1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	**Ship Shape Ultra Concentrated Bleach Tablets- Original Scent**
	For King Research, Inc.
UN-No	UN2465

Recommended Use	Bleach.

Supplier Address

King Reseach
7025 West Marcia Rd.
Milwaukee, WI 53223

Phone: 610-551-9500 Contact: Frank Terranova- Technical needs
Contact Phone: 610-551-9500; 219-324-0800 Fax 219-324-0805; 574-358-0095
Emergency Phone: 610-551-9500 24 hr Day 219-324-0800

Company Emergency Phone Number	610-551-9500 24 hr; 219-324-0800 Day

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview

Oxidizer
Risk of serious damage to eyes
Harmful if swallowed
Irritating to eyes
Irritating to skin

Appearance White

Physical State Solid, Solid, powder.

Odor Chlorine

Potential Health Effects

Principle Routes of Exposure	Eye contact. Skin contact.

Acute Toxicity		
	Eyes	Risk of serious damage to eyes.
	Skin	Irritating to skin.
	Inhalation	Irritating to respiratory system.
	Ingestion	Harmful if swallowed. Ingestion may cause irritation to mucous membranes.

Chronic Effects	No known effect based on information supplied.

Aggravated Medical Conditions	None known.

Environmental Hazard	See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Sodium dichloroisocyanurate dihydrate	51580-86-0	60-100
Citric acid monohydrate	5949-29-1	1-10
Sodium Bicarbonate	144-55-8	1-10

4. FIRST AID MEASURES

Eye Contact	In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Call a physician immediately.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Inhalation	Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. If symptoms persist, call a physician.
Ingestion	Call a physician immediately. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Drink plenty of water.
Notes to Physician	Keep victim warm and quiet. Treat symptomatically.
Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Oxidizer.
Flash Point	Not determined.
Suitable Extinguishing Media	Use water. Do not use dry chemicals or foams. CO_2 or Halon may provide limited control. Flood fire area with water from a distance. Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out.
Uniform Fire Code	• Irritant: Solid • Oxidizer: Class 2--Solid
	This product contains a Class 2 Oxidizer as defined by the Uniform Fire Code
Hazardous Combustion Products	Chlorine compounds. Carbon oxides.

Explosion Data		
	Sensitivity to Mechanical Impact	No.
	Sensitivity to Static Discharge	No.

Specific Hazards Arising from the Chemical
These substances will accelerate burning when involved in a fire. Some may decompose explosively when heated or involved in a fire. May ignite combustibles (wood paper, oil, clothing, etc.). Runoff may create fire or explosion hazard.

Protective Equipment and Precautions for Firefighters
Do not move cargo or vehicle if cargo has been exposed to heat. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed in fire. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA	
	Health Hazard 3
	Flammability 0
	Stability 1
	Physical and Chemical Hazards OX

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk.
Environmental Precautions	Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Refer to protective measures listed in Sections 7 and 8.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Use personal protective equipment. Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.
Other Information	Keep combustibles (wood, paper, oil, etc) away from spilled material. DO NOT GET WATER INSIDE CONTAINERS.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Do NOT mix with acids Keep away from clothing and other combustible materials
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children. Oxidizers must be seperated from flammables by at least 20 feet (or fire wall).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Engineering Measures	Showers Eyewash stations Ventilation systems

Personal Protective Equipment		
	Eye/Face Protection	Tightly fitting safety goggles.
	Skin and Body Protection	Protective gloves.
	Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White.	
	Odor	Chlorine.
Odor Threshold	No information available.	
	Physical State	Solid Solid, powder
pH	No information available	
Flash Point	No information available.	
	Autoignition Temperature	No information available
Decomposition Temperature	No information available	
	Boiling Point/Range	No information available
Melting Point/Range	No information available	

Flammability Limits in Air	No information available
Explosion Limits	No information available

Water Solubility	Soluble in water.	
	Solubility	No information available
Evaporation Rate	No information available	
	Vapor Pressure	No data available
Vapor Density	No data available	
	VOC Content (%)	Not applicable
Partition Coefficient: n-octanol/water		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.

Incompatible Products	Acids. Take any precaution to avoid mixing with combustibles Reducing agents. Ammonia. Urea Water.

Conditions to Avoid	Protect from moisture

Hazardous Decomposition Products	Chlorine. Carbon oxides.

Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	

Product Information	

LD50 Oral VALUE	1420
LD50 Dermal VALUE	6250 mg/kg (rat) estimated
LC50 Inhalation (DUST) VALUE	
LC50 Inhalation (VAPOR) VALUE	

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium dichloroisocyanurate dihydrate	= 735 mg/kg (Rat)	> 2000 mg/kg (Rabbit) > 5000 mg/kg (Rat)	> 50 mg/L (Rat) 1 h
Citric acid monohydrate	= 3000 mg/kg (Rat)	-	-
Sodium Bicarbonate	4220 mg/kg (Rat)	-	-

Chronic Toxicity

Chronic Toxicity	No known effect based on information supplied.
Target Organ Effects	None known.
Endocrine Disruptor Information	.

Chemical Name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Sodium dichloroisocyanurate dihydrate	Group III Chemical		

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated. Contains a substance which is: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sodium dichloroisocyanurate dihydrate		LC50: 0.25-1 mg/L (96 h static) Lepomis macrochirus LC50: 0.13-0.36 mg/L (96 h static) Oncorhynchus mykiss LC50: 0.207-0.389 mg/L (96 h flow-through) Lepomis macrochirus LC50: 0.176-0.267 mg/L (96 h flow-through) Oncorhynchus mykiss LC50: 0.29 mg/L (96 h) Oncorhynchus mykiss		EC50: 0.00018 - 0.00021 mg/L (48 h) Daphnia magna EC50: 0.093 - 0.16 mg/L (48 h) Daphnia magna
Citric acid monohydrate		LC50: 1516 mg/L (96 h static) Lepomis macrochirus		EC50: 120 mg/L (72 h) Daphnia magna
Sodium Bicarbonate	EC50: 650 mg/L (120 h) Nitzschia linearis	LC50: 8250-9000 mg/L (96 h static) Lepomis macrochirus		EC50: 2350 mg/L (48 h) Daphnia magna

Chemical Name	Log Pow
Citric acid monohydrate	-1.72

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).
Contaminated Packaging	Dispose of in accordance with local regulations.

US EPA Waste Number	D001

California Hazardous Waste Codes	141

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California EHW	California Carc	California Hazardous Waste	California Waste - Part 2
Sodium dichloroisocyanurate dihydrate		Ignitable		

14. TRANSPORT INFORMATION

DOT		
	UN-No	UN2465
	Proper Shipping Name	Dichloroisocyanuric acid, dry
	Hazard Class	5.1
	Subsidiary Class	
	Packing Group	II
	Description	UN2465,Dichloroisocyanuric acid, dry, 5.1,PG II
	Emergency Response Guide Number	140
TDG		
	UN-No	UN2465
	Proper Shipping Name	Dichloroisocyanuric acid, dry
	Hazard Class	5.1
	Packing Group	II
	Description	UN2465,DICHLOROISOCYANURIC ACID, DRY,5.1,PG II
MEX		
	UN-No	UN2465
	Proper Shipping Name	Dichloroisocyanuric acid, dry
	Hazard Class	5.1
	Packing Group	II
	Description	UN2465 Dichloroisocyanuric acid, dry, 5.1,II
ICAO		
	UN-No	UN2465
	Proper Shipping Name	Dichloroisocyanuric acid, dry
	Hazard Class	5.1
	Packing Group	II
	Description	UN2465,Dichloroisocyanuric acid, dry, 5.1,PG II
IATA		
	UN-No	UN2465
	Proper Shipping Name	Dichloroisocyanuric acid, dry
	Hazard Class	5.1
	Packing Group	II
	ERG Code	5L
	Description	UN2465,Dichloroisocyanuric acid, dry, 5.1,PG II
IMDG/IMO		
	UN-No	UN2465
	Proper Shipping Name	Dichloroisocyanuric acid, dry
	Hazard Class	5.1
	Packing Group	II
	EmS No.	F-A, S-Q
	Marine Pollutant	Product is a marine pollutant according to the criteria set by IMDG/IMO
	Description	UN2465, Dichloroisocyanuric acid, dry, 5.1,PG II
RID		
	UN-No	UN2465
	Proper Shipping Name	Dichloroisocyanuric acid, dry

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Does not Comply
EINECS/ELINCS	Does not Comply
ENCS	Does not Comply
IECSC	Complies
KECL	Does not Comply
PICCS	Complies
AICS	Complies

U.S. Federal Regulations

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.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	Yes

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).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

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). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium dichloroisocyanurate dihydrate	X	X	X		X
Sodium sulfate	X		X		

International Regulations

Mexico - Grade	Slight risk, Grade 1

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
C Oxidizing materials
D1B Toxic materials
D2B Toxic materials

16. OTHER INFORMATION

Issuing Date	25-Aug-2014
Revision Date	25-Aug-2014
Revision Note	No information available

General 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