# Galaxy Systems

# SAFETY DATA SHEET

Issue Date 19-Feb-2018

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Version 1

## **1. PRODUCT AND COMPANY IDENTIFICATION**

<u>Product identifier</u> Product Name	All Temperature Chlorinated Automatic Dish Detergent
Other means of identification Product Code Synonyms	N305-14001 None
Details of the supplier of the safe Company Name	t <mark>y data sheet Nassco Inc. 5365 S. Moorland Road New Berlin, WI 53151 (800) 729-6726</mark>
Emergency telephone number Emergency Telephone	Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

## Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 5
Acute toxicity - Dermal	Not classified
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1

Label elements

## **Emergency Overview**

## Danger

## Hazard statements

May be harmful if swallowed Causes severe skin burns and eye damage



Appearance Clear

Physical state Liquid

Odor Mild Chlorine Bleach

## 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**

Specific Treatment (See Section 4 on the SDS)

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 Drink plenty of water Immediately call a POISON CENTER or doctor/physician

## **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Disposal should be in accordance with applicable regional, national and local laws and regulations

## Hazards not otherwise classified (HNOC)

#### Other Information

Toxic to aquatic life with long lasting effects

Toxic to aquatic life

Unknown Acute Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Weight-%	Trade Secret
Potassium Hydroxide	1310-58-3	7-13	*
Tetrapotassium Pyrophosphate	7320-34-5	1-5	*
Sodium Hypochlorite	7681-52-9	1-5	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

First aid measures	
General advice	Immediate medical attention is required.
Skin Contact	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. For minor skin contact, avoid spreading material on unaffected skin. For severe burns, immediate medical attention is required.
Eye contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.
Inhalation	Remove to fresh air. Call a physician or poison control center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Ingestion	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately.
Self-protection of the first aider	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

#### Most important symptoms and effects, both acute and delayed

Symptoms	Any additional important symptoms and effects are described in Section 11: Toxicology Information.
Indication of any immediate medica	al attention and special treatment needed
Note to physicians	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. 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 Caution: Use of water spray when fighting fire may be inefficient.

#### Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

#### Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

### 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	Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.
Environmental precautions	
Environmental precautions	Do not allow into any storm sewer drains, lakes, streams, ponds, estuaries, oceans or other surface water bodies. Should not be released into the environment. Dispose of according to all local city, state and federal rules and regulations.
Methods and material for containme	ent and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Dam up. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems. Do not mix with acids.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep/store only in original container. Do not reuse container.
Incompatible materials	Incompatible with strong acids and bases. Incompatible with oxidizing agents. Strong acids. Aluminum. Strong reducing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium Hydroxide 1310-58-3	Ceiling: 2 mg/m <sup>3</sup>	(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
Sodium Hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> (vacated) Ceiling: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>
Tetrasodium Pyrophosphate 7722-88-5	-	(vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>

NIOSH IDLH Immediately Dangerous to Life or Health

#### **Other Information**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

#### Appropriate engineering controls

Engineering Controls Showers, Eyewash stations & Ventilation systems.

## Individual protection measures, such as personal protective equipment

- **Eye/face protection** Tight sealing safety goggles. Face protection shield.
- **Skin and body protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear protective gloves and protective clothing.
- **Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
- General Hygiene When using do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear
Color	Colorless
Odor	Mild Chlorine Bleach
Odor threshold	No Information available

<u>Property</u>	<u>Values</u>	Remarks • Method
pH	13.0 - 13.5	
Specific Gravity	1.17	
Viscosity	<25 cP @ 25°C	
Melting point/freezing point	No Information available	
Flash point	None	
Boiling point / boiling range	210 °F	
Evaporation rate	No Information available	
Flammability (solid, gas)	No data available	
Flammability Limits in Air		
Upper flammability limit:	No Information available	
Lower flammability limit:	No Information available	
Vapor pressure	No Information available	
Vapor density	No Information available	
Water solubility	Complete	
Partition coefficient	No Information available	
Autoignition temperature	No Information available	
Decomposition temperature	No Information available	
Other Information		

Density Lbs/Gal VOC Content (%) 9.75 Not Applicable

## **10. STABILITY AND REACTIVITY**

## Reactivity

No data available

## **Chemical stability**

Stable under recommended storage conditions.

## Possibility of Hazardous Reactions

None under normal processing.

## Conditions to avoid

Exposure to air or moisture over prolonged periods. Extremes of temperature and direct sunlight.

## **Incompatible materials**

Incompatible with strong acids and bases. Incompatible with oxidizing agents. Strong acids. Aluminum. Strong reducing agents.

## **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Hydrogen chloride. Phosgene.

## **11. TOXICOLOGICAL INFORMATION**

## Information on likely routes of exposure

Product Information	The primary effects and to	The primary effects and toxicity of this material are due to it corrosive nature.		
Inhalation		Avoid breathing vapors or mists. Inhalation of vapors in high concentration may cause severe irritation or burns to the respiratory tract.		
Eye contact	Avoid contact with eyes. C	Avoid contact with eyes. Causes severe eye damage.		
Skin Contact	The product causes burns	The product causes burns of eyes, skin and mucous membranes.		
Ingestion		May be harmful if swallowed. Ingestion causes acute irritation and burns to the mucous membranes of the mouth, trachea, esophagus and stomach.		
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium Hydroxide	= 284 mg/kg (Rat)	-	-

1310-58-3						
Tetrapotassium Pyrophospha 7320-34-5	te = 2980 mg/kg	(Rat)	> 4640 r	ng/kg (Rabbit)		-
Sodium Hypochlorite 7681-52-9	= 8200 mg/kg	(Rat)	> 10000	mg/kg (Rabbit)		-
Information on toxicolog	ical effects					
Symptoms	No Information	No Information available.				
Delayed and immediate e	effects as well as chroni	c effects fr	om short and I	ong-term expos	sure	
Corrosivity	Causes burn eyes.	s. Extreme	y corrosive and	destructive to tis	ssue. Risk	of serious damage to
Sensitization	May cause s	ensitization	by inhalation a	nd skin contact.		
Germ cell mutagenicity	No Information					
Carcinogenicity	The table be	low indicate	es whether each	agency has liste	ed any ing	redient as a carcinogen.
Chemical Name	ACGIH		IARC	NTP		OSHA
Sodium Hypochlorite 7681-52-9	-	G	roup 3	-		-
IARC (International Age Group 3 -Not classifiable	ency for Research on Cance as a human carcinogen	er)				
Reproductive toxicity	No Information	on available	).			
STOT - single exposure	No Information	on available	<b>)</b> .			
STOT - repeated exposur	re No Information	on available	).			
Chronic toxicity	necrosis. Br common. Ga	Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risk of irreversible effects.				
Target organ effects	EYES, Resp	iratory syste	em, Skin.			
Aspiration hazard	No Information	No Information available.				
Numerical measures of te	oxicity - Product Inform	ation				
Unknown Acute Toxicity	Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity					
The following values are calculated based on chapter 3.1 of the GHS document .ATEmix (oral)4,118.00ATEmix (dermal)97,108.00						

## **12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

2.34% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Potassium Hydroxide 1310-58-3	-	80: 96 h Gambusia affinis mg/L LC50 static	-
Tetrapotassium Pyrophosphate 7320-34-5	-	100: 96 h Oncorhynchus mykiss mg/L LC50	100: 48 h water flea mg/L EC50
Sodium Tripolyphosphate 7758-29-4	-	1650: 48 h Leuciscus idus mg/L LC50	-
Sodium Hypochlorite 7681-52-9	0.095: 24 h Skeletonema costatum mg/L EC50	<ul> <li>4.5 - 7.6: 96 h Pimephales promelas mg/L LC50 static 0.05 - 0.771: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.28 - 1: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.03 - 0.19: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.06 - 0.11: 96 h Pimephales promelas mg/L LC50 flow-through 0.18 - 0.22: 96 h Oncorhynchus mykiss mg/L LC50 static 0.4 - 0.8: 96 h Lepomis macrochirus mg/L LC50 static</li> </ul>	mg/L EC50 Static 2.1: 96 h Daphnia magna mg/L EC50

	0		
Sodium Hydroxide	-	45.4: 96 h Oncorhynchus mykiss	-
1310-73-2		mg/L LC50 static	

## Persistence and degradability

No Information available.

#### **Bioaccumulation**

Bioaccumulative potential.

Chemical Name	Partition coefficient
Potassium Hydroxide	0.65
1310-58-3	0.83

Other adverse effects

No Information available

## **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	Do not reuse container.

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

Chemical Name	California Hazardous Waste Status
Potassium Hydroxide	Toxic
1310-58-3	Corrosive

## **14. TRANSPORT INFORMATION**

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

DOT UN/ID No. Proper shipping name Hazard Class Packing Group Special Provisions Description Emergency Response Guide Number	UN1760 Corrosive liquids, n.o.s. 8 II B2, IB2, T11, TP2, TP27 UN1760, Corrosive liquids, n.o.s. (contains Potassium Hydroxide and Sodium Hypochlorite), 8, II 154
<u>TDG</u>	UN1760
UN/ID No.	Corrosive liquids, n.o.s.
Proper shipping name	8
Hazard Class	II
Packing Group	UN1760, Corrosive liquids, n.o.s. (contains Potassium Hydroxide and Sodium
Description	Hypochlorite), 8, II

International Inventories **TSCA** DSL/NDSL

## **15. REGULATORY INFORMATION**

Complies Complies

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

## **US 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	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

## CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium Hydroxide 1310-58-3	1000 lb	-	-	Х
Sodium Hypochlorite 7681-52-9	100 lb	-	-	Х

## **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)
Potassium Hydroxide	1000 lb	-	RQ 1000 lb final RQ
1310-58-3			RQ 454 kg final RQ
Sodium Hypochlorite	100 lb	-	RQ 100 lb final RQ
7681-52-9			RQ 45.4 kg final RQ

## US State Regulations

#### California Proposition 65

This product has been evaluated and does not require warning labeling under California Proposition 65.

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Potassium Hydroxide 1310-58-3	Х	Х	Х
Sodium Hypochlorite 7681-52-9	Х	X	Х
Sodium Hydroxide 1310-73-2	Х	Х	Х
Tetrasodium Pyrophosphate 7722-88-5	Х	X	Х
Sodium Trimetaphosphate 7785-84-4	-	X	Х

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

<u>NFPA</u>	Health hazards 3	Flammability 0	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 3	Flammability 0	Physical hazards 0	Personal protection D
Issue Date Revision Date Revision Note No Information available	19-Feb-20 19-Feb-20			
Disclaimer	ed in this Safety Data S	sheet is correct to the b	est of our knowledge, infor	mation 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