Safety Data Sheet

Section 1 – Product and Company Information

Product Identifiers

Name	**Hand Sanitizer**
Number	
Brand	Kramer Industries
Recommended use	Hand Sanitizer
Restrictions on use	This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

Supplier

Name	Kramer Industries, Inc.
Address	140 Ethel Road West, Unit U, Piscataway, NJ 08854 http://www.KramerInd.com
Telephone	(732) 650-9599
Prepared/Revised	April 20, 2020

Section 2 – Hazards Identification

Classification of the substance or mixture.

Physical Hazards:	Flammable Liquids (Category 2) H225
Hazards:	Eye Damage / Irritation (Category 2A) H319 Specific Target Organ Toxicity (Single Exposure) (Category 3) H336
Environment:	Not Classified

GHS label elements and precautionary statements.

Pictogram	Flame - Exclamation Mark
Signal word	**DANGER**
Prevention	Keep away from heat, sparks, open flames and hot surfaces. No smoking. Wear protective gloves/protective clothing/eye protection/face protection. In case of fire: Use dry chemical, foam or water fog to extinguish. Do not use direct water stream. Wash skin thoroughly after handling. Avoid breathing dust/gas/fume/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear eye protection/ face protection.
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 INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor/ Seek immediate medical attention if you feel unwell
Storage	Store in a well-ventilated place. Store locked up.
Disposal	Dispose of container or contents in accordance with all regulations.

Hazards not otherwise classified not covered by GHS - None

Supplemental Information. See Section 16 for alphanumeric H-Statements and P-Statements.

Section 3 – Composition/Information on Ingredients

Component	CAS Number	%Wt.
Isopropyl Alcohol	67-63-0	75
Glycerol	56-81-5	<2
Hydrogen Peroxide	7722-84-1	<0.2
Water	7732-18-5	<20

Section 4 – First Aid Measures

Description of first aid measures
General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin contact: Avoid lengthy skin contact. Wash off with soap and water as soon as practicable after use.
In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects, both acute and delayed: See Sections 2 and 11.
Indication of any immediate medical attention and special treatment needed: None known.
Poison Control: 1-800-222-1222

Section 5 – Fire Fighting Measures

Extinguishing media
Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture: May form toxic vapor/air mixtures.
Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.
Further information: If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA Fire Brigades Standard (29 CFR 1910.156).

Section 6 – Accidental Release Measures

Emergency Actions; Use personal protective equipment. Avoid breathing aerosols, mist or gas. Ensure adequate ventilation. Environmental precautions: Do not let product enter drains.
Methods and materials for containment and cleaning up: Vacuum large spills. Dispose of as hazardous waste. Keep in suitable, closed containers for disposal. If employees are required to clean-up spills, they must be properly trained and equipped. The OSHA Hazardous Waste Operations and Emergency Response Standard (29 CFR 1910.120) may apply.
Reference to other sections: For personal protection see Section 8. For disposal see Section 13.

Section 7 – Handling and Storage

Handling: Keep away from naked flames/heat. Keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed.
Storage: Keep container tightly closed in a dry and well-ventilated place.
Specific end uses: See Section 1.

Section 8 – Exposure Control and Personal Protection

Control parameters
Components with workplace control parameters:
Isopropyl Alcohol (67-63-0): 200 ppm 492 mg/m3 TLV ACGIH 400 ppm 984 mg/m3 STEL ACGIH 400 ppm 980 mg/m3 PEL OSHA 400 ppm 980 mg/m3 REL NIOSH 500 ppm 1225 mg/m3 STEL NIOSH
Glycerol (56-81-5): TWA 5 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants PEL 10 mg/m3 California permissible exposure limits for chemical contaminants (Title 8, Article 107) PEL 5 mg/m3 California permissible exposure limits for chemical contaminants (Title 8, Article 107)
Hydrogen peroxide (7722-84-1): TWA 1 ppm 1.4 mg/m3 USA. NIOSH Recommended Exposure Limits TWA 1 ppm 1.4 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants The value in mg/m3 is approximate. PEL 1 ppm 1.4 mg/m3 California permissible exposure limits for chemical contaminants (Title 8, Article 107)
Engineering Controls: Not normally needed except if product use creates aerosols ore mists requiring adequate ventilation respiratory protection describe below. The use of local exhaust ventilation is recommended to control emissions near the source. Provide appropriate ventilation of confined spaces. Use explosion-proof ventilation equipment.
Eye and Face: Dust can cause eye and, or skin irritation. Wear safety glasses.
Skin: Frequent or prolonged contact may irritate the skin and cause a skin rash
Respiratory Protection: If adequate ventilation is not possible, then a self-contained breathing apparatus or an air supplied respirator is recommended. Respiratory Protection using a NIOSH approved dust mask is recommended where dust creation is likely. Respirators should only be used if the employer has implemented a written program that considers workplace conditions, requirements for worker training, respirator fit testing, and medical exams, as described in the OSHA Respiratory Protection Standard (29 CFR 1910.134).
General: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Control of environmental exposure: Do not let product enter drains.

Section 9 – Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance (physical state, color, etc.)	Clear, colorless liquid.
Odor	Alcohol-like.
Odor threshold	Not Available
pH Neutral Melting point/freezing point	-29°C (-20°F)
Initial boiling point and boiling range	82.5°C (180.5°F) (Isopropanol)
Flash point	CLOSED CUP: 18.3°C (64.9°F)
Evaporation	Rate Not Available
Flammability (solid, gas)	Flammable
Flammability or explosive limit	LOWER: 2% UPPER: 12.7% (Isopropanol)
Vapor pressure	Not Available
Vapor density	Not Available
Density	0.8411 (Water = 1)
Solubility	Easily soluble in cold water, hot water, methanol, diethyl ether, n-octanol, acetone.
Partition coefficient:	n-octanol/water Not Available
Auto-ignition temperature	399°C (750.2°F) (Isopropanol)
Decomposition temperature	Not Available

Note: Physical Data is typical values based on material tested but may vary based on composition. Values should not be accepted as guaranteed for every lot or as specifications for this product.

Section 10 – Stability and Reactivity

Reactivity: Does not react under normal conditions of use.
Chemical Stability: Stable under normal conditions of use.
Possibility of hazardous reactions: Vapors may form explosive mixture with air.
Conditions to avoid: Heat, flames and sparks.
Incompatible materials: Alkali metals, Ammonia, Oxidizing agents, Peroxides Strong oxidizing agents **Hazardous decomposition products**: Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products: In the event of fire: see section 5.

Section 11 – Toxicity Information

Information on Toxicological Effects
Acute toxicity – Inhalation – Dermal - Skin corrosion/irritation - Respiratory or skin sensitization - Germ cell mutagenicity - Reproductive toxicity - Specific target organ toxicity - single exposure
Specific target organ toxicity - repeated exposure - Aspiration hazard – No Data Available
Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
Additional Information
RTECS: KQ6300000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12 – Ecological Information

Ecotoxicity:
Components:
Isopropanol (67-63-0): LC50 fishes 1 4200 mg/l (96 h; Rasbora heteromorpha; Flow-through system) EC50 Daphnia 1 > 10000 mg/l (48 h; Daphnia magna) LC50 fish 2 9640 mg/l (96 h; Pimephales promelas; Lethal)
EC50 Daphnia 2 13299 mg/l (48 h; Daphnia magna) Threshold limit algae 1 > 1000 mg/l (72 h; Scenedesmus subspicatus; Growth rate) Threshold limit algae 2 1800 mg/l (72 h; Algae; Cell numbers)
Persistence and degradability Persistence and degradability Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available. Biochemical oxygen demand (BOD) 1.19 g O^2/g substance Chemical oxygen demand (COD) 2.23 g O^2/g substance ThOD 2.40 g O^2/g substance BOD (% of ThOD) 0.49 % ThOD Bio-accumulative Potential Log Pow 0.05 (Experimental value) Bio-accumulative potential Low potential for bioaccumulation (Log Kow < 4).
Mixture:
12.1 Toxicity 12.2 Persistence and degradability - 12.3 Bioaccumulative potential - 12.4 Mobility in soil
12.5 Results of PBT and vPvB assessment – 12.6 Other adverse effects – All No data available

Section 13 – Disposal Consideration

Product: Contact a licensed professional waste disposal service to dispose of this material. Product Offer surplus and non-recyclable solutions to a licensed disposal company. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging: Dispose of as unused product.

Section 14 – Transport Information

US DOT	UN1219, Isopropanol, 3, PG II
TDG	UN1219, ISOPROPANOL, 3, PG II
IMDG	UN1219, ISOPROPANOL, 3, PG II
Marine Pollutant	No
IATA/ICAO	UN1219, Isopropanol, 3, PG II

US DOT Shipping Classification: Flammable Liquid, Consumer Commodity. Limited Quantity May Apply – Refer to §173.150 Exceptions for Class 3 (flammable and combustible liquids) and with shipper.

Section 15 – Regulatory Information

TSCA Inventory Status All ingredients are listed on the TSCA inventory.
DSCL (EEC) All ingredients are listed on the DSCL inventory.
SARA 302 Not Listed
SARA 304 Not listed
SARA 311 Fire Hazard, Acute Health Hazard, Chronic Health Hazard
SARA 312 Fire Hazard, Acute Health Hazard, Chronic Health Hazard
SARA 313 Listed: Isopropyl Alcohol
States: PA RTK: IPA – Water **- California Proposition 65** Not Listed
WHMIS Canada Class B-2: Flammable and combustible liquid- Flammable liquid
Class D-2B: Poisonous and infectious material- Other effects- Toxic

Section 16 – Other Information

Alphanumeric H-Statements and P-Statements.
H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P261: Avoid breathing dust/gas/fume/mist/vapors/spray.
P264 Wash skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P304-P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Immediately call a POISON CENTER/doctor/ Seek immediate medical attention if you feel unwell
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.
P501: Dispose of contents/container in accordance with applicable regulations.

Disclaimer
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product regarding appropriate safety precautions. It does not

Potential Health Effects
This product is a mixture for which no specific health hazard data exists. OSHA requires that one should assume such mixtures present the same health hazards as do any components present in amounts greater than 1% (0.1% for carcinogens). Consumers accessing our SDS information should keep in mind the information is presented in a format required by the U.S. Government's Occupational Safety and Health Administration (OSHA). We provide SDS as a service for our business customers. These industrial SDSs are not applicable to consumer use of these products. For more information: https://www.cpsc.gov/Business--Manufacturing/Business-Education/Business-Guidance/FHSA-Requirements