

1. Identification Of The Substance / Mixture And Of The Company / Undertaking**1.1. Product Identifier**

Product Identity **NETWORK ISOPROPYL ALCOHOL, 99%**
Isopropyl Alcohol, 99%
Alternate Names Product Number: 804915, 804206, 23000

1.2. Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against

Intended Use See Technical Data Sheet
Application Method See Technical Data Sheet

1.3. Details Of The Supplier Of The Safety Data Sheet

Distributor **#1 NETWORK, INC.** 307 Professional Park Ave. Effingham, IL 62401
CHEMTREC (USA) 800-424-9300
Customer Service 217-536-5737

2. Hazard Identification Of The Product**2.1. Classification Of The Substance Or Mixture**

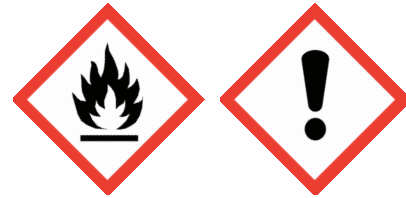
Flam. Liq. 2; H225 Highly Flammable liquid and vapor
Eye Irrit. 2; H319 Causes serious eye irritation
STOT SE 3; H336 May cause drowsiness or dizziness

2.2. Label Elements

Using the Toxicity Data listed in Sections 11 and 12, the product is listed as follows:

Signal Word: **DANGER!**

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

**[Prevention]**

P210 Keep away from heat, sparks, open flames, and hot surfaces - No smoking
P241 Use explosion-proof electrical, ventilating, light, equipment
P261 Avoid breathing dust, fume, gas, mist, vapors, spray
P264 Wash thoroughly after handling
P271 Use only outdoors or in a well-ventilated area
P280 Wear protective gloves, eye protection, and face protection

[Response]

P303 + P361 + P353 IF ON SKIN (or hair): Remove and take off immediately all contaminated clothing. Rinse skin with water, shower.
P304 + P312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse continuously 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
P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing
P370 + P378 In case of fire: Use extinguishing media listed in Section 5 of SDS for extinction

[Storage]

P403 + P233 Store in a well ventilated place. Keep container tightly closed.
P405 Store locked up.

[Disposal]

P501 Dispose of contents and container in accordance with local and national regulations

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3. Composition / Information On Ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient / Chemical Designations	Weight%	GHS Classification		Notes
Isopropyl Alcohol (CAS No: 67-63-0)	99 - 100	Flam. Liq. 2:	H225	[1][2]
		Eye Irrit. 2:	H319	
		STOT SE 3:	H336	

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-Substance or vPvB-Substance

4. First Aid Measures

4.1. Description Of First Aid Measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Immediately flush the eyes with large amounts of water for at least 15 minutes, alternately lifting the upper and lower eyelids. After 5 minutes, if appropriate, remove contact lenses and continue flushing the eyes for an additional 15 minutes. Call a physician at once.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed, call a physician or poison control center immediately. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

4.2. Most Important Symptoms And Effects, Both Acute And Delayed

Overview	Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See Section 2 for further details.
Inhalation	May cause drowsiness or dizziness
Eyes	Causes serious eye irritation

5. Fire-Fighting Measures

5.1. Extinguishing Media

Apply alcohol-type or all-purpose-type foam by manufacturer's recommended technique for large fires. Use carbon dioxide or dry chemical media for small fires.

5.2. Special Hazards Arising From The Substance Or Mixture

Hazardous decomposition: Oxides of carbon. Keep away from heat, sparks, open flames, hot surfaces - No smoking. Use explosion-proof electrical, ventilating, light, equipment. Avoid breathing dust, fume, gas, mist, vapors, spray.

5.3. Advice For Firefighters

FLAMMABLE! Keep container tightly closed. Isolate from oxidizers, heat, and open flames. Vapors form from this product and may travel to be ignited by pilot lights, other flames, sparks, static, and other ignition sources distant from product handling. Vapors may pool and flash back explosively. Flames may be invisible.

Water may be ineffective. Water fog and spray may be used to keep fire-exposed containers and adjacent structures cool. Use water spray to disperse vapors; re-ignition is possible. NEVER use water jet directly on the fire because it may spread the fire to a larger area. Do not enter confined fire-space without full bunker gear. (Helmet with face shield, bunker coats, gloves and rubber boots). Use NIOSH approved positive-pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight the fire from a maximum distance. Cover pooling liquid with foam. Burning liquid will float on water. Notify appropriate authorities if liquid(s) enter sewer/waterways.

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6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment, And Emergency Procedures

Remove sources of ignition, do not turn lights or unprotected electrical equipment on or off. In case of a major spill or spillage in a confined space evacuate the area and check that solvent vapor levels are below the Lower Explosive Limit before re-entering.

6.2. Environmental Precautions

Do not allow spills to enter drains or watercourses. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods And Material For Containment And Cleaning Up

Review fire and explosion hazards and safety precautions before proceeding with cleanup. Release can cause an immediate fire or explosion hazard. Use appropriate personal protective equipment. Eliminate all ignition sources. Avoid sparks, flames, heat, and smoking. For large spills, water mist or spray may be used to reduce or disperse vapors and to dilute spill to nonflammable mixture. All equipment use when handling this material must be grounded. Avoid contact with skin and eyes. Stop leak if possible without risk. Ventilate. Stop the spillage. Dike the spill. Prevent liquid from entering sewers, waterways or low areas. Absorb small spillage in inert material. Soak up with sawdust, sand, or other absorbent material. Use clean, non-sparking tools to collect absorbed material. Remove non-usable solid material and/or contaminated soil for disposal in an approved and permitted landfill. Large spills should be collected for disposal.

7. Handling And Storage

7.1. Precautions For Safe Handling

FLAMMABLE! Avoid contact with eyes. Use only with adequate ventilation. May cause dizziness and drowsiness. A spill or leak can cause an immediate fire/explosion hazard. Keep away from heat, sparks, and open flame. Static electricity and formation of sparks must be prevented. Vapor forms from this product and may travel or be moved by air currents and ignited by ignition sources near or distant from the product handling point and may flashback explosively. Keep in cool, dry, ventilated Class II liquid storage and closed containers. Store in accordance with the National Fire Protection Association's publication NFPA 30, Flammable and Combustible Liquids Code. 29 CFR 1910.106 applies to the handling, storage, and use of flammable and combustible liquids. See Section 2 for further details. - [Prevention].

7.2. Conditions For Safe Storage, Including Any Incompatibilities

Handle containers carefully to prevent damage and spillage. Incompatible materials: No data available. Protect from light, including direct sun rays. Ground container and transfer equipment to eliminate static electric sparks. Store isolated from oxidizing materials. Continue all label precautions. Storage: small quantities of peroxides may form on prolonged storage. Exposure to light and/or air significantly increases the rate of peroxide formation. If evaporated to a residue, the mixture of peroxides and isopropanol may explode when exposed to heat or shock. After opening, purge container with nitrogen before reclosing. Periodically test for peroxide formation on long-term storage. If peroxide formation is suspected, do not open or move container. Do not allow to evaporate to near dryness. Distill with caution. Addition of water or appropriate reducing materials will lessen peroxide formation. **Other Precautions:** Empty containers retain product residue and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition. Rinse well. This material should be stored in separate safety cabinet or room. Any use of this product in elevated-temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions. See Section 2 for further details. - [Storage].

7.3. Specific End Use(s)

No data available.

8. Exposure Controls And Personal Protection

8.1. Control Parameters

CAS No.	Ingredient	EXPOSURE	
		Source	Value
67-63-0	Isopropyl Alcohol	OSHA	TWA: 400 ppm (980 mg/m ³) STEL: 500 ppm
		ACGIH	TWA: 200 ppm STEL: 400 ppm, Revised 2003
		NIOSH	TWA: 400 ppm (980 mg/m ³) ST: 500 ppm (1225 mg/m ³)
		Supplier	No Established Limit
CARCINOGEN DATA			
CAS No.	Ingredient	Source	Value
67-63-0	Isopropyl Alcohol	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;

8.2. Description Of First Aid Measures

Respiratory	Provide adequate general and local exhaust ventilation. In high vapor concentrations, use an air-purifying respirator with appropriate, government approved (where applicable), air purifying filter, or canister.
Eyes	Wear safety eyewear, e.g. safety spectacles, goggles or visors to protect against the splash of liquids.
Skin	Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. All parts of the body should be washed after contact.
Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work	Use good personal hygiene practices. Wash hands after. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. See Section 2 for further details [Prevention]

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9. Physical And Chemical Properties

9.1.			
Appearance	Clear liquid	Melting Point / Freezing Point	Not Measured
Odor	Alcohol	Initial Boiling Point / Boiling Range	180°F
Odor Threshold	Not Measured	Evaporation Rate	7.7 (Ethyl Ether)
Flashpoint	53°F	Upper / Lower Flammability or	Lower: 2.0%
pH	NA	Explosive Limits	Upper: 12.0%
Flammability (Solid, Gas)	NA	Partition Coefficient n-octanol/water (Log Kow)	Not Measured
Vapor Pressure (PA)	33 mm Hg @ 20°C	Solubility In Water	Complete
Vapor Density	2.07 (Air = 1)	Auto-Ignition Temperature	750°F
Specific Gravity	0.786	Decomposition Temperature	Not Measured
Density	6.57 lbs per gallon	Viscosity (cSt)	Not Measured
% Volatile	100	Photochemically Reactive	No
V.O.C.	786 gm/L, 100%, 6.57 lb/gal	Maximum Grams of V.O.C. per Liter	786

9.2. Other Information

No other relevant information.

10. Stability And Reactivity

- 10.1. Reactivity:** Hazardous Polymerization will not occur.
- 10.2. Chemical Stability:** Stable under normal circumstances.
- 10.3. Possibility Of Hazardous Reactions:** No data available.
- 10.4. Conditions To Avoid:** No data available.
- 10.5. Incompatible Materials:** No data available.
- 10.6. Hazardous Decomposition Products:** Oxides of carbon

11. Toxicological Information

Acute Toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Ingredient	Oral LD50 (mg/kg)	Skin LD50 (mg/kg)	Inhalation Vapor LD50 (mg/L/4hr)	Inhalation Dust/Mist LD50 (mg/L/4hr)	Inhalation Gas LD50 (ppm)
Isopropyl Alcohol 67-63-0	4,710.00 Rat Category: 5	12,800.00 Rat Category: NA	72.60 Rat Category: NA	No Data Available	No Data Available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute Toxicity (oral)	---	Not Applicable
Acute Toxicity (dermal)	---	Not Applicable
Acute Toxicity (inhalation)	---	Not Applicable
Skin Corrosion / Irritation	---	Not Applicable
Serious Eye Damage / Irritation	2	Causes serious eye irritation
Respiratory Sensitization	---	Not Applicable
Skin Sensitization	---	Not Applicable
Germ Cell Mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive Toxicity	---	Not Applicable
STOT - Single Exposure	3	May cause drowsiness or dizziness
STOT - Repeated Exposure	---	Not Applicable
Aspiration Hazard	---	Not Applicable

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12. Ecological Information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

AQUATIC ECOTOXICITY

Ingredient	96 Hr LC50 Fish (mg/L)	48 Hr EC50 Crustacea (mg/L)	ERC50 Algae (mg/L)
Isopropyl Alcohol 67-63-0	1,400.00, Lepomis Macrochirus	100.00, Daphnia Magna	100.00 (72 Hr), Scenedesmus Subspicatus

12.2. Persistence And Degradability: There is no data available on the preparation itself.

12.3. Bioaccumulative Potential: Not Measured

12.4. Mobility In Soil: No data available.

12.5. Results Of PBT And vPvB Assessment: This product contains no PBT/vPvB chemicals.

12.6. Other Adverse Effects: No data available.

13. Disposal Considerations

13.1 Waste Treatment Methods

Discharge, treatment or disposal may be subject to Federal, State (provincial in Canada) or local laws. If this product becomes a waste, it should be handles as a hazardous waste and sent to a RCRA approved waste facility as Ignitable Waste, EPA I.D. #D001. Methods of disposal include reclamation and fuel blending. Contact a Licensed Hazardous Waste Hauler for more information.

14. Transport Information

NON-BULK DOMESTIC GROUND

This material is regulated for domestic ground shipments by the U.S. Department of Transportation (DOT) when transported in non-bulk (a packaging which has a maximum capacity of 119 gallons or less as a receptacle for a liquid). Reference 49 CFR 173.120 (b) (2) and 173.150 (f) (1).

In summary, for **non-bulk domestic ground shipments:**

DOT Shipping Name:	UN 1219, Isopropanol
Hazard Class:	3
UN No.:	UN 1219
Packing Group:	II
Guide No:	129

BULK DOMESTIC GROUND

This material is not available for domestic ground shipment in bulk (a packaging which has a maximum capacity greater than 119 gallons as a receptacle for a liquid).

The domestic provisions provided for in non-bulk and bulk ground shipments are not valid for transportation by aircraft or vessel and they are not valid for international shipments. Please follow the appropriate DOT regulations in 49 CFR and the information referenced where appropriate in the IATA Dangerous Goods Transportation Regulation, the International Maritime Organization (IMO), the International Civil Aviation Organization (ICAO and our NFTA partner hazardous material regulation requirements).

OCEAN TRANSPORTATION

In summary, for **ocean shipments:**

Proper Shipping Name:	UN 1219, Isopropanol
UN No.:	UN 1219
Packing Group:	II
IMDG:	3
Environmental Hazards:	IMDG: Marine Pollutant: No

14.6. Special Precautions For User: No further information

14.7. Transport In Bulk According To Annex II Of MARPOL73/78 And The IBC Code: Not applicable

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15. Regulatory Information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.	
TSCA	All listed components either appear or are exempt from the Toxic Substances Control Act (TSCA) Inventory.	
CERCLA	Reportable Quantity (RQ) (40 CFR 117.302): None.	
Carcinogenicity	None of the components in this chemical are present above minimum amounts listed by IARC, NTP, or OSHA as a carcinogen.	
WHMIS Classification	B2, D2B	
US EPA Tier II Hazards	Fire: Yes Sudden Release of Pressure: No Reactive: No Immediate (Acute): Yes Delayed (Chronic): No	
SARA Title III	None	
California PROP 65:	None	
EPCRA 311/312 Chemicals and RQs:	None Listed	EPCRA 302 Extremely Hazardous: None Listed
EPCRA 313 Toxic Chemicals:	None Listed	Proposition 65 - Carcinogens (>0.0%): None Listed
Proposition 65 - Developmental Toxins (>0.0%):	None Listed	Proposition 65 - Female Repro Toxins (>0.0%): None Listed
Proposition 65 - Male Repro Toxins (>0.0%):	None Listed	N.J. RTK Substances (>1%): Isopropyl Alcohol
Penn RTK Substances (>1%) :	Isopropyl Alcohol	

16. Other Information

HMIS

Health:	1
Flammability:	3
Reactivity:	0
Personal:	B

SCAQMD Rule 443.1

Photochemically Reactive:	No
Maximum Grams of VOC per Liter:	786 gm/L
Vapor Pressure:	33 mm Hg @ 20°C

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

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

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

This Safety data Sheet was prepared using information provided by/obtained from Böttcher America. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to the product. Böttcher America expressly disclaim all expressed or implied warranty and assumes no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other processes as to the accuracy of and/or sufficiency of such information. This Safety Data Sheet may not be changed or altered in any way without the expressed knowledge and permission of Böttcher America.