

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

Product identifier

Product name Cleaver

Other means of identification

Product Code FM9049 UN/ID No UN3266

Recommended use of the chemical and restrictions on use

Recommended use Oven & Grill Cleaner

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 1-800-870-8508

# 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



Appearance Transparent Physical state Liquid Odor Surfactant

# **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

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**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	5% -15%	*
2-Butoxyethanol	111-76-2	0.% - 3.5%	*

<sup>\*</sup>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.

CLEAVER :: Safety Data Sheet

**ACCURATE** 

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# 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 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** 

Carbon monoxide. Nitrogen oxides (NOx).

Explosion Data

**Products** 

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 containment 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, 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 Acids, organohalogens, organonitro compounds, oxidizers, reactive metals (aluminum, zinc,

tin, alloys containing these metals).

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Review Section 3 & 4 for Exposure Guidelines.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide	2 mg/m³	2 mg/m³	Ceiling: 2 mg/m <sup>3</sup>
1310-58-3		_	
2-Butoxyethanol	TWA: 20 ppm	TWA: 50 ppm	IDLH: 700 ppm
111-76-2		TWA: 240 mg/m <sup>3</sup>	TWA: 5 ppm
		S*	TWA: 24 mg/m <sup>3</sup>

Legend

Skin - Skin Absorber

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 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 Liquid

AppearanceTransparentOdorSurfactant

ColorBlue GreenOdor ThresholdNo information available

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

**pH** 13.5-14.5

Melting/freezing point No information available

Boiling point/boiling range NA

Flash Point No information available



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**Evaporation rate** Similar to Water

Flammability (solid, gas) No information available

Flammability Limits in Air

Upper flammability limitNo information availableLower flammability limitNo information available

Vapor pressure NE
Vapor density NE
Specific Gravity 1.05 - 1.08

Water solubility Miscible with water Miscible

Solubility in other solvents
Partition coefficient: n-octanol/water No information available
Autoignition temperature
Pecomposition temperature
Viscosity, kinematic
Viscosity, dynamic
Explosive properties
No information available

#### Other information

 Softening point
 N/A

 Molecular Weight
 N/A

 VOC Content(%)
 < 5%</th>

 Density VALUE
 N/A

 Bulk Density VALUE
 N/A

# 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 and eye damage

**Inhalation** Severe respiratory irritant.

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

**Skin contact**Contact causes severe skin irritation and possible burns. May be absorbed through the skin

in harmful amounts.

**Ingestion** Severe irritation of the gastrointestinal tract, causing vomiting, nausea and burns.

Chemical Name Oral LD50 Dermal LD50 LC50 Inhala	
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Potassium hydroxide 1310-58-3	= 284 mg/kg (Rat)	-	-
2-Butoxyethanol 111-76-2	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h

#### Information on toxicological effects

**Symptoms** No information available.

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

Sensitization No information available. **Mutagenic effects** No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
2-Butoxyethanol	A3	Group 3	-	-
111-76-2		·		

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans

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

**Chronic toxicity** No information available. Avoid repeated exposure.

**Aspiration hazard** No information available.

#### Numerical measures of toxicity - Product Information

2.2% of the mixture consists of ingredient(s) of unknown toxicity **Unknown Acute Toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 3301 mg/kg ATEmix (inhalation-dust/mist) 150 mg/l ATEmix (inhalation-vapor) 45000 mg/l

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

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

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Chemical Name	Algae/aquatic plants	Fish	Crustacea
Potassium hydroxide	-	80: 96 h Gambusia affinis mg/L	-
1310-58-3		LC50 static	
2-Butoxyethanol	-	1490: 96 h Lepomis macrochirus	1698 - 1940: 24 h Daphnia magna
111-76-2		mg/L LC50 static 2950: 96 h	mg/L EC50 >1000: 48 h Daphnia
		Lepomis macrochirus mg/L LC50	magna mg/L EC50

### Persistence and degradability

No information available.

#### Bioaccumulation

No information available.

Chemical Name	Partition coefficient
Potassium hydroxide 1310-58-3	0.65 0.83
2-Butoxyethanol	0.83
111-76-2	

Other adverse effects 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.

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 Corrosive
1310-58-3	

# 14. TRANSPORT INFORMATION

DOT Regulated UN3266

Proper shipping name Corrosive Liquid, Basic, Inorganic, n.o.s. (Potassium Hydroxide)

Hazard class 8
Packing Group II
Emergency Response Guide 154

Number

# 15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
ENCS -

IECSCCompliesKECLCompliesPICCSCompliesAICSComplies

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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	SARA 313 - Threshold Values %
2-Butoxyethanol - 111-76-2	1.0
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	-	-	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
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.

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Chemical Name	New Jersey	Massachusetts	Pennsylvania
Potassium hydroxide 1310-58-3	Х	X	X
2-Butoxyethanol 111-76-2	Х	X	Х

# U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

# **16. OTHER INFORMATION**

NFPA Health Hazards 3 Flammability 0 Instability 0 Physical and chemical hazards COR

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

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

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# **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**