Kira Labs Inc.
Safety Data Sheet

Section 1, Identification

Product Code: 1102908, 1102912, 1102913, 1102914
Material: Medyskin Hand Sanitizer 30mL, 480mL, 960mL, 240mL (70% v/v) (SDA-40B)
Synonyms: F5000
Company Contact: Kira Labs Inc. 954-978-4549

Section 2, Hazard(s) identification

GHS Classification **Flammable liquids: Category 3**
Eye irritation, Category 2A

Pictogram

GHS Signal Word WARNING
GHS Hazard Statements H226 Flammable liquid and vapor.
H319 Causes serious eye irritation.

GHS Precautionary Statements

Prevention: P102 Keep out of reach of children.
P210 Keep away from heat/sparks/open flames/hot surfaces. No Smoking
P233 Keep container tightly closed.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/eye protection/face protection.
Response: P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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 attention immediately.
Storage: P403 + P235 Store in a well-ventilated place. Keep cool.
Disposal: P501-Dispose of contents and container according to the local, city, state, and federal regulations.

Other hazards:
Vapors may form explosive mixture with air.

Section 3, Composition/information on ingredients

Substance / Mixture : Mixture

CAS#	Hazardous components (Chemical Name)	Concentration
64-17-5	Ethanol	>=50 - <70

Section 4, First-aid measures

General advice: In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.

If inhaled: If inhaled, remove to fresh air.
Get medical attention if symptoms occur.

In case of skin contact: Wash with water and soap as a precaution. Get medical attention if symptoms occur.

Section 5, Fire-fighting measures

Suitable extinguishing media : Water spray
Alcohol-resistant foam
Dry chemical
Carbon dioxide (CO2)

Unsuitable extinguishing media: High volume water jet

Specific hazards during fire fighting: Do not use a solid water stream as it may scatter and spread fire.
Flash back possible over considerable distance.
Vapors may form explosive mixtures with air.
Exposure to combustion products may be a hazard to health.

Hazardous combustion products:	Carbon oxides
Specific extinguishing methods:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters :	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Section 6, Accidental release measures

Personal precautions:	Remove all sources of ignition.
protective equipment and emergency procedures:	Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions:	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up:	Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mists with a water spray jet. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

Section 7, Handling and storage

Technical measures:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation:	Use with local exhaust ventilation. Use only in an area equipped with explosion proof exhaust ventilation.
Advice on safe handling:	Do not breathe vapors or spray mist. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice. Non-sparking tools should be used. Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage:	Keep in properly labeled containers. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.
Materials to avoid:	Do not store with the following product types: Strong oxidizing agents Organic peroxides Flammable solids Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures which in contact with water emit flammable gases

Explosives
Gases

Section 8, Exposure controls/personal protection

Ingredients with workplace control parameters

Ingredients	CAS No.	Value type (Form of exposure)	Control parameters/Permissible Concentration	Basis
Ethanol	64-17-5	TWA	1,000ppm 1,900mg/m3	NIOSH REL
		TWA	1,000ppm 1,900mg/m3	OSHA Z-1
		STEL	1,000ppm	ACGIH

Engineering measures: Minimize workplace exposure concentrations.
Use only in an area equipped with explosion proof exhaust ventilation.
Use with local exhaust ventilation.

Personal protective equipment

Respiratory protection: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand Protection Material: Impervious gloves
Flame retardant gloves

Remarks: Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Eye protection: Wear the following personal protective equipment:
Safety goggles

Skin and body protection: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Wear the following personal protective equipment:
Flame retardant antistatic protective clothing.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Hygiene measures: Ensure that eye flushing systems and safety showers are located close to the working place.
When using do not eat, drink or smoke.
Wash contaminated clothing before re-use.

Section 9, Physical and Chemical Properties

Appearance: Liquid
Color: Colorless
Odor: Alcohol
pH: 7.00-8.00
Flash Point: 25C
Viscosity: 2,500-5,000cPs
Melting point/freezing point: No data available
Initial boiling point and boiling range: 70C
Evaporation rate: : No data available
Flammability (solid, gas): Not applicable
Upper explosion limit: No data available
Lower explosion limit : No data available

Vapor pressure: No data available
Relative vapor density: No data available
Partition coefficient: n-octanol/water: Not applicable
Autoignition temperature: No data available
Decomposition temperature: No data available
Explosive properties: Not explosive
Oxidizing properties: The substance or mixture is not classified as oxidizing.

Section 10, Stability and reactivity

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known

Section 11, Toxicological information

Information on likely routes of exposure
Inhalation
Skin contact
Ingestion
Eye contact
Acute toxicity
Not classified based on available information.
Product:
Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method
Ethanol:

Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	: LC50 (Rat): 124.7 mg/l Exposure time: 4 h Test atmosphere: vapor

Skin corrosion/irritation
Not classified based on available information.
Product:
Result: No skin irritation
Ethanol:
Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
Serious eye damage/eye irritation
Causes serious eye irritation.
Ethanol:
Species: Rabbit
Result: Irritation to eyes, reversing within 21 days
Method: OECD Test Guideline 405
Respiratory or skin sensitization
Skin sensitization: Not classified based on available information. Respiratory sensitization: Not classified based on available information.
Product:
Assessment: Does not cause skin sensitization.
Ethanol:
Test Type: Local lymph node assay (LLNA)
Routes of exposure: Skin contact
Species: Mouse
Result: negative
Germ cell mutagenicity
Not classified based on available information.
Ethanol:

Genotoxicity in vitro	: Test Type: In vitro mammalian cell gene mutation test Result: negative
Genotoxicity in vivo	: Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: negative

Carcinogenicity
Not classified based on available information.
Reproductive toxicity
Not classified based on available information.
Ethanol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 416
Result: negative

STOT-single exposure
Not classified based on available information.
STOT-repeated exposure
Ethanol:
Species: Rat
NOAEL: 2,400 mg/kg
Application Route: Ingestion Exposure time: 2 y
Aspiration toxicity
Not classified based on available information.

Section 12, Ecological information*

Ecotoxicity

Toxicity to fish	LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 48 h
Toxicity to algae	EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC (Daphnia magna (Water flea)): 9.6 mg/l Exposure time: 9 d
Toxicity to bacteria	EC50 (Photobacterium phosphoreum): 32.1 mg/l Exposure time: 0.25 h

Persistence and degradability
Ethanol:

Biodegradability	Result: Readily biodegradable. Biodegradation: 84 % Exposure time: 20 d

Bioaccumulative potential
Ethanol:

Partition coefficient: noctanol/water	log Pow: -0.35

Mobility in soil
No data available
Other adverse effects
No data available

Section 13, Disposal considerations*

Disposal methods

Waste from residues	Dispose of in accordance with local regulations.
Contaminated packaging	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum.

Section 14, Transport information*

International Regulation
UNRTDG

UN number	UN 1987
Proper shipping name	ALCOHOLS, N.O.S. (Ethanol)
Class	3
Packing group	III
Labels	3

IATA-DGR

UN/ID No.	UN 1987
Proper shipping name	ALCOHOLS, N.O.S. (Ethanol)
Class	3
Packing group	III
Labels	Flammable Liquids
Packing instruction (cargo aircraft)	366
Packing instruction (passenger aircraft)	355

IMDG-Code

UN number	UN 1987
Proper shipping name	ALCOHOLS, N.O.S. (Ethanol)
Class	3
Packing group	III
Labels	3
EmS Code	F-E, S-D

Marine pollutant no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number	UN 1987
Proper shipping name	ALCOHOLS, N.O.S.
Class	3
Packing group	III
Labels	Flammable Liquids
ERG Code	127

Section 15, Regulatory information

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	Fire Hazard
	Acute Health Hazard
SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	The following components are subject to reporting levels established by SARA Title III, Section 313:

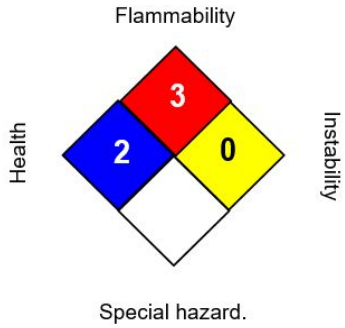
The ingredients of this product are reported in the following inventories:

AICS	All ingredients listed or exempt.

Section 16, Other information

Further Information:

NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date: 04-23-2020

Additional Information About No data available

Company Policy or Disclaimer: The manufacturer believes the data set forth are accurate and makes no warranty with respect thereto and disclaims all liability for reliance thereon. Such data are offered solely for consideration, investigation and verification. Also, the data set forth is for the concentrated finished product. All lab samples are for experimental purposes only and used at the customer's discretion.