

Version 1 0 Issue date: 9/14/2017

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier Product name

Acculogic SOLO

Other means of identification

Product Code **UN/ID No** Document

FM9101 UN3266

Recommended use of the chemical and restrictions on use **Recommended use** Automatic Dishmachine Detergent

### Details of the supplier of the safety data sheet

Distributor Accurate Companies 731 W. Fairmont Dr. Tempe, AZ 85282

#### Emergency telephone number

**Company Phone Number** 

24 Hour Emergency Phone Number CHEMTREC: 1-800-424-9300 (NORTH AMERICA) 1-703-527-3887 (INTERNATIONAL) 602-996-9191

### 2. HAZARDS IDENTIFICATION

Classification

### **OSHA Regulatory Status**

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

Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1

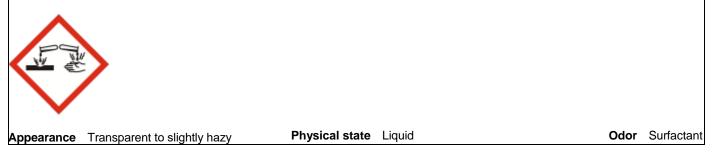
### Label elements

**Emergency Overview** 

### Danger

### Hazard Statements

Causes severe skin burns and eye damage



### **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**

- Immediately call a POISON CENTER or doctor/physician
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- 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
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

#### Precautionary Statements - Storage Store locked up

Precautionary Statements - Disposal Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC) Other information

May be harmful if swallowed
Unknown Acute Toxicity

2.2% of the mixture consists of ingredient(s) of unknown toxicity

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

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS-No	Weight-%	Trade Secret
Potassium hydroxide	1310-58-3	7%-12%	*
Sodium Hydroxide	1310-73-2	20%-30%	*

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

### 4. FIRST AID MEASURES

#### First aid measures for different exposure routes

General advice	Show this safety data sheet to the doctor in attendance.	
Eye contact	Immediately flush eye with plenty of cool, running water. Remove contact lenses if applicable, and continue flushing for at least 15 minutes, holding eyelids apart to ensure thorough rinsing of the entire eye. GET IMMEDIATE MEDICAL ATTENTION.	
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. If skin irritation persists, see a physician.	
Inhalation	If qualified give oxygen or artificial respiration as needed.	
Ingestion	DO NOT induce vomiting. Give large amounts of water if victim is conscious. Never give anything by mouth to an unconscious person. Get medical attention immediately.	
Protection of First-aiders	Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.	



#### Most important symptoms/effects. acute and delayed

Main SymptomsThe most important known symptoms and effects are described in the labelling in section 2<br/>and/or in section 11.

#### Indication of immediate medical attention and special treatment needed. if necessary

Notes to physician

Treat symptomatically.

### **5. FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

Carbon dioxide (CO<sub>2</sub>). Alcohol-resistant foam. Dry chemical.

Unsuitable Extinguishing Media This product contains alcohols which will reduce the effectiveness of normal foam. Use alcohol-resistant foam instead.

#### Specific hazards arising from the chemical

No information available.

Hazardous Combustion Sodium Oxides and Potassium Oxides Products

#### 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	Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation.	
Other information	Common Weak Acids suitable for neutralizing caustic alkalis: acetic acid, citric acid, lemon juice, tartaric acid, vinegar.	
Environmental precautions		
Environmental precautions	Keep out of waterways. Neutralization is normally necessary before waste water is discharged into water treatment plants. See Section 12 for additional Ecological Information.	
Methods and materials for containn	nent and cleaning up	
Methods for Containment	Dike to contain spill and prevent entry into sewers, waterways, and low areas. Neutralize with dilute acid.	
Methods for cleaning up	Mop up & flush neutralized material to sewer with plenty of water. Large spills: Dike or dam spill. Pump to containers or soak up on inert absorbent.	

### 7. HANDLING AND STORAGE



### Precautions for safe handling

Advice on safe handling	Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water. Do not eat, drink or smoke when using this product.
Conditions for safe storage, inclu	ding any incompatibilities
Technical measures/Storage conditions	Keep container in cool well-ventilated area. Keep container tightly closed. Store away from incompatible materials. Keep out of the reach of children.
Incompatible products	Acids, organohalogens, organonitro compounds, oxidizers, reactive metals (aluminum, zinc,

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

tin, alloys containing these metals).

#### Control parameters

### Exposure Guidelines Review Section 3 & 4 for Exposure Guidelines.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide 1310-58-3	2 mg/m³	2 mg/m³	Ceiling: 2 mg/m <sup>3</sup>
Sodium hydroxide 1310-73-2		TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>

#### Legend

Skin - Skin Absorber

NIOSH IDLH: Immediately Dangerous to Life or Health

### Appropriate engineering controls

Engineering Measures Individual protection measures, su	Ensure adequate ventilation and that running water is available for washing eyes and skin ch as personal protective equipment
Eye/Face Protection	Splash-proof chemical goggles or face shield.
Skin and body protection	Impervious rubber, alkali-proof protective gloves. Impervious rubber boots & apron
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.
Hygiene measures	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and chemical properties

Physical state Appearance Color	Liquid Transparent Red	Odor Odor Threshold	Surfactant No information available
<u>Property</u> pH Melting/freezing point	<u>Values</u> 13-14 No information available	<u>Remarks • Methods</u>	
Boiling point/boiling range Flash Point	NA No information available		



Evaporation rate	Similar to Water	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
Upper flammability limit	No information available	
Lower flammability limit	No information available	
Vapor pressure	NE	
Vapor density	NE	
Specific Gravity	1.400	
Water solubility	Miscible with water	Miscible
Solubility in other solvents	No information available	
Partition coefficient: n-octanol	/waterNo information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Viscosity, kinematic	No information available	
Viscosity, dynamic	No information available	
Explosive properties	No information available	
Oxidizing Properties	No information available	
Other information		
Softening point	N/A	
Molecular Weight	N/A	
VOC Content(%)	< 1%	
Density VALUE	N/A	
Bulk Density VALUE	N/A	
	10 STABILITY AND	

# 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

None under normal processing.

#### Conditions to Avoid

Prolonged contact with aluminum, tin, zinc, or lead may produce flammable hydrogen gas.

#### Incompatible Materials

Acids, organohalogens, organonitro compounds, oxidizers, reactive metals (aluminum, zinc, tin, alloys containing these metals).

### **Hazardous Decomposition Products**

May emit toxic fumes under fire conditions. Carbon monoxide (CO). Nitrogen oxides (NOx).

### **11. TOXICOLOGICAL INFORMATION**

### Information on likely routes of exposure

Product Information	Causes severe skin burns	Causes severe skin burns and eye damage		
Inhalation	Severe respiratory irritant.	Severe respiratory irritant.		
Eye contact	Corrosive to the eyes and	Corrosive to the eyes and may cause severe damage including blindness.		
Skin contact	Contact causes severe ski in harmful amounts.	Contact causes severe skin irritation and possible burns. May be absorbed through the skin in harmful amounts.		
Ingestion	Severe irritation of the gas	Severe irritation of the gastrointestinal tract, causing vomiting, nausea and burns.		
Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation	



Potassium hydroxide 1310-58-3	= 284 mg/kg (Rat)	50mg (24hr) = Severe skin irritation	-
Sodium hydroxide 1310-73-2	140 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	
Information on toxicological e	ffects		
Symptoms	No information availabl	Э.	
Delayed and immediate effects	s as well as chronic effects fr	om short and long-term exposure	
Sensitization	No information availabl	Э.	
Mutagenic effects ACGIH: (American Conferen A3 - Animal Carcinogen IARC: (International Agency for Group 3 - Not Classifiable as to			
Reproductive toxicity	No information availabl	Э.	
STOT - single exposure	No information availabl	Э.	
STOT - repeated exposure	No information available.		
Chronic toxicity	No information availabl	e. Avoid repeated exposure.	
Aspiration hazard	No information availabl	Э.	
Numerical measures of toxicit	y - Product Information		
Unknown Acute Toxicity The following values are calcu ATEmix (oral)		nsists of ingredient(s) of unknown toxicity f the GHS document	

### **12. ECOLOGICAL INFORMATION**

### Ecotoxicity

2.7% of the mixture consists of components(s) of unknown hazards to the aquatic environment

150 mg/l

45000 mg/l

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Potassium hydroxide	-	80: 96 h Gambusia affinis mg/L	-
1310-58-3		LC50 static	
Sodium hydroxide	-	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	
1310-73-2		<u>g</u> , <u>_</u> 000 014110	

### Persistence and degradability

ATEmix (inhalation-dust/mist)

ATEmix (inhalation-vapor)

No information available.

### **Bioaccumulation**

No information available.

Chemical Name	Partition coefficient
Potassium hydroxide 1310-58-3	Not expected to bioaccumulate
Sodium hydroxide 1310-73-2	Not expected to bioaccumulate

Other adverse effects

No information available



## **13. DISPOSAL CONSIDERATIONS**

Waste treatment

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

**Contaminated packaging** 

Waste Disposal Methods

Do not reuse container.

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

### **14. TRANSPORT INFORMATION**

DOT UN/ID No	Regulated UN3266
Proper shipping name	Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide)
Hazard class	8
Packing Group	II
Emergency Response Guide Number	154

### **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	-
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

**TSCA** - All components of this product are listed or are exempt or excluded from listing on the United States Toxic Substances Control Act Section 8(b) Inventory.

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### U.S. Federal Regulations



### <u>SARA 313</u>

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 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

#### <u>CERCLA</u>

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	Extremely Hazardous Substances RQs	RQ
Potassium hydroxide 1310-58-3	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ

### U.S. State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

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

This product contains substances regulated by state right-to-know regulations.

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Potassium hydroxide 1310-58-3	Х	X	Х
Sodium hydroxide	Х	X	Х

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

### **16. OTHER INFORMATION**

<u>NFPA</u>	Health Hazards 3	Flammability	0	Instability 1 hazards	Physical and chemical
<u>HMIS</u>	Health hazard 3	Flammability	0	Physical Hazards 1	Personal protection X
Prepared By	Accurate Companies 731 W. Fairmont Dr. Tempe, AZ 85282				
Issuing date Revision Date Revision Note 1	01-June-2015 14-September-2017				



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**End of Safety Data Sheet**