

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200

Revision Date: 11/20/15

Section 1: Identification

Product Identifier:

Product name: QuicKleen Window and Glass Cleaner
Product #: JLQKWG0401

Other means of Identification:

Chemical name: Isopropyl Alcohol

<u>CAS#</u>	<u>%</u>	<u>CAS NAME</u>	<u>HAZARD</u>
1336-21-6		Ammonia	
67-63-0		Isopropyl Alcohol	

Recommended Use:

Window and Glass Cleaner is recommended as a surface cleaner.

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 2
Serious eye Damage/eye irritation: : Category 2A
Specific target organ toxicity, single exposure: : Category 3 narcotic effects

Warning label items including precautionary statement:

Pictogram:



Signal words:

DANGER! WARNING!

Hazard Statement:

H225: Highly flammable liquid and vapor
H319: Causes serious eye irritation
H336: May cause drowsiness or dizziness

**Precautionary Statement
Prevention:**

- P210:** Keep away from heat/sparks/open flames/hot surfaces.-No Smoking
- P233** Keep container tightly closed.
- P240** Ground/bond container and receiving equipment.
- P241** Use explosion-proof electrical/ventilation/lighting equipment.
- P242** Use only non-sparking tools.
- P243** Take precautionary measures against static discharge
- P261** Avoid breathing mist or vapor.
- P264+P280** Wash thoroughly after handling.
- P271** Use only outdoors or in a well-ventilated area.
- P282** Wear protective gloves/eye protection/face protection.

Response:

- P303+** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P361+**
- P353**
- P304+** IF INHALE: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P340**
- P305+** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P351+**
- P338**
- P309+** IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
- P311**
- P337 +** If eye irritation persists: Get medical advice/attention.
- P313**
- P370 +** In case of fire: Use appropriate media to extinguish.
- P378**

Storage:

- P404 +** Store in a well-ventilated place. Keep container tightly closed
- P233**
- P403 +** Store in a well ventilated place. Keep cool.
- P235**
- P405** Store locked up

Disposal:

- P501** Dispose of contents/container in accordance with local/regional/national/international/ regulations

Hazards not otherwise classified (HNOC)



Supplemental Information None

Section 3: Composition/Information on Ingredients

Hazardous Components

Chemical Name *	CAS-No
2-PROPANOL	67-63-0

* 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.

<u>General advice:</u>	Consult a physician. Do not leave the victim unattended.
<u>Inhalation:</u>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
<u>Skin contact:</u>	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.
<u>Eye contact:</u>	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.
<u>Ingestion:</u>	Rinse mouth. Get medical attention if symptoms occur.
<u>Most important symptoms/effects, acute and delayed:</u>	May cause drowsiness and dizziness. Headache, nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
<u>Indication of immediate medical attention and special treatment needed:</u>	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
<u>General information:</u>	Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

Section 5: Fire-fighting Measures

Suitable extinguishing media	Alcohol resistant foam. Water fog. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may

	accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. 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	Highly flammable liquid and vapor.

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:	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage:	Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of

ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. 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-PROPANOL (CAS 67-63-0)	PEL	980 mg/m ³
		400 ppm
US. ACGIH Threshold Limit Values		
Material	Type	Value
2-PROPANOL (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
US. NIOSH: Pocket Guide to Chemical Hazards		
Material	Type	Value
2-PROPANOL (CAS 67-63-0)	STEL	1225 mg/m ³
	TWA	500 ppm
		980 mg/m ³
		400 ppm

Biological limit values:

ACGIH Biological Exposure Indices				
Material	Value	Determinant	Specimen	Sampling Time
2-PROPANOL (CAS 67-63-0)	40 mg/l	Acetone	Urine	*

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

Exposure guidelines:

Appropriate engineering controls:

Explosion-proof general and local exhaust ventilation. 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. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

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:	N/A
Odor Threshold:	N/A
pH:	Not Available
Melting Point/Freezing Point	-128 °F (-88.89 °C)
Boiling Point (Boiling point/boiling range):	180.82 °F (82.68 °C) estimated
Flash point:	50.0 °F (12.2 °C)
Evaporation rate:	Not Available
Flammability (solid, gas):	Not Available
Burning rate:	Not Available
Upper explosion limit:	12% estimated
Lower explosion limit:	2.5% estimated
Vapor pressure:	59.92 hPA estimated
Relative vapor density:	Not Available
Relative density	Not Available
Density:	6.55 lbs/gal
Bulk Density:	Not Available
Solubility(ies)	
Solubility in other solvents:	Not Available
Partition coefficient: n- Octanol/water	Not Available
Auto-ignition temperature	750.2 °F (399 °C) estimated
Thermal decomposition	Not Available
Viscosity	Not Available
Viscosity, dynamic	Not Available
Explosive properties	Not Explosive
Flammable Class	Flammable IB estimated
Oxidizing Properties	Not Oxidizing
Percent Volatile	100 % estimated
Specific Gravity	0.79
VOC (Weight %)	99 % estimated

Section 10: Stability And Reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage, and transport.
Chemical Stability	Material is stable under normal conditions
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials:	Acids. Strong oxidizing agents. Isocyanates. Chlorine.
Hazardous decomposition products:	No hazardous decomposition products are known.

Section 11: Toxicological Information

Information on likely routes of exposure

Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Causes serious eye irritation.
Ingestion	Expected to be a low ingestion hazard.
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 Narcotic effects.

Components	Species	Test Results
Acute		
Dermal		
LD50	Rabbit	12800 mg/kg
Oral		
LD50	Dog	4797 mg/kg
	Mouse	3600mg/kg
	Rabbit	5.03g/kg
	Rat	4.7 g/kg

*Estimates for product may be based on additional component data not shown

Skin corrosion/irritation	Prolonged skin contact may cause temporary 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.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	
Not listed.	
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	Prolonged inhalation may be harmful.

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-PROPANOL (CAS 67-63-0)		
Aquatic		
Fish	LC50 Bluegill (<i>Lepomis macrochirus</i>)	>1400 mg/l, 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	
Partition coefficient n –octanol/water (log Kow) 0.83		
2 – PROPANOL		0.05
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	UN1219
UN Proper Shipping Name	ISOPROPANOL
Transport hazard class(es)	
Class	3
Subsidiary	-
Packing Group	II
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
ERG Number	129

DOT Information on packaging may be different from that listed.

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)	
	Immediate Hazard-Yes
	Delayed Hazard-No
Hazard categories	Fire Hazard-Yes
	Pressure Hazard-No
	Reactivity Hazard-No
SARA 302 Extremely hazardous substance	Not listed
SARA 311/312 Hazardous	No Chemical
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 – 3, Chemical Reactivity – 0, Personal Protection – K

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