

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

Product identifier

Product name Acculogic Laundry Break

Other means of identification

Product Code FM9115 UN/ID No UN3266

Document

Recommended use of the chemical and restrictions on use

Recommended use Laundry Builder

Details of the supplier of the safety data sheet

Distributor

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

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC: 1-800-424-9300 (NORTH AMERICA)

1-703-527-3887 (INTERNATIONAL)

Company Phone Number 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)

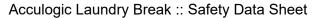
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1

Label elements

Emergency Overview



Appearance:Transparent Clear Physical state: Liquid Odor: Surfactant



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Precautionary Statements - Prevention

- Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- In "Concentrated" form, 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

Unknown Acute Toxicity

3.67% 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
Sodium hydroxide	1310-73-2	20% - 30%	*
Potassium Hydroxide	1310-58-3	15% - 25%	*

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. Immediately call a POISON

CENTER or doctor/physician.

Eye contact Flush with flowing water for 15 minutes & see physician.

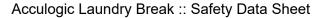
Skin contact Immediately flush skin with plenty of water for at least 15 minutes while removing

contaminated clothing and shoes. Call a physician, immediately. Wash clothing before

re-use.

Inhalation Remove to fresh air. If breathing has stopped, apply suitable artificial respiration. Get

medical help.



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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. Rinse

mouth.

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 Symptoms The most important known symptoms and effects are described in the labelling in section 2

and/or in section 11.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use water spray or fog, foam, dry chemical, carbon dioxide, alcohol foam, if product is involved.

Unsuitable Extinguishing Media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Use water spray to cool adjacent fire exposed containers. Product will not burn but may splatter if temperature exceeds boiling point.

Hazardous Combustion If burned, normal combustion products: Carbon dioxide, Carbon monoxide; Nitrogen oxides.

Products Hydrogen gas in contact with some metals.

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

Avoid exposure to fumes or vapors. Protect eyes and skin from contact. Wear self-contained positive pressurized breathing apparatus MSHA/NIOSH Approved or equivalent to maintain TLV.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautionsEnsure adequate ventilation, Avoid contact with skin, eyes and clothing. Use personal

protective equipment. Wash face, hands and any exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product. Do not breathe

dust/fume/gas/mist/vapors/spray.

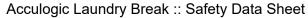
Other information Common Weak Acids suitable for neutralizing caustic alkalis: acetic acid, citric acid, lemon

juice, tartaric acid, vinegar.

Environmental precautions

Neutralization is normally necessary before waste water is discharged into water treatment

plants. See Section 12 for additional Ecological Information.



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Methods and materials for containment and cleaning up

Methods for Containment Neutralize with dilute acid or sodium bicarbonate. Prevent further leakage or spillage if safe

to do so.

Methods for cleaning up

Neutralise with a weak acid. Soak up with inert absorbent material. Sweep up and shovel

into suitable containers for disposal. After cleaning, flush away traces with water.

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, including 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 Strong acids, reactive metals (i.e. aluminum or zinc).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines Review Section 3 & 4 for Exposure Guidelines.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide	-	TWA: 2 mg/m ³	IDLH: 10 mg/m ³
1310-73-2		-	Ceiling: 2 mg/m ³
Potassium Hydroxide 1310-53-3	2mg/m³	2mg/m³	2mg/m³

NIOSH IDLH: Immediately Dangerous to Life or

Health Appropriate engineering controls

Engineering Measures Ensure adequate ventilation and that running water is available for washing eyes and skin

Individual protection measures, such 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 measuresDo not eat, drink or smoke when using this product. Remove and wash contaminated

clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical state Liquid



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Appearance Transparent Odor Characteristic

Color Clear Odor Threshold No information available

 ± 0.5

<u>Property</u> <u>Values</u> <u>Remarks • Methods</u>

pH 13.5-14.0

Melting/freezing pointNo information availableBoiling point/boiling range100 °C / 212 °FFlash PointNo information available

Evaporation rate GT 1.00

Flammability (solid, gas) No information available

Flammability Limits in Air

Upper flammability limitNo information availableLower flammability limitNo information available

Vapor pressure 17

Vapor density No information available

Specific Gravity 1.45

Water solubility Completely Soluble 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 No information available Molecular Weight No information available

VOC Content(%) Negligible

Density VALUE No information available Bulk Density VALUE No information available

10. STABILITY AND REACTIVITY

Chemical stability

Stable.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

Strong acids, reactive metals (i.e. aluminum or zinc).

Hazardous Decomposition Products

If burned, normal combustion products: Carbon dioxide, Carbon monoxide; Nitrogen oxides. Hydrogen gas in contact with some metals.

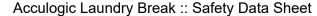
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Harmful if swallowed Causes severe skin burns and eye damage

Inhalation Corrosive to respiratory system.

Eye contact Corrosive to the eyes and may cause severe damage including blindness



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Skin contact Causes burns.

Ingestion Causes gastrointestinal tract burns. Causes severe pain, nausea, vomiting, diarrhea, and

shock.

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
Sodium hydroxide 1310-73-2	140 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	-
Potassium hydroxide 1310-53-3	273mg/kg (Rat)	=50mg (24hr) (Rabbit)	-

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

SensitizationNo information available. **Mutagenic effects**No information available.

Carcinogenicity Contains no ingredient listed as a carcinogen.

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

Chronic toxicity No information available. Avoid repeated exposure.

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 3.67% 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) 1803604 mg/kg ATEmix (dermal) 7353 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

5.8913% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium hydroxide 1310-73-2	-	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	-
Potassium hydroxide 1310-53-3	-	24hr LC50=80mg/L Mosquito Fish	-

Persistence and

degradability No information

available.

Bioaccumulation

No information available.

No information available

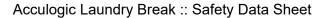
13. DISPOSAL CONSIDERATIONS

Waste treatment

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

regulations.

Contaminated packaging Do not reuse container.





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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	
Sodium hydroxide 1310-73-2	Toxic Corrosive	

14. TRANSPORT INFORMATION

DOT Regulated UN3266

Proper shipping name Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide)

Hazard class 8
Packing Group || Emergency Response Guide 154

Number

15. REGULATORY INFORMATION

International Inventories

TSCA -complies **DSL/NDSL** -complies **EINECS/ELINCS** -complies **ENCS** -complies **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

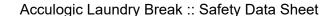
U.S. Federal Regulations

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

Yes
no
no
no





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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
Sodium hydroxide 1310-73-2	1000 lb	-	-	X

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	Extremely Hazardous Substances RQs	RQ
Sodium hydroxide	1000 lb	-	RQ 1000 lb final RQ
1310-73-2			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.

		- 3		
Chemical Name	New Jersey	Massachusetts	Pennsylvania	
Sodium hydroxide	X	X	X	
1310-73-2				

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA Health Hazards 3 Flammability 0 Instability 1 Physical and chemical

hazards COR

HMIS Health hazard 3 Flammability 0 Physical Hazards 1 Personal protection X

Prepared By Accurate Companies

731 W. Fairmont Dr. Tempe, AZ 85282 01-March-2016

Issuing date01-March-2016Revision Date14-September-2017Revision NoteUpdated Formula

Disclaimer

The information provided in this Material 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