

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200

Revision Date: 11/20/15

Section 1: Identification

Product Identifier:

Product name: QuicKleen Floor Stripper
Product #: JLQKST0401/JLQKST0105/JLQKST0155

Other means of Identification:

Chemical name: Glycol Ether EB/Mono Isopropanolamine

<u>CAS#</u>	<u>%</u>	<u>CAS NAME</u>	<u>HAZARD</u>
107-21-1	>1.0	ETHYLENE GLYCOL	TOXIC
111-76-2	>1.0	ETHYLENE GLYCOL MONO BUTYL ETHER	TOXIC
9016-45-9	>1.0	POLY (OXY-1,2-ETHANEIYL), ALPHA-(NONYLPHENYL-OMEGA-HYDROXY)	

Recommended Use:

Floor Stripper is to be used as a wax remover.

Chemical Manufacturer:

Oklahoma Correctional Industries
 3402 N. Martin Luther King Ave.
 Oklahoma City, Oklahoma 73111
 Phone: (405) 964-7220
 Fax: (405) 964-7222

Emergency telephone number:

For emergency health, safety, and environmental information: call 1-800-522-3565

Section 2: Hazard(s) Identification

GHS Classification

- Flammable liquids : Category 4
- Acute toxicity (Dermal) : Category 4
- Skin corrosion : Category 1B
- Serious eye damage : Category 1

Warning label items including precautionary statement:

Pictogram:



Signal words:

DANGER!

Hazard statement:	<p>H227: Combustible Liquid H302: Harmful if swallowed H304: May be fatal if swallowed and enters airways H312: Harmful in contact with skin H314: Causes severe skin burns and eye damage H315: Causes skin irritation H319: Causes serious eye irritation Fatal if inhaled</p>
Precautionary statement:	
Prevention:	<p>P210: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No Smoking. P264: Wash hands thoroughly after handling. P270: Do not eat, drink, or smoke when using this product. P271: Use only outdoors or in a well ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection.</p>
Response:	<p>Do not breathe vapor P302+P352: If on skin: Wash with plenty of soap and water. P332+P313: If skin irritation occurs: Get medical advice/attention. P363: Wash contaminated clothing before reuse. P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/attention. P301+P310: If swallowed: Immediately call a poison center or doctor/physician. P331: Do not induce vomiting. P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P310: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.</p>
Storage:	<p>P403+P235: Store in a well ventilated place. Keep cool. P405: Store locked up.</p>
Disposal:	<p>P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.</p>

Hazards not otherwise classified (HNOC)

STRIPPER	
2	HEALTH
2	FLAMMABILITY
0	REACTIVITY
K	PROTECTIVE EQUIPMENT

Supplemental Information None

Section 3: Composition/Information on Ingredients

Hazardous Components

Chemical Name *	CAS-No	Common Name and Synonyms	Percentage
2-BUTOXETHANOL	111-76-2		*
2-PROPANOL, 1-AMINO	78-96-6		*

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

Section 4: First-aid Measures

The following procedures are recommended as emergency first aid only. They are not intended to replace or supplant the treatment advice of a physician or other authorized health care specialist.

General advice:

Consult a physician.

Do not leave the victim unattended.

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim 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. Call a physician or poison control center immediately.

Skin contact:

Take off immediately all contaminated clothing. Wash with plenty of soap and water. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact:

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion:

Rinse mouth. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and delayed:

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Indication of immediate medical attention and special treatment needed:

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information:

Take off immediately all contaminated clothing. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Section 5: Fire-fighting Measures

Suitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Firefighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards Combustible liquid.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapors or spray mist. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

Section 7: Handling And Storage

Precautions for safe handling:

Keep away from open flames, hot surfaces and sources of ignition. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage:

Store locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

Section 8: Exposure Controls/Personal Protection

Occupational exposure limits:

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)		
Material	Type	Value
2-BUTOXYETHANOL (CAS111-76-2)	PEL	240 mg/m3 50 ppm
US. ACGIH Threshold Limit Values		
Material	Type	Value
2-BUTOXYETHANOL (CAS111-76-2)	TWA	20 ppm
US. NIOSH: Pocket Guide to Chemical Hazards		
Material	Type	Value
2-BUTOXYETHANOL (CAS111-76-2)	TWA	24 mg/m3 5 ppm

Biological limit values:

ACGIH Biological Exposure Indices				
Material	Value	Determinant	Specimen	Sampling Time
2-BUTOXYETHANOL (CAS111-76-2)	200 mg/g	Butoxyacetic acid (BAA), With hydrolysis	Creatinine in urine	

*- For sampling details, please see the source document.

Exposure guidelines:

US-California OEL's: Skin designation	
Material	Comment
2-BUTOXYETHANOL (CAS111-76-2)	Can be absorbed through the skin.
US-Minnesota Haz Subs: Skin designation applies	
Material	Comment
2-BUTOXYETHANOL (CAS111-76-2)	Skin designation applies.
US-Tennessee OEL's: Skin designation	
Material	Comment
2-BUTOXYETHANOL (CAS111-76-2)	Can be absorbed through the skin.
US NIOSH Pocket Guide to Chemical Hazards: Skin designation	
Material	Comment
2-BUTOXYETHANOL (CAS111-76-2)	Can be absorbed through the skin.
US. OSHA Table Z-1 Limits for Air Containments (29 CFR 1910.1000)	
Material	Comment
2-BUTOXYETHANOL (CAS111-76-2)	Can be absorbed through the skin.

Appropriate engineering controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment:

Eye/face protection:

Chemical respirator with organic vapor cartridge and full face piece.

Skin protection:

Hand protection:

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other:

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection:

Chemical respirator with organic vapor cartridge and full face piece.

Thermal hazards:

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations:

When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove

Section 9: Physical And Chemical Properties

Information on basic physical and chemical properties

Appearance:	Liquid
Color:	Colorless
Odor:	Ammonia
Odor Threshold:	N/A
pH:	11.4 @ 1 %
Freezing Point (Melting point/range):	Not Applicable
Freezing Point (Freezing Point):	1 °C (34 °F)
Boiling Point (Boiling point/boiling range):	159 °C (318 °F)
Flash point:	80 °C (176 °F)
Evaporation rate:	N/A
Flammability (solid, gas):	N/A
Burning rate:	N/A
Upper explosion limit:	N/A
Lower explosion limit:	N/A
Vapor pressure:	0.47 mmHg @ 25 °C (77 °F)
Relative vapor density:	2.594 @ 20 °C (68 °F)
Relative density	0.960 @ 20 °C (68 °F)
	Reference substance: (water=1)

Density:	7.95 lb/gal @ 25 °C (77 °F)
Bulk Density:	No Data Available
Solubility(ies)	Completely miscible
Solubility in other solvents:	No Data Available
Partition coefficient: n-Octanol/water	Log Pow: -0.93
Auto-ignition temperature	365 °C
Thermal decomposition	No Data Available
Viscosity	
Viscosity, dynamic	30.2 cps @ 20 °C (68 °F)

Section 10: Stability And Reactivity

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical Stability	Material is stable under normal conditions
Possibility of hazardous reactions:	Hazardous polymerization does not occur. Vapors may form explosive mixture with air. No decomposition if stored and applied as directed.
Conditions to avoid:	Heat, flames, and sparks, elevated temperatures, exposure to moisture.
Incompatible materials:	Strong acids, strong oxidizing agents, halogenated compounds, halogenated hydrocarbons, aluminum.
Hazardous decomposition products:	Nitrogen oxides, carbon dioxide and carbon monoxide.

Section 11: Toxicological Information

Information on likely routes of exposure

Inhalation	Fatal if inhaled
Skin contact	Toxic in contact with skin. Causes skin irritation. 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.
Eye contact	Causes serious eye irritation.
Ingestion	Harmful if swallowed
Symptoms related to the physical, chemical and toxicological characteristics	Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity	Fatal if inhaled. Toxic in contact with skin. Harmful if swallowed.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitization	
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall Evaluation of Carcinogenicity	
2-BUTOXYETHANOL (CAS 111-76-2)	3 Not classifiable as to carcinogenicity to humans.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	
Not listed.	
US. National Toxicology Program (NTP) Report on Carcinogens	
Not available.	

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity-single exposure	Not classified.
Specific target organ toxicity-repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard
Chronic effects	May be harmful if absorbed through skin. 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

Section 12: Ecological Information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product	Species	Test Results
2-BUTOXYETHANOL (CAS 111-76-2)		
Aquatic		
Fish	LC50 Inland silverside (Menidia beryllina)	1250 mg/1, 96 hours

Persistence and degradability	No data is available on the degradability of this product
Bioaccumulative potential	Partition coefficient n –octanol/water (log Kow) 0.83
Mobility in soil	No data available
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical, ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13: Disposal Considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Section 14: Transport Information

DOT

UN number	NA1993
UN proper shipping name	COMBUSTIBLE LIQUID, N.O.S. (ETHYLENE GLYCOL MONOBUTYL ETHER)
Transport hazard class(es)	
Class	COMBUSTIBLE LIQUID
Subsidiary risk	
Packing group	III
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

ERG number 128
 DOT information on packaging may be different from that listed.

DOT

Combustible Liquid

Section 15: Regulatory Information

US federal regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
 Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)
 Not listed.

SARA 304 Emergency release notification
 Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
 Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories: Immediate Hazard - Yes
 Delayed Hazard - No
 Fire Hazard - Yes
 Pressure Hazard - No
 Reactivity Hazard - No

SARA 302 Extremely hazardous substance
 Not listed.

SARA 311/312 Hazardous chemical
 Yes

SARA 313 (TRI reporting)
 Not regulated.

Other federal regulations:

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
 Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
 Not regulated.

Safe Drinking Water Act (SDWA)
 Not regulated

Section 16: Other Information

HMIS® Hazard Ratings: Health – 2 *, Flammability – 2, Chemical Reactivity – 0, Personal Protection – K

Revision Note

No Information available

Disclaimer

The information provided in this 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.

** HMIS® Rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this SDS must be considered.*

End of Safety Data Sheet