SAFETY DATA SHEET

Oven Cleaner **Revision Date** 1/14/2015

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	**Oven Cleaner**	**PRODUCT USE**	Caustic Oven Cleaner	**ITEM**	146
COMPANY NAME	Abernathy Company	**Office**	(800) 962-7498		
	3800 Abernathy Drive	**Fax**	(870) 772-2908		
	Texarkana AR 71854	**Web**	www.abernathycompany.com		
	EMERGENCY TELEPHONE NUMBER	**INFOTRAC**	**(800) 535-5053**		

SECTION – 2 HAZARDS INFORMATION

PHYSICAL HAZARDS CORROSIVE TO METALS-Category 1

HEALTH HAZARDS EYES-Category 1, SKIN-Category 1A, STOT SINGLE EXPOSURE-Category 3, RESPIRATORY SENSITIZER-Category 1, ACUTE TOXICITY-Category 4 (Oral)


Acute Toxicity
Respiratory Tract Irritant


Respiratory Sensitizer


Corrosive to Metals
Eye Damage
Skin Corrosion/Burns

DANGER! Causes severe skin burns and eye damage, Causes allergy or asthma symptoms or breathing difficulties if inhaled, Harmful if swallowed, May cause respiratory irritation, Do not get in eyes, on skin, or clothing, and avoid inhalation of mist, Do not smoke, eat or drink while using, handling or transferring, Use personal protective equipment as required, Wash thoroughly after handling, Avoid release into the environment

SECTION – 3 COMPOSITION INFORMATION

(Exact percentage of the listed chemicals of composition has been withheld as a trade secret)

CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS #	IMPURITIES	PERCENT
D-Glucopyranose	D-Glucopyranose, oligomeric, decyl octyl glycoside	68515-73-1	Decanol <5%, Octanol <5%	1 - 5%
Monoethanolamine	Ethanolamine, 2-aminoethanol	141-43-5	Water <1%	1 - 3%
Potassium Hydroxide	KOH, Caustic Potash	1310-58-3		40 - 60%
Sodium Silicate	Water Glass	1344-09-8		13 - 17%

SECTION – 4 FIRST AID MEASURES

EYE CONTACT Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids, Remove contact lenses if present and easy to do without injury to the eye and continue rinsing, Obtain immediate medical attention, preferably from an ophthalmologist or Emergency Room

SKIN CONTACT Immediately wash contaminated skin with a nonabrasive soap and plenty of water for at least 15 minutes, Remove any contaminated clothing and wash before reuse, If irritation is present or occurs obtain medical attention

INHALATION Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical attention

INGESTION DO NOT INDUCE VOMITING. If person is fully conscious, rinse mouth out and give one to two glasses of water to dilute and obtain immediate medical attention. If vomiting occurs, keep head below hips to prevent aspiration into the lungs

Aspiration Hazard Not considered to be an aspiration hazard

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes Causes serious eye damage, severe pain, corrosive burns, or possible corneal injury

Skin Can cause serious skin irritation, redness, drying, cracking, or possible corrosive burns

Inhalation Mist can cause serious irritation, to throat, mucus membranes or respiratory tract

Ingestion Harmful if swallowed, Causes serious irritation, of the mouth, throat, and esophagus, and may affect target organs, Moderate acute toxicity if swallowed, Ingestion may cause vomiting which may be harmful if it enters airways

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Corrosive to eyes, Causes serious eye damage, severe pain, corneal injury, partial or complete blindness

Skin Corrosive to skin, Causes serious skin damage, redness, drying, cracking, or corrosive burns

Inhalation Harmful if inhaled, Mist can cause serious irritation, to nose, throat, mucus membranes or respiratory tract, and possible corrosive burns, Symptoms may include, coughing, wheezing, breathing difficulties, through prolonged or repeated exposure

Ingestion Harmful if swallowed, Can cause corrosive burns, of the mouth, throat, and esophagus, and can affect target organs, Acute toxicity if swallowed, Ingestion may cause vomiting which may be harmful if it enters airways

SECTION – 5 FIRE FIGHTING MEASURES

Extinguishing Media	Not flammable: Use extinguishing media for surrounding fire
Hazardous Decomposition	Burning or thermal decomposition can produce, carbon monoxide, carbon dioxide, sodium oxides, silicon oxides, potassium oxides, and other toxic fumes
Reactive With	Reactive with, strong oxidizing agents, strong acids, alkaline earth metals
Explosion Hazards	Not applicable
Static Discharge	Not applicable
Mechanical Impact	Not applicable
Protective Equipment	Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

FLAMMABLE LIQUIDS HAZARD CLASSIFICATION

Criteria	Flash point > 93.3ºC (200ºF)
NFPA	Class III B
GHS	Not applicable
WHMIS	Not applicable

NFPA HAZARD RATINGS

Health	3
Flammability	0
Reactivity	1
Personal Protection	FBG

SECTION – 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Warn personnel to move away
Personal Precautions	Ventilate area, Avoid slipping on spilled product
Protective Equipment	Safety Glasses, Chemical Gloves, Approved Respirator, Chemical Apron and Rubber Boots
Containment	Use absorbent socks or pads to prevent spill from spreading
Clean Up Procedures	Small Spills: Use wet vacuum or mop and wringer to pick up spilled material then mop area with clean water Large Spills: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container Vacuum or sweep up material and place in a disposal container
Disposal	Dispose of material in accordance with all State and Federal Guidelines and Regulations

SECTION – 7 HANDLING AND STORAGE

Handling	CORROSIVE, Keep away from incompatible materials, Use appropriate safety equipment, and adequate ventilation, Avoid eye and skin contact, Avoid inhalation of mist, May cause respiratory irritation, Harmful if swallowed, Do not smoke, eat or drink while using, Wash thoroughly after handling, Avoid release to the environment
Storage	KEEP OUT OF REACH OF CHILDREN, Keep container closed when not in use, Store away from incompatible materials
Incompatible Materials	Incompatible with, strong oxidizing agents, strong acids, alkaline earth metals

SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA PEL (TWA 8)	OSHA (CEIL)	Significant Exposure
D-Glucopyranose		AIHA WEEL	50 ppm (265 mg/m3)		
Monoethanolamine	3 ppm	6 ppm	3 ppm (8 mg/m3)	6 ppm (15 mg/m3)	
Potassium Hydroxide	2 mg/m3		2 mg/m3		
Sodium Silicate			80 mg/m3		

PERSONAL PROTECTIVE EQUIPMENT

Chemical Safety Glasses, Goggles or Face Shield

Impervious Chemical Gloves

MSHA / NIOSH Approved Respirator At or Above Listed TLV's

Impervious Protective Clothing

Eye Wash and Safety Shower (Recommended)

Ventilation

General Ventilation

If exposure limits listed above are exceeded, or irritation is experienced, use a MSHA / NIOSH approved respirator

HMIS HAZARD RATINGS

Health	3
Flammability	0
Reactivity	1
Personal Protection	H

SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	Not Flammable	**Specific Gravity / Relative Density**	1.30
Flammable Limits	NA	**Molecular Weight**	ND
Auto-Ignition Temp.	NA	**Initial Boiling Point**	ND
Physical State	Liquid	**Boiling Range**	ND
Appearance	Clear Brown	**Vapor Pressure**	ND
Odor	Caustic / Detergent	**Vapor Density**	ND
Odor Threshold	ND	**Freeze Point**	ND
Solubility	100%	**Melting Point**	ND
Volatiles	< 60%	**Partition Coefficient**	ND
VOC	< 2%	**Decomposition Temperature**	ND
pH (± 0.3)	13.0	**Evaporation Rate**	ND

SECTION – 10 STABILITY AND REACTIVITY

Reactivity (Specific Test Data)	None available
Chemical Stability	Stable when stored below 49ºC (120ºF)
Hazardous Polymerization	Will not occur
Conditions To Avoid	Incompatible materials
Incompatible Materials	Incompatible with, strong oxidizing agents, strong acids, alkaline earth metals
Thermal Decomposition	Burning or thermal decomposition can produce, carbon monoxide, carbon dioxide, sodium oxides, silicon oxides, potassium oxides, and other toxic fumes

SECTION – 11 TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE

Eyes (Yes), Skin (Yes), Inhalation (Yes "Mist"), Ingestion (Yes)

ACUTE	**SYMPTOMS OF SINGLE OVEREXPOSURE**
Eyes	Causes serious eye damage, severe pain, corrosive burns, or possible corneal injury
Skin	Can cause serious skin irritation, redness, drying, cracking, or possible corrosive burns
Inhalation	Mist can cause serious irritation, to throat, mucus membranes or respiratory tract
Ingestion	Harmful if swallowed, Causes serious irritation, of the mouth, throat, and esophagus, and may affect target organs, Moderate acute toxicity if swallowed, Ingestion may cause vomiting which may be harmful if it enters airways
CHRONIC	**SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE**
Eyes	Corrosive to eyes, Causes serious eye damage, severe pain, corneal injury, partial or complete blindness
Skin	Corrosive to skin, Causes serious skin damage, redness, drying, cracking, or corrosive burns
Inhalation	Harmful if inhaled, Mist can cause serious irritation, to nose, throat, mucus membranes or respiratory tract, and possible corrosive burns, Symptoms may include, coughing, wheezing, breathing difficulties, through prolonged or repeated exposure
Ingestion	Harmful if swallowed, Can cause corrosive burns, of the mouth, throat, and esophagus, and can affect target organs, Acute toxicity if swallowed, Ingestion may cause vomiting which may be harmful if it enters airways

Acute Tox Calculated **Oral:** 1,129 mg/kg **Dermal:** 2,384 mg/kg **Inhaled:** 1,000 mg/L

Acute Tox Category Category 4 (Oral >300, ≤2000 mg/kg), "Not applicable (Dermal > 2,000 mg/kg)", "Not applicable (Inhaled > 5 mg/L) Dust or Mist"

Additional Info

Target Organs Kidneys, Liver, Respiratory Tract, Eyes (Lens or cornea), Skin

Medical Conditions Preexisting, eye, skin, liver, kidney, respiratory, disorders may be aggravated by exposure to this product

Notes to Physician In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption

CARCINOGENIC – This product contains concentrations above 0.1% of the following:

CHEMICAL NAME	NTP	ACGIH	IARC	GHS Category
None Listed				

MUTAGENIC AND REPRODUCTIVE EFFECTS – May cause fetal and reproductive abnormalities.

CHEMICAL NAME	Germ Cell Mutagenicity	Toxic to Reproduction
None Listed		

SECTION – 11 TOXICOLOGICAL INFORMATION - CONTINUED

COMPONENTS ACUTE TOXICITY

CHEMICAL NAME	Type	Form	Subject	Result Value	Exposure Time	GHS Category
Potassium Hydroxide	LD50	Oral	Rat	607 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rabbit	1,260 mg/kg		4 (>1000, ≤2000 mg/kg)
Sodium Silicate	LD50	Rat	Oral	3,200 mg/kg		(>2000 mg/kg)
D-Glucopyranose	LD50	Oral	Rat	> 3,000 mg/kg		(>2000 mg/kg)
	LD50	Dermal	Rabbit	> 5,000 mg/kg		
Ethanolamine	LD50	Oral	Rat	1,720 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rabbit	1,015 mg/kg		3 (>200, ≤1000 mg/kg)

SECTION – 12 ECOLOGICAL INFORMATION

CHEMICAL NAME	Type	Subject	Subject Latin	Result Value	Exposure Time	GHS Category
Potassium Hydroxide	LC50	Mosquito Fish	(Gambusia affinis)	80 mg/L	24 Hours	3 (>10, ≤100 mg/L)
	EC50	Water Flea	(Daphnia magna)	247 mg/L	96 Hours	4 (>100 mg/L)
	LC50	Fish	(Gambusia affnis)	2,320 mg/L	96 Hours	4 (>100 mg/L)
D-Glucopyranose	LC50	Fathead Minnow	(Pimephales promelas)	190 mg/L	96 Hours	4 (>100 mg/L)
	EC50	Water Flea	(Daphnia magna)	150 mg/L	48 Hours	4 (>100 mg/L)
Monoethanolamine	LC50	Fathead Minnow	(Pimephales promelas)	227 mg/L	96 Hours	4 (>100 mg/L)
	LC50	Water Flea	(Daphnia magna)	65 mg/L	48 Hours	3 (>10, ≤100 mg/L)

Presistence And Degradability There is no degradation of potassium hydroxide in waters, only loss by absorption or through chemical neutralization

Bioaccumulative Potential No data available

Mobility In Soil This product is water soluble and will move readily in soil and water

Other Adverse Effects Harmful to aquatic life

SECTION – 13 DISPOSAL CONSIDERATIONS

DO NOT DUMP INTO ANY STORM SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER
Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

ENVIRONMENTAL FATE

Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste.

This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its composition containing in some or all of its components.

The transportation, storage, treatment and disposal of RCRA waster material must be conducted in compliance with 40 CFR 262, 263, 264 and 270. Disposal can only occur in properly permitted facilities.

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate, or otherwise inappropriate.

SECTION – 14 TRANSPORT INFORMATION

D.O.T. CLASSIFICATION

UN Number	Proper Shipping Name	n.o.s. (Chemicals) or "Limits"
UN 3266	CORROSIVE LIQUID, BASIC, INORGANIC, n.o.s. (Potassium Hydroxide)	

Hazard Class	Packing Group	Label Codes	Reportable Quantity (lbs)	Response Code	Marine Pollutant
8	PG II	Corrosive Liquids	1000	154	No

Placard Label **Hazard Label** **Secondary** .

SECTION – 15 REGULATORY INFORMATION

TSCA

CHEMICAL NAME	Sec 8(b) Inventory	Sec 8(d) Health And Safety	Sec 4(a) Chemical Test Rules	Sec 12(b) Export Notification
Ethanolamine	Yes			
Potassium Hydroxide	Yes	Yes		
Sodium Silicate	Yes			

REPORTABLE QUANTITIES

	Extremely Hazardous		Reportable Quantity	Emission Reporting		
CHEMICAL NAME	EPCRA TPQ Sec 302	EPCRA RQ Sec 304	CERCLA RQ Sec 103	TRI Sec 313	RCRA Code	RMP TQ Sec 112r
Potassium Hydroxide			1000			

SARA

	Section 311	Section 311 / 312 Hazards				
CHEMICAL NAME	Hazardous Chemical	Acute	Chronic	Flammable	Pressure	Reactive
D-Glucopyranose	Yes	Yes				
Monoethanolamine	Yes	Yes	Yes			
Potassium Hydroxide	Yes	Yes	Yes			
Sodium Silicate	Yes	Yes	Yes			

RIGHT TO KNOW

	STATE												
CHEMICAL NAME	CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Ethanolamine		Yes		Yes		Yes		Yes		Yes	Yes	Yes	
Potassium Hydroxide	Yes		Yes			Yes	Yes	Yes		Yes	Yes		

CALIFORNIA WARNING! This product contains chemicals known to the state of California to cause:

CHEMICAL NAME	CAS #	Birth Defects	Reproductive Harm	Carcinogen	Developmental
None Listed					

CLEAN AIR WATER ACTS

		Clean Air Acts			Clean Water Acts		
CHEMICAL NAME	CAS #	HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP
None Listed							

INTERNATIONAL REGULATIONS – The components of this product are listed on the chemical inventories of the following countries:

CHEMICAL NAME	Australia	Canada	Europe (EINECS)	Japan	Korea	UK
None Listed						

WHMIS Classification

CHEMICAL NAME	DSL	Class	Description
Potassium Hydroxide		D-1B	Materials Causing Immediate and Serious Toxic Effects; Toxic Material
Potassium Hydroxide, Monoethanolamine	Yes	E	Corrosive Material

DSCL (EEC)

Code	Definition (R-Phrases / S-Phrases)
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R35	Causes severe burns
R36/37/38	Irritating to eyes, respiratory system and skin
R41	Risk of serious damage to eyes
R42	May cause sensitisation by inhalation
R52	Harmful to aquatic organisms
S2	Keep out of the reach of children
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S27	Take off immediately all contaminated clothing
S61	Avoid release to the environment
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label where possible
S24/25	Avoid contact with skin and eyes
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection

SECTION – 16 OTHER INFORMATION

SDS	Legend Description		
ACGIH	American Conference of Governmental Industrial Hygienists	**LC50**	A concentration that is lethal to 50% of a given species in a given time
CAS	Chemical Abstracts Service Registry	**LD50**	Dose that is lethal to 50% of a given species by a given route of exposure
CEIL	Ceiling Limit (15 minutes)	**LEL**	Lower Explosive Limit
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	**NA**	Not Applicable
EC50	Concentration of a chemical that gives half-maximal response	**ND**	Not Determined
EPA	Environmental Protection Agency	**NE**	Not Established
FBG	Full Bunker Gear	**NFPA**	National Fire Protection Association
GHS	Globally Harmonized System	**NIOSH**	National Institute for Occupational Safety and Health
HAP	California Hazardous air pollutant Clean Air Act	**NTP**	National Toxicology Program
HMIS-A	Safety Glasses	**OSHA**	Occupational Safety and Health Administration
HMIS-B	Safety glasses, gloves	**PEL**	Permissible Exposure Limit (OSHA)
HMIS-C	Safety glasses, gloves, chemical apron	**PP**	California Priority Pollutant under the Clean Water Act
HMIS-D	Face shield, gloves, chemical apron	**REL**	Recommended exposure limit (NIOSH)
HMIS-E	Safety glasses, gloves, dust respirator	**SARA**	Superfund Amendments and Reauthorization Act
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	**STEL**	Short Term Exposure Limit (15 minutes)
HMIS-G	Safety glasses, gloves, vapor respirator	**TC Lo**	Air concentration that is lethal to 50% of a given species in a given time
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator	**TD Lo**	Lowest dose that is toxic to a given species
HMIS-I	Safety glasses, gloves, dust and vapor respirator	**TLV**	Threshold Limit Value (ACGIH)
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	**TP**	California Toxic Pollutant under the Clean Water Act
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots	**TSCA**	Toxic Substances Control Act
HMIS-X	Ask Supervisor	**TWA**	Time Weighted Average (8 hours)
HS	California Hazardous Substance under the Clean Water Act	**UEL**	Upper Explosive Limit

Abernathy Company

and nCites, L.L.C. have compiled the information herein from sources believed to be reliable and up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources or the completeness and expressly do not make warranties, nor assume any liability for its use. The information contained herein is provided for reference purposes only and is intended only for persons having relevant technical skills. Because conditions and manner of use are outside of our control, the user is responsible for determining the conditions of safe use of the product. Buyers and users assume all risk, responsibility and liability whatsoever from any and all injuries, losses, or damages to persons or property arising from the use of this product or information.

Supersedes Safety Data Sheet Dated