

SANI-E80
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SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label : **SANI-E80**

Other means of identification : Sanitizer 80% Ethanol, Alcohol antiseptic 80% topical solution, Hand sanitizer Non-sterile solution

Recommended use : Sanitizer

Chemical family : Mixture

Supplier details and information : **Mironova Labs, Inc.**
21 Just Road Fairfield, NJ, USA 07004
(973) 244-0393 (Monday to Friday 9:00 am to 6:00 pm)
info@mironova.com
www.mironovalabs.com

Manufacturer details and information: Refer to supplier

24 Hour Emergency Tel # : Industrial Environmental Contracting (IEC) - Phone: (732) 662-7222

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 2

Eye irritation : Category 2A

Specific target organ toxicity – single exposure : Category 3 (Respiratory system, Central nervous system)

GHS Label elements

Hazard pictogram(s) :



Signal Word : Danger

Hazard statement(s) : H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

Precautionary statement(s)
Prevention :

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ eye protection/ face protection.

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- Response** : P303 + P361 + P353 IF ON SKIN (or hair): Remove/ take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312 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.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
- Storage** : P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool
P405 Store locked up.
- Disposal** : P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

- 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.
- ACGIH** : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- OSHA** : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
- 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.

Emergency Overview

Appearance	Liquid
Color	Colorless
Odor	Alcohol-like, sweet
Hazard Summary	No information available.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture hazardous components

Chemical name	Common name and synonyms	CAS #	Concentration (% by volume)	Hazard
*Ethanol	Ethyl alcohol, alcohol, EtOH	64-17-5	75-85%	Flam. Liq. 2, Eye irrit. 2A STOTSE 3 (Respiratory, CNS)
Hydrogen Peroxide	Dioxidane, perhydroxic acid, oxygenated water, H ₂ O ₂	7722-84-1	0.125%	Ox. Liq. 1, H271 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314

*Note the product may contain pure ethanol 200, denatured ethanol 200 (with isopropanol), or denatured ethanol 40-B per FDA guidance in response to COVID-19 pandemic and current limited supply of pure ethanol 200 or denatured ethanol 200.

Components not listed are either non-hazardous or below reportable limits.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

<i>General advice</i>	:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance Do not leave the victim unattended.
<i>Ingestion</i>	:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Inhalation	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
Skin contact	:	Wash affected areas with water. Take off contaminated clothes and wash before reuse.
Eye contact	:	Flush eyes with large amounts of water as a precaution. Remove contact lenses. Protect unharmed eye. If eye irritation persists, seek medical attention.

Most important symptoms and effects, both acute and delayed

: Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing.

Indication of immediate medical attention and special treatment

: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

<i>Suitable extinguishing media</i>	:	Alcohol resistant foam, Carbon dioxide (CO ₂), Dry Chemical
<i>Unsuitable extinguishing media</i>	:	Do not use a high-volume water stream.
<i>Specific hazards during firefighting</i>	:	Do not allow run-off from fire fighting to enter drains or water courses.

Special hazards arising from the substance or mixture / Conditions of flammability

: Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure

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- Specific extinguishing methods** : Use a water spray to cool fully closed containers.
- NFPA Flammable and Combustible: Liquids Classification** : Flammable Liquid Class IB
- Hazardous combustion products** : No hazardous combustion products are known.
- Further information** : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
- Special protective equipment and precautions for firefighters** : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. A full-body chemical resistant suit should be worn.
- Special fire-fighting procedures** : Evacuate personnel to safe areas.
Move containers from fire area if safe to do so.
Water spray may be used in cooling equipment exposed to heat/ flame.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures:** All persons dealing with clean-up should wear the appropriate protective equipment. Keep all other personnel upwind and away from the release. Restrict access to area until completion of clean-up. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading. If product contaminates rivers/ lakes/ drains inform respective authorities.
- Methods and material for containment and cleaning up** : Ventilate the area. Prevent further leakage or spillage if safe to do so. Collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Contact the proper local authorities.
- Special spill response procedures** : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone:1-800-424-8802).

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SECTION 7. HANDLING AND STORAGE

- Precautions for safe handling** : Use in a well-ventilated area. Provide sufficient air exchange and/or exhaust in work rooms. Open only under exhaust ventilator hood. Open drum carefully as content may be under pressure. Avoid formation of aerosol. Keep away from heat and flame. Take precautionary measures against static discharges. Smoking, eating and drinking should be prohibited in the application area. Label containers appropriately. Keep containers closed when not in use.
- Conditions for safe storage** : No smoking in the area. Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Keep container tightly closed. Inspect periodically for damage or leaks. Containers that are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Incompatible materials** : Alkali metals.
Ammonia.
Oxidizing agents.
Peroxides.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Component	CAS #	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol	64-17-5	TWA	1000 ppm	ACGIH
		TWA	1000 ppm 1900 mg/m ³	NIOSH REL
		TWA	1000 ppm 1900 mg/m ³	OSHA Z-1
		TWA	1000 ppm 1900 mg/m ³	OSHA P0
		STEL	1000 ppm	ACGIH
Hydrogen Peroxide	7722-84-1	TWA	1 ppm 1.4 mg/m ³	ACGIH
		TWA	1 ppm 1.4 mg/m ³	OSHA
		IDLH	75 ppm	IDLH US
		TWA	1 ppm 1.4 mg/m ³	NIOSH

Exposure controls and personal protective equipment

Ventilation and engineering measures : Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapours below their threshold limit value.

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<i>Respiratory protection</i>	:	No personal respiratory protective equipment normally required. Respiratory protection is required if the concentrations exceed the TLV. Use a NIOSH approved dust respirator if dust levels exceed exposure limits. Seek advice from respiratory protection specialists.
<i>Skin protection (hand/ body)</i>	:	Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Impervious clothing. Chose body protection according to the amount and concentration of the dangerous substance at the workplace.
<i>Eye and face protection</i>	:	Wear safety glasses with side shields (or goggles).
<i>Other protective equipment</i>	:	An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.
<i>General hygiene considerations</i>	:	Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid
Odor	:	Alcohol-like, sweet
Odor threshold	:	No information available
pH	:	No information available
Melting Point/Freezing point	:	-114.1°C (-173.4°F)
Boiling point and boiling range	:	79°C (174°F) (1013 hPa)
Flash point	:	12°C (54°F)
Flashpoint (Method)	:	Not applicable
Evaporation rate	:	Expected to be rapid
Flammability (solid, gas)	:	Not applicable
Burning rate	:	No information available
Lower explosion limit	:	3.3% (by volume 100% ethanol)
Upper explosion limit	:	19% (by volume 100% ethanol)
Oxidizing properties	:	No information available
Vapour pressure	:	60 hPa @ 20°C (68°F)
Relative Vapour density	:	1.6
Relative density / Specific gravity	:	0.789 @ 20°C (68°F) (ethanol component)
Density	:	0.849 g/cm ³ @ 20°C (68°F)
Bulk density	:	No information available
Solubility in water	:	Completely soluble
Other solubility(ies)	:	Miscible in many other organic solvents
Partition coefficient:		
n-octanol/water	:	No information available
Auto-ignition temperature	:	No information available
Thermal decomposition	:	No information available
Viscosity	:	Water thin
Volatiles (% by weight)	:	No information available
Flame projection length	:	Not applicable
Other physical/chemical comments :		No additional information

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SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No hazards to be specially mentioned.
Conditions to avoid	:	Extremes of temperature and direct sunlight. Heat, flames and sparks. Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials. Avoid dust formation.
Incompatible materials	:	Avoid contact with incompatible materials (see Section 7).
Hazardous decomposition products	:	None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Information on likely routes of exposure:

<i>Inhalation</i>	:	Prolonged inhalation may be harmful.
<i>Skin contact</i>	:	Prolonged skin contact may cause temporary irritation.
<i>Eye contact</i>	:	Causes serious eye irritation.
<i>Ingestion</i>	:	Expected to be low ingestion hazard due to denaturant.

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

<i>Sign and symptoms Inhalation</i>	:	Not expected to be acutely toxic.
<i>Sign and symptoms ingestion</i>	:	Not expected to be acutely toxic.
<i>Sign and symptoms skin</i>	:	No adverse effects due to skin contact are expected.
<i>Sign and symptoms eyes</i>	:	Direct contact causes serious eye irritation – stinging and tearing.

Potential Chronic Health Effects:

<i>Skin corrosion/ irritation</i>	:	Prolonged skin contact may cause temporary irritation, itching, or cracking of the skin.
<i>Inhalation</i>	:	Prolonged inhalation may be harmful.

Mutagenicity : No information available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity : No components are listed as carcinogens by IARC, OSHA or NTP. Only drinking of alcoholic beverages is listed. Denaturing removes that risk.

Reproductive effects and teratogenicity : Not expected to cause reproductive or developmental effects.

Sensitization to material : Not expected to be a skin or respiratory sensitizer.

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IARC Monographs	:	Not listed. Only drinking of alcoholic beverages is listed. Denaturing removes that risk.
NTP Report on Carcinogens	:	Not Listed.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)	:	Not regulated.
Specific organ toxicity		
- <i>single exposure</i>	:	Not classified.
- <i>repeated exposure</i>	:	Not classified.
Medical conditions aggravated by overexposure	:	Possibly pre-existing skin, eye, and respiratory disorders.
Synergistic materials	:	No information available.
Aspiration hazard	:	Not an aspiration hazard.
Toxicological data	:	There is no available data for the product itself.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : No available data for the product itself. Component ecotoxicity information below.

Component	CAS #	Toxicity to Fish LC50 (Pimephales promelas (fathead minnow))		
		Dosage	Exposure time	Test type
*Ethanol	64-17-5	15,300 mg/L	96 hr	Flow-through test

Component	CAS #	Toxicity to daphnia and other aquatic invertebrates EC50 (Ceriodaphnia dubia)		
		Dosage	Exposure time	Test type
*Ethanol	64-17-5	5,012 mg/L	48 hr	Static test

Component	CAS #	Toxicity to algae EC50 (Chlorella vulgaris (freshwater algae))		
		Dosage	Exposure time	Test type
*Ethanol	64-17-5	275 mg/L	72 hr	Static test
	End point: Growth rate	Method: OECD Test Guideline 201	GLP: No information available.	

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Persistence and degradability : No available data for the product itself. Component information below.

Component	CAS #	Biodegradability
*Ethanol	64-17-5	Readily biodegradable.

Bioaccumulation potential : No available data for the product itself. Component information below.

Component	CAS #	Bioaccumulation
*Ethanol	64-17-5	Bioaccumulation is unlikely.

Mobility in soil : No available data for the product or components.

Other adverse effects : No available data for the product or components.

Product:

Regulation : 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone – CAA Section 602 Class I Substances

Remarks : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).

Additional ecological information : No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle waste according to recommendations in Section 7.

Methods of Disposal

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

RCRA : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group
TDG	UN1987	Alcohols, n.o.s.	3	II
49 CFR / DOT	UN1987	Alcohols, n.o.s.	3	II
IMDG	UN1987	Alcohols, n.o.s.	3	II
ICAO/IATA	UN1987	Alcohols, n.o.s.	3	II

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SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists

Ingredient	CAS #	TSCA Inventory	CERCLA Reportable Quantity (RQ) (40 CFR 117.302)	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Ethanol	64-17-5	Yes	N/Ap	N/Av	No	N/Ap
Hydrogen Peroxide	7722-84-1	Yes	N/Ap	N/Av	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard, Acute Health Hazard

OSHA Hazards : Flammable liquid, moderate eye irritant, moderate respiratory irritant

WHMIS Classification : B2: Flammable liquid
D2B: Eye irritation – toxic – other effects

US State Right to Know Laws:

The following chemicals are specifically listed by individual states:

Ingredient	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Ethanol	64-17-5	No	N/Ap	No	Yes	No	Yes	Yes	No
Hydrogen Peroxide	7722-84-1	No	N/Ap	No	No	No	No	No	No

Canadian Information:

All ingredients listed appear on the Domestic Substances List (DSL)

WHMIS Classification : B2: Flammable liquid
D2B: Eye irritation – toxic – other effects

Clean Air Act:

- Section 12 (40 CFR 61) – This product does not contain any hazardous air pollutants (HAP)
- Section 112(r) Accidental Release Prevention (40 CFR 68.130, Subpart F) – This product does not contain any listed chemicals
- Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489) – This product contains the following listed chemical
Ethanol 64-17-5 80-95%

Clean Water Act:

- Section 311, Table 116.4A – This product does not contain any hazardous substances
- Section 311, Table 117.3 – This product does not contain any hazardous chemicals
- Section 307 – This product does not contain any listed toxic pollutants

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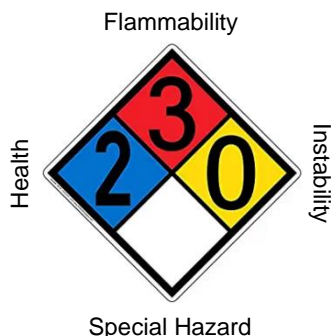
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SECTION 16. OTHER INFORMATION

Further Information:

NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = Not Significant 3 = High
1 = Slight 4 = Extreme
2 = Moderate * = Chronic

Legend:

ACGIH – American Conference of Governmental Industrial Hygienists
 CAS – Chemical Abstract Services
 CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act of 1980
 CFR: Code of Federal Regulations CNS: Central Nervous System DOT: Department of Transportation
 EPA: Environmental Protection Agency
 EINECS: European Inventory of Existing Commercial chemical Substances IARC: International Agency for Research on Cancer
 IBC: Intermediate Bulk Container
 IMDG: International Maritime Dangerous Goods
 Inh: Inhalation
 LC: Lethal Concentration
 LD: Lethal Dose
 N/Ap: Not Applicable
 N/Av: Not Available
 NIOSH: National Institute of Occupational Safety and Health
 NTP: National Toxicology Program
 OSHA: Occupational Safety and Health Administration
 PEL: Permissible exposure limit
 RCRA: Resource Conservation and Recovery Act
 RTECS: Registry of Toxic Effects of Chemical Substances
 SARA: Superfund Amendments and Reauthorization Act
 STEL: Short Term Exposure Limit
 TDG: Canadian Transportation of Dangerous Goods Act & Regulations
 TLV: Threshold Limit Values
 TWA: Time Weighted Average
 WHMIS: Workplace Hazardous Materials Identification System

References:

1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2018.
2. International Agency for Research on Cancer Monographs, searched 2018.
3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2018 (Chempendium, HSDB and RTECS).

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4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - March 2015 version.
6. California Proposition 65 List - November 23, 2018 version.
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2018.

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Other special considerations for handling : Provide adequate information, instruction and training for operators.

<p><u>Prepared for:</u> Mironova Labs, Inc 21 Just Road Fairfield, NJ 07004 Telephone: (973) 244-0393</p>	 <p>MIRONOVA LABS 21 Just Road Fairfield NJ 07004 USA www.mironova.com</p>
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