

SAFETY DATA SHEET

1. Identification

Product identifier Unifirst First Aid Corp.

Ammonia Inhalants

Other means of identification Not available.

Recommended use Not available.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Manufacturer: Safetec of America, Inc.

887 Kensington Avenue

Buffalo, NY 14215

Company Telephone: 1-716-895-1822
E-mail Address: www.safetec.com
Emergency Telephone: 1-800-255-3924
Supplier Refer to Manufacturer

2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 3Health hazardsSkin corrosion/irritationCategory 1Serious eye damage/eye irritationCategory 1

Environmental hazards This mixture does not meet the classification criteria according to OSHA HazCom 2012.

OSHA defined hazards This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Label elements



Signal word Danger

Hazard statement Flammable liquid and vapor. Causes severe skin burns and eye damage.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and

receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

Response If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If inhaled: Remove person to fresh air and keep comfortable for breathing. If swallowed: Rinse mouth. Do NOT induce vomiting. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. In case of fire: Use appropriate media for extinction. Wash contaminated clothing

before reuse.

Storage Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Ethanol Alcohol Ethyl Alcohol		64-17-5	< 30
Ammonia	AQUEOUS AMMONIA	1336-21-6	< 15

4. First-aid measures

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Inhalation

Get medical attention if symptoms persist.

Causes severe skin burns and eye damage.

Skin contact Wash off immediately with soap and plenty of water. Get medical attention immediately.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and Eye contact

easy to do. Continue rinsing. Get medical attention immediately.

Ingestion If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting

without advice from poison control center. Get medical attention.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters Fire fighting

equipment/instructions General fire hazards

Hazardous combustion products

Water. Water Spray or Fog. Dry chemicals. Foam. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. Thermal decomposition or combustion may liberate toxic gases or fumes.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Flammable liquid and vapor.

Ammonia. Carbon oxides. Nitrogen oxides (NOx). Other unidentified organic compounds.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Absorb spill with vermiculite or other inert material, then place in a sealed container for chemical waste.

Large Spills: Flush with plenty of water. Prevent entry into waterways, sewer, basements or confined areas. Dike for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Eliminate all sources of ignition. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Do not breathe mist or vapor. Do not get in eyes, on skin, on clothing. Use only with adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities Do not store around flammable or combustible materials. Store in tightly closed original container in a well-ventilated place. Keep cool. Store locked up.

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8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants	(29 CFR 1910.1000)
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Components	Туре	Value	
Ammonia (CAS 1336-21-6)	PEL	35 mg/m3	
		50 ppm	
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	
US. ACGIH Threshold Limit Values	5		
Components	Туре	Value	
Ammonia (CAS 1336-21-6)	STEL	35 ppm	
	TWA	25 ppm	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
US. NIOSH: Pocket Guide to Chen	nical Hazards		
Components	Туре	Value	
Ammonia (CAS 1336-21-6)	STEL	27 mg/m3	
,		35 ppm	
	TWA	18 mg/m3	
		25 ppm	
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	

Biological limit values Appropriate engineering No biological exposure limits noted for the ingredient(s). Explosion-proof general and local exhaust ventilation.

controls

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Chemical resistant gloves recommended.

Other Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of

exposure. Contact health or safety professional or manufacturer for specific information.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Contact health and safety professional or

manufacturer for specific information.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene Always observe good personal hygiene measures, such as washing after handling the material considerations

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

9. Physical and chemical properties

Appearance Towelette. Physical state Liquid. **Form** Towelette. Off-white. Color Ammonia-like Odor Not available. **Odor threshold**

> 12 pН

Not available. Melting point/freezing point Initial boiling point and boiling Not available.

range

78.1 °F (25.6 °C) Closed Cup Flash point

Not available. **Evaporation rate** Not applicable. Flammability (solid, gas)

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Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

115 mm Hg at 68°F (20°C) for a 10% NH3OH solution Vapor pressure

0.6 for Ammonia Vapor density Not available. Relative density

Solubility(ies)

Soluble. Solubility (water) **Partition coefficient** Not available.

(n-octanol/water)

Not available. **Auto-ignition** temperature **Decomposition** temperature Not available. **Viscosity** Not available.

Other information

0.78 - 1Specific gravity

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Stable at normal conditions.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Keep away from heat, sparks and open flame. High temperatures.

Incompatible materials Strong oxidizing agents. Acids.

Hazardous decomposition

products

Ammonia. Carbon oxides. Nitrogen oxides (NOx). Other unidentified organic compounds.

11. Toxicological information

Information on likely routes of exposure

Inhalation Inhalation of high concentrations of vapors, may cause respiratory irritation.

Skin contact Causes severe skin burns. Eve contact Causes serious eye damage.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Causes severe skin burns and eye damage.

Most important

symptoms/effects, acute and

delayed

Information on toxicological effects

Acute toxicity Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Components	Species	Test Results
Ammonia (CAS 1336-21-6)		
Acute		
Dermal		
LD50	Rabbit	No Data in Literature
Inhalation		
LC50	Mouse	2115 ppm, 4 hours (ammonia gas)
	Rat	3670 ppm, 4 hours (ammonia gas)
Oral		
LD50	Rat	350 mg/kg
Ethanol (CAS 64-17-5)		
Acute		
Dermal		
LD50	Rabbit	> 15800 mg/kg

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Test Results Components **Species** Inhalation LC50 Rat > 32380 ppm, 4 hours (vapor) > 61 mg/l, 4 hours (vapor) Oral

Skin corrosion/irritation Causes severe skin burns. Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

LD50

This product is not expected to cause respiratory sensitization. Respiratory sensitization This product is not expected to cause skin sensitization. Skin sensitizer

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Rat

Not listed.

Reproductive toxicity This product is not expected to cause reproductive effects.

Specific target organ toxicity -

single exposure

Not classified as a specific target organ toxicity -single exposure.

Specific target organ toxicity -

repeated exposure

Not classified as a specific target organ toxicity -repeated exposure.

Not expected to be an aspiration hazard. **Aspiration toxicity**

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous.

Components **Species Test Results** Ammonia (CAS 1336-21-6)

Aquatic Acute

EC50 Crustacea Water flea (Daphnia magna) 0.66 mg/l, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) 8.2 mg/l, 96 hours

Ethanol (CAS 64-17-5)

Aquatic Acute

Algae EC50

Green algae (Selenastrum 1000 mg/l, 96 hours

capricornutum)

Water flea (Daphnia magna) Crustacea EC50

5012 mg/l, 48 hours

7060 mg/kg

Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

Persistence and degradability Not available. Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

Ethanol -0.31

Not available. Mobility in soil

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. **Disposal instructions**

Local disposal regulations Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

D001: Waste Flammable material with a flash point <140 F

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN number UN1170

UN proper shipping name Ethanol solution (Ethanol RQ = 148 LBS)

Transport hazard class(es)

Class 3 Subsidiary risk Label(s) 3 Packing group Ш **Environmental hazards**

Marine pollutant Yes

Special precautions for user Not available. **Special provisions** 24, B1, IB3, T2, TP1

Packaging exceptions 4b, 150 203 Packaging non bulk Packaging bulk 242

IATA

UN number UN1170

UN proper shipping name Ethanol Solution (Ethanol)

Transport hazard class(es)

Class 3 Subsidiary risk Ш Packing group **Environmental hazards** No. **ERG Code** 3L

Special precautions for user Not available.

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only Allowed.

IMDG

UN number UN1170

UN proper shipping name ETHANOL SOLUTION (Ethanol)

Transport hazard class(es) **Class**

3 Subsidiary risk Packing group Ш

Environmental hazards

Marine pollutant Yes F-E, S-D **EmS** Special precautions for user Not available. Transport in bulk according to Not available.

Annex II of MARPOL 73/78 and

the IBC Code

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IATA; IMDG



Marine pollutant



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Ammonia (CAS 1336-21-6) Listed. Ethanol (CAS 64-17-5) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories**

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

SARA 313 (TRI reporting)

chemical

Chemical name CAS number % by wt. Ammonia 1336-21-6 < 15

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed

US. Massachusetts RTK - Substance List

Ammonia (CAS 1336-21-6) Ethanol (CAS 64-17-5)

US. New Jersey Worker and Community Right-to-Know Act

Ammonia (CAS 1336-21-6) Ethanol (CAS 64-17-5)

US. Pennsylvania Worker and Community Right-to-Know Law

Ammonia (CAS 1336-21-6) Ethanol (CAS 64-17-5)

US. Rhode Island RTK

Ammonia (CAS 1336-21-6)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Ethanol (CAS 64-17-5) Listed: April 29, 2011 Listed: July 1, 1988

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Inventory name

Ethanol (CAS 64-17-5) Listed: October 1, 1987

International Inventories

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Other information, including date of preparation or last revision

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On inventory (yes/no)*

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Disclaimer

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ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices (2014) Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2014 (Chempendium, RTECs, HSDB, INCHEM)

European Chemicals Bureau, Existing Chemicals Work Area, EINECS Information System, 2014. Material Safety Data Sheet from manufacturer.

OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2014.

Bibliography

Material name: Safetec® Ammonia Inhalants

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