

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

Product identifier				
Product name	Cleaver			
Other means of identification Product Code UN/ID No	FM9049 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 852	282			
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 Blue/Green	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



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

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%	*

*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
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 (CO₂). 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). 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	uding 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.	
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Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide 1310-58-3	2 mg/m ³	2 mg/m ³	Ceiling: 2 mg/m ³
2-Butoxyethanol	TWA: 20 ppm	TWA: 50 ppm	IDLH: 700 ppm
111-76-2		TWA: 240 mg/m³ S*	TWA: 5 ppm TWA: 24 mg/m ³

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 Appearance Color

Property pH Melting/freezing point Boiling point/boiling range Flash Point Liquid Opaque Blue Green

Values 13.5-14.5 No information available NA No information available Odor Odor Threshold Surfactant No information available

Remarks • Methods



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Eveneration rate	Similar to Water	
Evaporation rate	No information available	
Flammability (solid, gas) Flammability Limits in Air		
-		
Upper flammability limit	No information available	
Lower flammability limit	No information available	
Vapor pressure	NE	
Vapor density	NE	
Specific Gravity	1.05 - 1.08	
Water solubility	Miscible with water	Miscible
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/wate	rNo 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(%)	< 5%	
Density VALUE	N/A	
Bulk Density VALUE	N/A	

10. STABILITY AND REACTIVITY

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Chemical stability
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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 irritan	Severe respiratory irritant.		
Eye contact	Corrosive to the eyes an	Corrosive to the eyes and may cause severe damage including blindness.		
Skin contact	Contact causes severe s 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 ga	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)	-	-
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 informatio	on 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 111-76-2	A3	Group 3	-	-	
ACGIH: (American Conference of A3 - Animal Carcinogen	f Governmental I	ndustrial Hygienists)			
IARC: (International Agency for R					
Group 3 - Not Classifiable as to Car					
Reproductive toxicity	No information available.				
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 Inform	nation			
Unknown Acute Toxicity		nixture consists of ingredie			
	culated based on chapter 3.1 of the GHS document .				
ATEmix (oral)	3301 mg/kg				
ATEmix (inhalation-dust/mist)	, 5				
ATEmix (inhalation-vapor)	apor) 45000 mg/l				

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

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 111-76-2	0.81

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 UN/ID No	Regulated UN3266
Proper shipping name	Corrosive liquid, basic, inorganic, n.o.s. (Potassium 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 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	-	-	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	1000 lb	-	RQ 1000 lb final RQ
1310-58-3			RQ 454 kg final RQ
ILC State Degulations			0

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	X	X	X
2-Butoxyethanol 111-76-2	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION					
<u>NFPA</u> HMIS	Health Hazards 3 Health hazard 3	Flammability 0 Flammability 0	Instability 0 Physical Hazards 0	Physical and chemical hazards COR Personal protection X	
Prepared By Issuing date Revision Date Revision Note	Accurate (01-June-2 02-May-2(015	mont 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