 1910.1200(d).

Component(s) Contributing to Classification(s):

Sodium Dichloroisocyanurate, Dihydrate (CAS#51580-86-0)

2.2 LABEL ELEMENTS

GHS Hazard Classification(s):

Acute toxicity, Oral - Category 4

Eye damage/irritation - Category 2A

STOT- SE - Category 3

Acute aquatic toxicity - Category 1

Chronic aquatic toxicity - Category 1

Hazard Statement(s):

Harmful if swallowed.
 Causes serious eye irritation.
 May cause respiratory irritation.
 Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
 Wash skin thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Avoid release to the environment.
 Wear eye protection/ face protection

Response Statement(s):

IF SWALLOWED: Call a Poison Control Center/Doctor.
IF SWALLOWED: Rinse mouth. Do **NOT** induce vomiting.
IF ON SKIN: Wash with plenty of water.
 If skin irritation or rash occurs: Get medical advice/attention.
 Take off contaminated clothing and wash it before reuse.
 Call a Poison Center/Doctor if you feel unwell.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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 attention.

Storage Statement(s):

Store in a well-ventilated place. Keep cool.
 Store locked up.

Disposal Statement(s):

Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 HEALTH HAZARDS OR RISKS FROM EXPOSURE:

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of overexposure for this product are by contact with skin or eyes, and inhalation of dust, mists or spray. The symptoms of overexposure are described in the following paragraphs.

ACUTE:

INHALATION: Inhalation of dust/mist from this product causes severe irritation to mucous membranes and respiratory tract.
SKIN CONTACT: Exposure to this product can cause skin irritation. Prolonged exposure can cause severe irritation.
EYE CONTACT: Contact with eyes can cause serious irritation with redness, tearing, and pain. Possible corneal damage.
INGESTION: Ingestion may cause gastric distress and nausea. Can result in damage to mouth, throat, esophagus and stomach.

CHRONIC: The effects of long term, low level exposures to this product have not been determined.

TARGET ORGANS: **ACUTE:** Eyes, Respiratory, Skin **CHRONIC:** No data available for this product.

SECTION 3 - COMPOSITION and INFORMATION ON INGREDIENTS

COMPOSITION	WT. PERCENTAGE	CAS #	HAZARD CLASSIFICATION
Sodium Chloride	65-75%	7647-14-5	None
Sodium Dichloroisocyanurate, Dihydrate	25-35%	51580-86-0	Acute toxicity, Oral - Cat 4, Eye damage/irritation - Cat 2A, STOT SE - Cat 3, Acute aquatic toxicity - Cat 1, Chronic aquatic toxicity - Cat 1
Balance of other ingredients are less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers)			

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format.

SECTION 4 - FIRST-AID MEASURES**4.1 DESCRIPTION OF FIRST AID MEASURES:**

EYE CONTACT: If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation persists.

SKIN CONTACT: Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before re-use.

INHALATION: If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.

INGESTION: If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and SDS with the victim to the health professional.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

4.2 SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Contact with eyes may cause severe irritation with redness and tearing with possible tissue damage. Prolonged skin exposure may cause moderate to severe skin irritation.

4.3 RECOMMENDATIONS TO PHYSICIANS:

Treat symptoms and eliminate overexposure.

SECTION 5 - FIRE-FIGHTING MEASURES

5.1 FIRE EXTINGUISHING MATERIALS:

Use fire extinguishing methods below:

Water Spray: Yes

Foam: Yes

Halon: Yes

Carbon Dioxide: Yes

Dry Chemical: Do not use dry chemical extinguisher containing ammonia compounds.

Other: Any "C" Class

5.2 UNUSUAL FIRE AND EXPLOSION HAZARDS:

Product decomposes to form poisonous and corrosive fumes of nitrogen trichloride, chlorine gas and carbon monoxide. Use NIOSH approved canisters for chlorine. Remove any containers to open air and flood with water.

Explosion Sensitivity to Mechanical Impact: No

Explosion Sensitivity to Static Discharge: No

FLASH POINT: >200°F (>93°C)

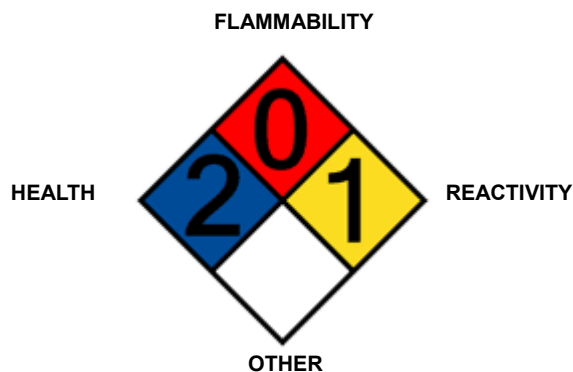
AUTOIGNITION TEMPERATURE: Not applicable.

FLAMMABLE LIMITS (in air by volume, %): Lower: NA, Upper: NA

5.3 SPECIAL FIRE-FIGHTING PROCEDURES:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

NFPA RATING SYSTEM



HMIS RATING SYSTEM

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)			2
FLAMMABILITY HAZARD (RED)			0
PHYSICAL HAZARD (YELLOW)			1
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	See Sect 8		See Sect 8
For Routine Industrial Use and Handling Applications			

Hazard Scale: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe, *=Chronic Hazard

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:

See Section 8.2 for Exposure Controls.

6.2 ENVIRONMENTAL PRECAUTIONS:

Keep spilled material out of all sewers and open bodies of water.

6.3 SPILL AND LEAK RESPONSE:

Contain spill if safe to do so. Cover or absorb spilled liquid with sand, earth, or other inert material. Clean up spill immediately and place in appropriate containers. Keep spill out of sewers and open bodies of water.

Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13 Disposal Considerations).

SECTION 7 – HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from heat.

7.2 STORAGE AND HANDLING PRACTICES:

Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Do not store near acids. Moisture sensitive.

7.3 SPECIFIC USES:

Laundry Bleach

SECTION 8 – EXPOSURE CONTROLS – PERSONAL PROTECTION

8.1 EXPOSURE PARAMETERS:

CHEMICAL NAME	CAS#	ACGIH TLV	OSHA TWA
Sodium Chloride	7647-14-5	Not Listed	Not Listed
Sodium Dichloroisocyanurate Dihydrate	51580-86-0	Not Listed	Not Listed

8.2 EXPOSURE CONTROLS:

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada.

RESPIRATORY PROTECTION: Not required when using this product. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93.

EYE PROTECTION: Safety glasses or goggles are recommended when splashing is unavoidable. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Standards of Canada.

HAND PROTECTION: Chemical resistant gloves are recommended to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standard of Canada.

BODY PROTECTION: Not normally required when using this protect. If necessary, refer to U.S. OSHA 29 CFR 1910.132 (also OSHA Technical Manual), or appropriate Standard of Canada.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE (PHYSICAL STATE) AND COLOR: A white granular powder

ODOR: Mild chlorine

ODOR THRESHOLD: Not available.

PH: 8 (1% aqueous solution)

MELTING/FREEZING POINT: Not applicable.

BOILING POINT: Not applicable.

FLASH POINT: Not applicable.

EVAPORATION RATE (n-BuAc=1): Not available.

FLAMMABILITY (SOLID, GAS): Not available.

UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMITS: Not available.

VAPOR PRESSURE (mm Hg @ 68°F (20°C)): Not available.

VAPOR DENSITY: Not available.

RELATIVE DENSITY: Not available.

SPECIFIC GRAVITY: Not available.

SOLUBILITY IN WATER: 25% in solution

WEIGHT PER GALLON: Not applicable

PARTITION COEFFICIENT (n-octanol/water): Not applicable.

AUTO-IGNITION TEMPERATURE: Not applicable.

DECOMPOSITION TEMPERATURE: 240 - 250C.

VISCOSITY: Not applicable.

9.2 OTHER INFORMATION:

No additional information available.

SECTION 10 – STABILITY AND REACTIVITY

10.1 REACTIVITY:

Begins to lose water at approximately 50C.

10.2 STABILITY:

Stable under normal conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

If this material becomes damp/wet or contaminated in a container, the formation of nitrogen trichloride gas may occur and an explosive may exist.

10.4 CONDITIONS TO AVOID:

Heating above decomposition temperature.

10.5 MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:

Ammonia, organic materials, nitrogen containing materials, other oxidizers, acids, bases, oils, grease, sawdust, dry fire extinguishers containing monoammonium compounds, combustible and reducing agents.

10.6 HAZARDOUS DECOMPOSITIONS PRODUCTS:

Nitrogen trichloride, chlorine, carbon monoxide.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

No LD50 or LC50 found for oral, dermal or inhalation routes of administration.

SUSPECTED CANCER AGENT: The following ingredients are found on one or more of the following lists: **FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC** and therefore are considered to be, or suspected to be, a cancer-causing agent by these agencies.

None.

IRRITANCY OF THE PRODUCT: Contact with this product can be severely irritating to exposed skin and eyes.

SENSITIZATION TO THE PRODUCT: This product is not considered a skin and respiratory sensitizer.

REPRODUCTIVE TOXICITY INFORMATION: This product does not contain an ingredient that may cause reproductive and fetal effects.

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE: Is classified as a specific target organ toxicity – single exposure.

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE: Not classified as a specific target organ toxicity – repeated exposure.

CHRONIC EFFECTS: The effects of long term, low level exposures to this product have not been determined.

SECTION 12 – ECOLOGICAL INFORMATION

12.1 TOXICITY:

Toxic to aquatic life. Do not discharge to streams, ponds or waterways. See below for individual ingredient ecotoxicity data.

Sodium Dichloroisocyanurate (CAS#51580-86-0):

LC50/96h (Rainbow trout) – 0.22 mg/L

LC50/96h (Bluegill sunfish) – 0.28 mg/L

LC50/48h (Daphnia magna) – 0.2 mg/L

12.2 PERSISTENCE AND DEGRADABILITY:

No specific data available for this mixture.

12.3 BIOACCUMULATIVE POTENTIAL:

No specific data available for this mixture.

12.4 MOBILITY IN SOIL:

No specific data available for this mixture.

12.5 OTHER ADVERSE EFFECTS:

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS:

This product, if disposed of as shipped, is not considered a hazardous waste as specified in 40 CFR 261.

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, and those of Canada.

SECTION 14 – TRANSPORTATION INFORMATION

14.1 U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation as follows:

A non-regulated material.

14.2 UN IDENTIFICATION NUMBER:

Not applicable.

14.3 PROPER SHIPPING NAME:

Not applicable.

14.4 HAZARD CLASS NUMBER AND DESCRIPTION:

Non-regulated material.

14.5 PACKING GROUP:

Not applicable.

DOT LABELS REQUIRED:

Not applicable.

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER:

Not applicable.

14.6 ENVIRONMENTAL HAZARDS (RQ QUANTITY):

Not applicable.

MARINE POLLUTANT: The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

14.7 SPECIAL PRECAUTION FOR USER:

Use caution and avoid exposure.

14.8 INTERNATIONAL TRANSPORTATION:

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA): This product is not considered as dangerous goods.

Note: Packaging does not comply with IATA regulations and cannot be shipped by aircraft.

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is not considered as dangerous goods.

SECTION 15 – REGULATORY INFORMATION

15.1 SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

See below

15.2 UNITED STATES REGULATIONS:

SARA REPORTING REQUIREMENTS: This product is not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

TSCA: All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

SARA 311/312:

ACUTE HEALTH: YES

CHRONIC HEALTH: NO

FIRE: YES

REACTIVITY: YES

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): None.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product does contain ingredients that are on the California Proposition 65 lists.

15.3 CANADIAN REGULATIONS:

CANADIAN DSL/NDLS INVENTORY STATUS: All components are DSL listed, NDSL listed, and/or are exempt from listing.

OTHER CANADIAN REGULATIONS: Not applicable.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LIST: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

CANADIAN WHMIS CLASSIFICATION AND SYMBOLS: This product is categorized as a Controlled Product, not classified as per the Controlled Product Regulations.

SECTION 16 – OTHER INFORMATION

16.1 ABBREVIATIONS AND ACRONYMS:

EPA: United State Environmental Protection Agency

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

DATE OF CURRENT REVISION: March 12, 2015

DATE OF LAST REVISION: March 12, 2015

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