

Safety Data Sheet

Issue Date: 01-Nov-2012	Revision Date: 17-Dec-2014		Version
	1. IDENTIFICATION		
Product Identifier Product Name	SK-172		
Other means of identification SDS #	SK-172		
UN/ID No	UN1219		
Recommended use of the chemic Recommended Use	al and restrictions on use Solvent cleaner.		
Details of the supplier of the safe Supplier Address	ty data sheet		
193 Wall Street Road			
193 Wall Street Road Gunter, Texas 75058 <u>Emergency Telephone Number</u> Company Phone Number	Information: 903-207-1079, 7AM - 6PM M-F INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)		
193 Wall Street Road Gunter, Texas 75058 <u>Emergency Telephone Number</u> Company Phone Number	INFOTRAC 1-352-323-3500 (International)		
StartKleen 193 Wall Street Road Gunter, Texas 75058 Emergency Telephone Number Emergency Telephone (24 hr) Appearance Blue liquid	INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)		Odor Alcoho
193 Wall Street Road Gunter, Texas 75058 <u>Emergency Telephone Number</u> Company Phone Number Emergency Telephone (24 hr)	INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America) 2. HAZARDS IDENTIFICATION		Odor Alcoho
193 Wall Street Road Gunter, Texas 75058 <u>Emergency Telephone Number</u> Company Phone Number Emergency Telephone (24 hr)	INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America) 2. HAZARDS IDENTIFICATION Physical State Liquid	Category 2 Category 3	Odor Alcoho

<u>Signal Word</u> Danger

Hazard Statements

Causes serious eye irritation May cause drowsiness or dizziness Highly flammable liquid and vapor



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. — No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof equipment Use only non-sparking tools Take precautionary measures against static discharge Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
If skin irritation persists: Get medical advice/attention
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
IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Isopropyl Alcohol	67-63-0	100

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If irritation persists, seek medical attention.
Inhalation	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.
Ingestion	Do not induce vomiting. Drink 1 or 2 glasses of water. Immediately call a poison center or doctor/physician. Never give anything by mouth to an unconscious person.

Most important symptoms and effects

significant irritation; may cause drying and flaking of skin. Accidental inge amounts as a result of normal handling are not likely to cause injury; how large amounts may cause injury including central nervous system depres vomiting. Signs and symptoms of excessive ingestion may include facial to pressure, and irregular heartbeat. In poorly ventilated areas, vapors or m accumulate and cause respiratory irritation. Prolonged, excessive inhalati cause adverse effects. Excessive exposure (400 ppm) to isopropanol ma or throat irritation. Incoordination, confusion, hypotension, hypothermia, c respiratory arrest, and death may follow a longer duration or higher levels Aspiration into the lungs may occur during ingestion or vomiting, causing even death due to chemical pneumonia.
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Notes to Physician Maintain adequate ventilation and oxygenation of the patient. The decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying stomach. Hemodialysis may be of benefit if substantial amounts have been ingested and the patient is showing signs of intoxication. Consider hemodialysis for patients with persistent hypotension or coma unrepsonsive to standard therapy (Isopropanol levels >400-500 mg/dl). No specific antidote. Treatment of exposure should be directed at the control of symptoms and clinical condition of the patient. Skin contact may aggravate preexisting dermatitis; use recommended protective equipment listed in Section 8.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Do not use direct water stream. Straight or direct water streams may not be effective to extinguish fire. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Highly flammable liquid and vapor. Container may vent and/or rupture due to fire. When product is stored in closed containers, a flammable atmosphere can develop. Electrically ground and bond all equipment. Flammable mixtures of this product are readily ignited even by static discharge. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Flammable concentrations of vapor can accumulate at temperatures above the flash point.

Sensitivity to Static Discharge Take precautionary measures against static discharge.

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. Keep people away. Isolate fire and deny unnecessary entry. Stay upwind. Keep out of low areas where gases (fumes) can accumulate. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Eliminate ignition sources. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Move container from fire area if it can be done without risk.

6. ACCIDENTAL RELEASE MEASURES Personal precautions, protective equipment and emergency procedures Personal Precautions Use personal protection recommended in Section 8. Environmental Precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS. Methods and material for containment and cleaning up Prevent further leakage or spillage if safe to do so. A vapor suppressing foam may be used to reduce vapors. Methods for Clean-Up Contain and collect with an inert absorbent and place into an appropriate container for disposal. T. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion proof equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Do not flame, cut, braze weld or melt empty containers. Never use air pressure for transferring product.
Conditions for safe storage, incl	uding any incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Protect from direct sunlight. Protect from exposure to air. Store away from incompatible materials. Store locked up.
Incompatible Materials	Aldehydes. Halogenated organics. Halogens. Strong acids. Strong oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl Alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³

Appropriate engineering controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Wear chemical goggles. If exposure causes eye discomfort, use a full-face respirator.
Skin and Body Protection	Chemical resistant protective gloves. Suitable protective clothing.
Respiratory Protection	Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. When respiratory protection is required, use an approved positive-pressure self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus. In confined or poorly ventilated areas, use an approved self-contained breathing apparatus or positive pressure air line with auxiliary self-contained breathing apparatus or positive pressure air line with auxiliary self-contained air supply. The following should be effective types of air-purifying respirators: organic vapor cartridge.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Appearance Color	Liquid Blue liquid Blue	Odor Odor Threshold	Alcohol Not determined
Property pH Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point Evaporation Rate Flammability (Solid, Gas) Upper Flammability Limits Lower Flammability Limit	ValuesNot test data available $-89 °C / -128 °F$ $82 °C / 180 °F$ $12 °C / 54 °F$ Not determinedLiquid-Not applicable 12.0% 2.0%	Remarks • Method (at 760 mm Hg) Tag Closed Cup	
Vapor Pressure Vapor Density Specific Gravity	33 mmHg @ 20°C 2.1 0.787 @ 20°C	(Air=1) (Water = 1)	
Water Solubility Solubility in other solvents Partition Coefficient Auto-ignition Temperature Decomposition Temperature	100% @ 20°C Not determined Not determined 399 °C / 750 °F Not determined		
Kinematic Viscosity Dynamic Viscosity Explosive Properties Oxidizing Properties	Not determined 2.4 cPs @ 20°C Not determined Not determined		

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Thermally stable at typical use temperatures.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Keep separated from incompatible substances. Keep away from heat, sparks and open flame. Keep out of reach of children.

Incompatible Materials

Aldehydes. Halogenated organics. Halogens. Strong acids. Strong oxidizers.

Hazardous Decomposition Products

Decomposition products depend upon temperature, air supply, and the presence of other materials.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	
Eye Contact	Causes serious eye irritation.
Skin Contact	Avoid contact with skin.
Inhalation	May be harmful if inhaled. May cause drowsiness or dizziness.
Ingestion	May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl Alcohol	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rat) = 12870	= 72.6 mg/L (Rat) 4 h
67-63-0		mg/kg (Rabbit)	

Information on physical, chemical and toxicological effects

Symptoms

Please see section 4 of this SDS for symptoms.

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

Carcinogenicity

Group 3 IARC components are "not classifiable as human carcinogens".

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl Alcohol 67-63-0		Group 3		X

Legend

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

STOT - single exposure

May cause drowsiness or dizziness.

Numerical measures of toxicity

Not determined

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.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Isopropyl Alcohol 67-63-0	1000: 96 h Desmodesmus subspicatus mg/L EC50 1000: 72 h Desmodesmus subspicatus mg/L EC50	9640: 96 h Pimephales promelas mg/L LC50 flow-through 11130: 96 h Pimephales promelas mg/L LC50 static 1400000: 96 h Lepomis macrochirus µg/L LC50		13299: 48 h Daphnia magna mg/L EC50

Persistence/Degradability

Material is readily biodegradable.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Isopropyl Alcohol	0.05
67-63-0	

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Isopropyl Alcohol	Toxic
67-63-0	Ignitable

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No	UN1219
Proper Shipping Name	Isopropanol
Hazard Class	3
Packing Group	II
ΙΑΤΑ	
UN/ID No	UN1219
Proper Shipping Name	Isopropanol
Hazard Class	3
Packing Group	II
IMDG	
UN/ID No	UN1219
Proper Shipping Name	Isopropanol
Hazard Class	3
Packing Group	II

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Isopropyl Alcohol	Present	Х		Present		Present	Х	Present	Х	Х

Legend:

TSCA - 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 Chemical Substances/European 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

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Not determined

<u>SARA 313</u>

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Isopropyl Alcohol - 67-63-0	67-63-0	100	1.0

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Isopropyl Alcohol	Х	X	Х
67-63-0			

Not determined

16. OTHER INFORMATION NFPA Health Hazards Flammability Instability Special Hazards 1 3 0 Not determined HMIS Health Hazards Flammability Physical Hazards Personal Protection

Not determined

Issue Date:	01-Nov-2012
Revision Date:	17-Dec-2014
Revision Note:	New format

Not determined

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.

End of Safety Data Sheet