

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

Product Identity **NETWORK AR**
Alcohol Replacement
Alternate Names Product Number: 805816, 805680, 805690, 805911, 805691, 23818

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**

Combustible Liquid;	H227	Combustible liquid
Acute Tox. 5;	H303	May be harmful if swallowed
Acute Tox. 5;	H313	May be harmful in contact with skin
Acute Tox. 4;	H332	Harmful if inhaled
Skin Irrit. 2;	H315	Causes skin irritation
Eye Irrit. 2;	H319	Causes serious eye damage

2.2. Label Elements

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

Signal Word: **WARNING!**



H227	Combustible Liquid
H303	May be harmful if swallowed
H313	May be harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled

[Prevention]

P210 Keep away from heat, sparks, open flames, and hot surfaces - No smoking
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]

P302 + P352 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician
P304 + P312 IF INHALED: Immediately call a POISON CENTER or doctor / physician
P305 + P351 + P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present, - continue rinsing.
P321 Specific treatment (see information on this label)
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
P362 Take off contaminated clothing and wash before reuse

[Storage]

P403 + P235 Store in a well ventilated place. Keep cool.

[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
Ethylene Glycol Monobutyl Ether (CAS No: 111-76-2)	40 - 60	Acute Tox. 4; H332, H312, H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315	[1] [2]
Propylene Glycol (CAS No: 57-55-6)	30 - 40	Not Classified	[1]

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-Substance or vPvB-Substance

* The full texts of the phrases are shown in Section 16

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. If breathing is difficult, give oxygen. Get medical attention immediately.

Eyes: Immediately flush eyes with running water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue flushing for at least 15 minutes. Get immediate medical attention, preferably from an ophthalmologist.

Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Wash skin with plenty of water. Wash contaminated clothing before reuse. Get medical attention if irritation or allergic reaction develops.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention immediately. If conscious, give 1 glass of water. If medical advice is delayed and if an adult has swallowed several ounces of chemical, then give 3-4 ounces of hard liquor such as 80 proof.

4.2. Most Important Symptoms And Effects, Both Acute And Delayed (Overview)

Emergency Overview: Warning! This product is combustible.

POTENTIAL HEALTH EFFECTS

Eye Contact: May cause severe irritation. May cause moderate corneal damage. Eye contact may provoke the following symptoms: Stinging or burning sensation, swelling, redness and watering.

Inhalation: High concentrations of vapor cause irritation to the nose, throat and upper respiratory tract. Symptoms may include headache.

Ingestion: Moderately toxic. Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Ingestion of significant quantities may result in red blood cell hemolysis, with secondary effects to kidney and liver.

Skin Contact: May cause mild skin irritation.

Effects Of Long-Term (Chronic) Exposure: Prolonged or repeated skin contact may cause drying and irritation. Repeated or prolonged exposure may result in kidney effects.

Conditions Aggravated By Overexposure: Pre-existing skin, eye and respiratory disorders.

Aggravated Medical Conditions: Dermatitis can be exacerbated by this product.

Supplemental Health Information: None of the components in this product is listed by IARC, NTP, or OSHA as a carcinogen. See Section 2 for further details.

Inhalation: Harmful if inhaled

Eyes: Causes serious eye irritation

Skin: May be harmful in contact with skin. Causes skin irritation.

Ingestion: May be harmful if swallowed.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Apply alcohol-type or all-purpose-type foam by manufacturer's 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 and sulfur, formaldehyde gas and thiols. Keep away from heat, sparks, open flames, hot surfaces - No smoking. Avoid breathing dust, fume, gas, mist, vapors, spray.

5.3. Advice For Firefighters

Special Fire-Fighting Procedures: Fight fires from a safe distance. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Do not direct a solid stream of water into hot, burning pools; this may cause frothing and increase fire intensity. Burning liquids may be extinguished by dilution with water.

Explosion data: Sensitivity to mechanical impact / static discharge: Combustible liquid. The components in this material may produce a floating fire hazard in extreme fire conditions. Container may rupture.

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water ways.

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6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment, And Emergency Procedures

Put on appropriate personal protective equipment (see Section 8).

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

Personal precautions: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Individuals involved in the cleanup must wear appropriate personal protective equipment. Environmental precautions: Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading. Spill response/cleanup: Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required. Recommend incinerate in a furnace where permitted. At very low concentrations in water, this product is biodegradable in a biological wastewater treatment plant. Prohibited materials: None known. Special spill response procedures: In case of a transportation accident, in the United States contact CHEMTREC At 1-800-424-9300 or International at 1-703-527-3887. 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: 1-800-424-8002). US CERCLA Reportable quantity (RQ): None

7. Handling And Storage

7.1. Precautions For Safe Handling

Use only in well-ventilated areas. Wear suitable protective equipment during handling. Avoid breathing vapors. Avoid contact with skin, eyes and clothing.

Wash thoroughly after handling. Keep away from heat, sparks, and open flames. Avoid contact with incompatible materials. Keep containers tightly closed when not in use. Combustible. Process Hazard: Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperatures and pressure, or sudden ingress of air into hot equipment under vacuum, may result in ignitions without the presence of obvious ignition sources. Do not reuse containers. Incompatible materials: Strong oxidizers. Special packaging materials: Always keep in containers made of the same materials as the supply container. Dispose of in a licensed facility. See section 2 for further details [Prevention].

7.2. Conditions For Safe Storage, Including Any Incompatibilities

Handle containers carefully to prevent damage and spillage. Store in a cool dry area, away from heat, sparks and open flame. Keep containers sealed when not in use. Store out of direct sunlight. Incompatible materials: Strong oxidizers and alkali metals. Store in a cool, dry, well-ventilated area. Keep containers closed. Do not store with incompatible materials. Do not store or consume food, drink, or tobacco where they may become contaminated with this material. All labeled precautions must be observed when handling, storing and transporting empty containers due to product residues. Triple rinse before disposal. See section 2 for further details [Storage].

7.3. Specific End Use(s)

No data available.

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8. Exposure Controls And Personal Protection

8.1. Control Parameters

		EXPOSURE	
CAS No.	Ingredient	Source	Value
57-55-6	Propylene Glycol	OSHA ACGIH NIOSH Supplier	No Established Limit TWA: (Aerosol): 10 mg/m ³ No Established Limit TWA: 10 mg/m ³ (listed as AIHA WEEL)
111-76-2	Ethylene Glycol Monobutyl Ether	OSHA ACGIH NIOSH Supplier	TWA: 50 ppm (240 mg/m ³) [skin] TWA: 20 ppm - Revised 2003 TWA: 5 ppm (24 mg/m ³) [skin] No Established Limit
		CARCINOGEN DATA	
CAS No.	Ingredient	Source	Value
57-55-6	Propylene Glycol	OSHA NTP IARC	Select Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
111-76-2	Ethylene Glycol Monobutyl Ether	OSHA NTP IARC	Select Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;

8.2. Description Of First Aid Measures

Respiratory	Respiratory protection is required if the airborne concentration exceeds the TLV. When concentrations exceed the exposure limits specified, use of NIOSH-approved organic vapor cartridge respirator is recommended. Where the protection factor may be exceeded, use of a full face-piece, supplied air or Self-Contained Breathing Apparatus (SCBA) may be necessary. Advice should be sought from respiratory protection specialists.
Eyes	Chemical goggles. If exposure causes eye discomfort, use a full-face respirator.
Skin	Wear appropriate equipment to prevent probability of exposure and personal contact. Chemical resistant gloves.
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 Practices	Safety showers and eye wash stations should be provided in areas where this product is used. 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].

9. Physical And Chemical Properties

9.1.

Appearance	Clear liquid	Melting Point / Freezing Point	Not Defined
Odor	Characteristic	Initial Boiling Point / Boiling Range	340°F
Odor Threshold	Not Defined	Evaporation Rate	Not Defined
Flashpoint	155°F	Upper / Lower Flammability or	Lower: 1.1% (2-Butoxy Ethanol)
pH	Not Defined	Explosive Limits	Upper: 10.6%
Flammability (Solid, Gas)	Not Defined	Partition Coefficient n-octanol/water (Log Kow)	Not Defined
Vapor Pressure (PA)	0.20 mm Hg @ 20°C (H ₂ O Exempt)	Solubility In Water	Miscible
Vapor Density	Heavier Than Air (Air = 1)	Auto-Ignition Temperature	Not Defined
Specific Gravity	0.96 @ 25°C	Decomposition Temperature	Not Defined
Density	8.00 lbs per gallon	Viscosity (cSt)	Not Defined
V.O.C. (Exempt LVP-VOC)	475 gm/L, 49%, 3.96 lb/gal	Photochemically Reactive	No
V.O.C.	568 gm/L, 59%, 4.73 lb/gal	Maximum Grams of V.O.C. per Liter	568

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:** Temperatures above 160°C.
- 10.5. Incompatible Materials:** Strong oxidizers and alkali metals.
- 10.6. Hazardous Decomposition Products:** Oxides of carbon and sulfur, formaldehyde gas and thiols.

11. Toxicological Information

Acute Toxicity

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)
Ethylene Glycol Monobutyl Ether 111-76-2	1,414.00 Guinea Pig Category: 4	1,200.00 Guinea Pig Category: 4	173.00 Guinea Pig Category: NA	No Data Available	No Data Available
Propylene Glycol 57-55-6	20,000.00 Rat Category: NA	20,800.00 Rabbit Category: NA	105.00 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)	5	May be harmful if swallowed
Acute Toxicity (dermal)	4	Harmful in contact with skin
Acute Toxicity (inhalation)	4	Harmful if inhaled
Skin Corrosion / Irritation	2	Causes skin irritation
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	---	Not Applicable
STOT - Repeated Exposure	---	Not Applicable
Aspiration Hazard	---	Not Applicable

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)
Ethylene Glycol Monobutyl Ether 111-76-2	220.00, Fish (Piscis)	1,000.00, Daphnia	Not Available
Propylene Glycol 57-55-6	40,613.00, Oncorhynchus Mykiss	18,340.00, Ceriodaphnia Dubia	19,000.00 (96 Hr), Pseudo-kirchneriella Subcapitata

- 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

Observe all federal, state and local regulations when disposing of this substance.

14. Transport Information

NON-BULK DOMESTIC GROUND

This material is not 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 Class: Not Regulated
Hazard Class: Not Applicable
UN No.: Not Applicable

BULK DOMESTIC GROUND

If this material is offered for domestic ground shipment in bulk (a packaging which has a maximum capacity greater than 119 gallons as a receptacle for a liquid), then the material is regulated. Reference 49 CFR 173.120 (b) (2) and 173.150 (f) (2).

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

DOT Shipping Name: NA 1993, Combustible Liquid, N.O.S. (Contains Ethylene Glycol Monobutyl Ether)
Hazard Class: Combustible
UN No.: NA 1993
Packing Group: III
Guide No.: 128

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: Not Regulated
UN No.: Not Regulated
Packing Group: Not Regulated
IMDG: Not Applicable
Environmental Hazards: IMDG: Marine Pollutant: No

14.6. Special Precautions For User: No further information

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: B3, D2B

US EPA TIER II HAZARDS: Fire: Yes Sudden Release of Pressure: No Reactive: No Immediate (Acute): Yes Delayed (Chronic): No

EPCRA SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCE REPORTING: None listed.

EPCRA SECTION 311/312 - HAZARDOUS CHEMICAL REPORTING & RQ'S: None listed.

EPCRA SECTION 313 - TOXIC CHEMICAL REPORTING: Ethylene Glycol Monobutyl Ether.

CALIFORNIA PROP 65: None listed.

U.S. STATE RIGHT TO KNOW LISTS

New Jersey (>1%): Ethylene Glycol Monobutyl Ether & Propylene Glycol

Pennsylvania (>1%): Ethylene Glycol Monobutyl Ether & Propylene Glycol

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16. Other Information

HMIS		SCAQMD Rule 443.1	
Health:	2	Photochemically Reactive:	No
Flammability:	2	Maximum Grams of VOC per Liter:	568 gm/L
Reactivity:	0	Vapor Pressure:	0.20 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:

H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled

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

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