

# **SAFETY DATA SHEET**

DATE: MAY 27, 2015

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** First Aid Kits

**Trade Names** 

Model Part No. Model Part No.

RE1013-() S3107-() FAK FAK

Company Eastern Aero Marine

> 5502 NW 37<sup>th</sup> Avenue Miami, Florida 33142

**Telephone** (800) 255-3924 Fax (305) 637-8632

**Emergency Phone Number** (813) 248-0585

### 2. HAZARDS IDENTIFICATION

**Jodine Tincture USP** Ammonia Inhalant

Symbol(s) or pictogram(s) Refer to supplier's Safety Data Sheets for specific information on

components.

Hazard statement(s) Refer to supplier's Safety Data Sheets for specific information on

components.

Precautionary statement(s) Refer to supplier's Safety Data Sheets for specific information on

components.

Hazards not otherwise classified Refer to supplier's Safety Data Sheets for specific information on

components.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

N/A. Refer to supplier's Safety Data Sheets for specific information on components.

### **FIRST AID MEASURES**

Inhalation Provide patient with fresh air and seek medical advice. **Skin Contact** Do not use solvents. Wash with soap and water. **Eye Contact** Irrigate thoroughly with water and seek medical advice.

Ingestion Get medical aid immediately.

### 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media Large volumes of water. Sand.

**Specific Hazards From Combustion** Refer to supplier's Safety Data Sheets for specific information on

components.

**Personal Protection** Use air-ventilated full mask and full protective clothing.

### **6. ACCIDENTAL RELEASE MEASURES**

Hazardous materials are contained in sealed units within packed kits. Spills should pose no threat if sealed units are not breached. Refer to supplier's Safety Data Sheets for specific information on components.



### 7. HANDLING AND STORAGE

These units should be stored in a cool dry area, away from danger of sparks, heat or flames. Refer to supplier's Safety Data Sheets for specific information on components.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Refer to supplier's Safety Data Sheets for specific information on components.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Refer to supplier's Safety Data Sheets for specific information on components.

### 10. STABILITY AND REACTIVITY

Kits are stable if stored in the original package in cool and dry conditions. Do not subject kits to high temperatures or excessively humid conditions. Refer to supplier's Safety Data Sheets for specific information on components.

### 11. TOXICOLOGICAL INFORMATION

N/A. Refer to supplier's Safety Data Sheets for specific information on components.

### 12. ECOLOGICAL INFORMATION

N/A. Refer to supplier's Safety Data Sheets for specific information on components.

### 13. DISPOSAL CONSIDERATIONS

Refer to supplier's Safety Data Sheets for specific disposal information of components. Other solid portions of the kits may be disposed of as domestic waste in accordance with local laws and regulations.

## 14. TRANSPORT INFORMATION

UN Number UN3316
UN Proper Shipping Name First Aid Kit
Transport Hazard Class(es) Class 9

Packing Group PG II – Ground: ORM-D

## **15. REGULATORY INFORMATION**

N/A. Refer to supplier's Safety Data Sheets for specific information on components.

### **16. OTHER INFORMATION**

**Revision Level** Original

Other Supplier's Safety Data Sheets can be found on our website

at www.eamworldwide.com/technical-data/



# SAFETY DATA SHEET

Issuing Date January 5, 2015

Revision Date New

Revision Number 0

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE **COMPANY/UNDERTAKING**

Product identifier

**Product Name** 

Aplicare® Povidone-Iodine Solution (10%, For Individual Use)

Other means of identification

**Product Code(s)** 

L-1001

Recommended use of the chemical and restrictions on use

**Recommended Use** 

Broad spectrum topical antiseptic

Uses advised against

No information available

Details of the supplier of the safety data sheet

**Supplier Name** 

Aplicare Inc.

**Supplier Address** 

550 Research Parkway

Meriden, CT 06450

**Supplier Phone Number** 

Phone: 203-630-0500

**Emergency telephone number** 

**Emergency Phone Numbers** 

For Medical Emergencies call: 1-800-446-1014

For Transportation Emergencies, call Chemtrec: 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

### Classification

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### GHS Label elements, including precautionary statements

### **Emergency Overview**

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Appearance Dark brown

Physical State Viscous liquid

Odor Faint, characteristic

### Precautionary Statements - Prevention

None

### Precautionary Statements - Response

None

### Precautionary Statements - Storage

None

## Precautionary Statements - Disposal

None

### Hazards not otherwise classified (HNOC)

Not applicable

### **Unknown Toxicity**

11% of the mixture consists of ingredient(s) of unknown toxicity

### Other information

Harmful to aquatic life with long lasting effects.

### **Interactions with Other Chemicals**

Incompatible with strong alkalis.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Povidone-iodine	25655-41-8	8 - 12	*

### 4. FIRST AID MEASURES

### First aid measures

**General Advice** Show this safety data sheet to the doctor in attendance.

**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation

persists: Get medical advice/attention.

**Skin Contact** Wash skin with soap and water.

Inhalation Remove to fresh air. If symptoms persist, call a doctor.

Ingestion Rinse mouth immediately and drink plenty of water. Never give anything by mouth

to an unconscious person. Do NOT induce vomiting. Call a physician.

### Most important symptoms and effects, both acute and delayed

Most Important Symptoms and May cause slight eye irritation.

**Effects** 

## Indication of any immediate medical attention and special treatment needed

**Notes to Doctor** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

#### Specific Hazards Arising from the Chemical

Harsh iodine fumes may be emitted if product is heated to temperatures greater than 80°C.

### **Hazardous Combustion Products**

Carbon oxides.

#### Explosion Data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge

No.

## Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** 

Avoid contact with eyes.

**Environmental Precautions** 

**Environmental Precautions** 

See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

**Methods for Containment** 

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Handling

Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety

practice.

### Conditions for safe storage, including any incompatibilities

Storage

Do not store at temperatures above 40°C. Keep tightly closed in a dry and cool place.

Keep in properly labeled containers.

**Incompatible Products** 

Strong alkalis.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control parameters**

### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
lodine 7553-56-2	TWA: 0.01 ppm (Inhalable fraction and vapor) STEL: 0.1ppm (Aerosol and vapor)	TWA-Ceiling: 0.1 ppm	IDLH: 2 ppm TWA-Ceiling: 0.1 ppm

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

### **Appropriate engineering controls**

**Engineering Measures** 

Showers

Eyewash stations Ventilation systems

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** 

No special protection required.

**Skin and Body Protection** 

No special protection required.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** 

Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

**Physical State** Viscous liquid **Appearance** Opaque Color Dark brown

Property **Values** No data available pH Melting / freezing point No data available Boiling point / boiling range No data available **Flash Point** No data available **Evaporation Rate** No data available Flammability (solid, gas) No data available Flammability Limit in Air

Upper flammability limit No data available Lower flammability limit No data available Vapor pressure No data available Vapor density No data available **Specific Gravity** ~1.04 **Water Solubility** Soluble Solubility in other solvents No data available Partition coefficient: n-octanol/waterNo data available

**Autoignition temperature** No data available **Decomposition temperature** No data available Kinematic viscosity No data available **Dynamic viscosity** No data available **Explosive properties** No data available **Oxidizing Properties** No data available

No data available

**Other Information Softening Point** No data available **VOC Content (%)** No data available No data available **Particle Size Particle Size Distribution** 

Odor **Odor Threshold** 

Remarks/ Method

Faint, characteristic No information available

None known None known None known None known None known None known

None known None known None known None known None known None known None known None known None known None known None known None known

## 10. STABILITY AND REACTIVITY

#### Reactivity

Incompatible with strong alkalis.

#### **Chemical stability**

Stable under recommended storage conditions. Harsh iodine fumes may be emitted if product is heated to temperatures greater than 80°C.

### Possibility of Hazardous Reactions

None under normal processing.

#### **Hazardous Polymerization**

Hazardous polymerization does not occur.

#### Conditions to avoid

None known based on information supplied.

# Incompatible materials

Strong alkalis.

### **Hazardous Decomposition Products**

Carbon oxides.

### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

**Inhalation** Specific test data for the substance or mixture is not available.

Eye Contact Specific test data for the substance or mixture is not available.

**Skin Contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

Component Information No information available.

### Information on toxicological effects

**Symptoms** May cause redness and tearing of the eyes.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity Contains no ingredients listed as a carcinogen.

Reproductive Toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

**Chronic Toxicity** 

Carcinogenic potential is unknown.

**Target Organ Effects** 

None known.

**Aspiration Hazard** 

No information available.

### Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document Not applicable

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Harmful to aquatic life with long lasting effects.

#### Persistence and Degradability

No information available.

#### **Bioaccumulation**

No information available.

### Other adverse effects

No information available.

# 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Dispose of in accordance with all applicable federal, state, and local regulations.

### **Contaminated Packaging**

Dispose of in accordance with all applicable federal, state, and local regulations.

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

# 15. REGULATORY INFORMATION

### **Chemical Inventories**

TSCA

Complies.

DSL

All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### **US Federal Regulations**

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals that are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

### CWA (Clean Water Act)

This product does not contain any substances that are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances that are regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### **US State Regulations**

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Disodium phosphate	3100	х	Х	Х	
Sodium hydroxide 1310-73-2	Х	Х	Х	Х	

#### International Regulations

Canada WHMIS Hazard Class Not controlled.

# 16. OTHER INFORMATION

NFPA Health Hazards

Flammability 0

Instability 0

Physical and

**HMIS** 

**Health Hazards** 

Flammability 0

**Physical Hazard** 

Chemical Hazards - Personal Protection

**Prepared By** 

Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501

**Revision Date** 

New

**Revision Note** 

New

Reference

INT0027/D001

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet** 



## Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 06/02/2014 Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixture

Trade name : Ammonia Inhalant Solution

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : OTC drug used to treat or prevent fainting

Use of the substance/mixture : For professional use only

#### 1.3. Details of the supplier of the safety data sheet

James Alexander Corporation 845 Route 94 Blairstown NJ 07825

Tel: (908) 362-9266

Note: The CHEMTREC emergency number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to JAC at (908) 362-9266.

#### 1.4. Emergency telephone number

Emergency number : Chemtrec (800) 424-9300

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Flam. Liq. 2 H225 Skin Corr. 1B H314 Eye Dam. 1 H318 Carc. 1A H350

### 2.2. Label elements

### **GHS-US** labelling

Hazard pictograms (GHS-US)







GHS02 GHS05

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapour

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H350 - May cause cancer

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, lighting, ventilating equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge P260 - Do not breathe dust, fume, gas, mist, spray, vapours

P264 - Wash hands thoroughly after handling

P280 - Wear eye protection, protective clothing, protective gloves

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable

for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

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P308+P313 - IF exposed or concerned: Get medical advice/attention P310 - Immediately call a POISON CENTER or doctor/physician

P321 - Specific treatment (see on this label)

P363 - Wash contaminated clothing before reuse

P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide

(CO2), water spray, sand, earth for extinction

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

P405 - Store locked up

P501 - Dispose of contents/container to comply with applicable local, national and international

regulation.

#### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS-US)

No data available

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

Full text of H-phrases: see section 16

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Ethyl alcohol	(CAS No) 64-17-5	30 - 40	Flam. Liq. 2, H225 Carc. 1A, H350
Ammonia	(CAS No) 7664-41-7	15 - 20	Flam. Gas 2, H221 Compressed gas, H280 Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1B, H314

#### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing stops, give artificial respiration. In case of breathing difficulties administer oxygen. by trained personnel. Seek medical attention immediately.

First-aid measures after skin contact

: Immediately flush skin with plenty of water for at least 15 minutes. Remove/Take off immediately all contaminated clothing. Do not rub the skin and eyes after direct contact with the product. Seek medical attention immediately. Wash contaminated clothing before reuse.

First-aid measures after eye contact

: In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately get medical attention.

First-aid measures after ingestion

: If the person is fully conscious, make him/her drink water. Never give an unconscious person anything to drink. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. If swallowed, rinse mouth with water (only if the person is conscious).

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries

: Causes severe skin burns and eye damage. This material or its emissions may affect the central nervous system and/or aggravate pre-existing disorders.

Symptoms/injuries after inhalation

: May cause cancer by inhalation. Prolonged and repeated inhalation of decomposition products may cause a pulmonary oedema. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination. Irritating to the respiratory system, may cause throat pain and cough. Difficulty in breathing.

Symptoms/injuries after skin contact

: May cause severe burns.

Symptoms/injuries after eye contact

: Causes serious eye damage. Can cause blindness.

Symptoms/injuries after ingestion

: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Ingestion may cause nausea, vomiting and diarrhea.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

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### **SECTION 5: Firefighting measures**

#### **Extinguishing media**

Suitable extinguishing media : Alcohol resistant foam. Dry powder. Carbon dioxide. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

**Explosion hazard** : May form flammable/explosive vapour-air mixture.

Reactivity Thermal decomposition generates: Corrosive vapours. Reacts violently with acids. An

exothermic reaction may occur.

#### Advice for firefighters 5.3.

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any Firefighting instructions

chemical fire. Prevent fire-fighting water from entering environment.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information Containers may swell and Burst during a fire due to internal pressure caused by heat. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours. Alcohols burn with a pale blue flame which may be extremely hard to see under normal lighting conditions. Personnel may be able to feel the heat of the fire without seeing

flames. Extreme caution must be exercised in fighting alcohol fires.

### **SECTION 6: Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

General measures

: Eliminate all ignition sources if safe to do so. Use special care to avoid static electric charges. No naked lights. No smoking. Stop leak if safe to do so. No action shall be taken involving any personal risk or without suitable training. Wear protective clothing. For further information refer to section 8: Exposure-controls/personal protection.

6.1.1. For non-emergency personnel

**Emergency procedures** : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Ventilate area. **Emergency procedures** 

#### 6.2. **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### Methods and material for containment and cleaning up

#### Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

Reference to other sections

spillage. Store away from other materials. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Consult the appropriate authorities about waste disposal. Ensure all national/local regulations are observed.

See Heading 8. Exposure controls and personal protection.

# **SECTION 7: Handling and storage**

#### Precautions for safe handling

Additional hazards when processed

Precautions for safe handling

: Handle empty containers with care because residual vapours are flammable.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Personal protective equipment should be selected based upon the conditions under which this product is handled or used. Use personal protective equipment as required. Provide good ventilation in process area to prevent formation of vapour. Do not breathe gas, fumes, vapour or spray. No naked lights. No smoking. Use only non-sparking tools. Never use pressure to empty container. Ground/bond container and receiving equipment. Take care to allow internal pressure to escape from container before releasing closures. Remove closure carefully; internal pressure may be present. Keep closure up to prevent leakage. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when

leaving work.

Wash hands and other exposed areas with mild soap and water before eating, drinking or Hygiene measures smoking and when leaving work. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

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#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Ensure the ventilation system is regularly maintained and tested. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. A washing facility/water for eye and skin cleaning purposes should be present. Comply with applicable regulations.

Storage conditions

: Keep only in the original container in a cool well ventilated place. Keep in fireproof place. Keep container tightly closed. Protect containers against physical damage. Detached outside storage is preferable. Inside storage should be in an NFPA approved flammable liquids storage room or cabinet. Store in corrosion-proof area at temperatures below 77 degrees F (25oC). Store away from direct sunlight or other heat sources.

Incompatible materials

 Avoid mixing with acids, most common metals, strong oxidizing agents, brass, zinc, chlorine, aluminum, copper, bronze, mercury, dimethyl sulfate and acetyl chloride.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Ammonia (7664-41-7)				
USA ACGIH	ACGIH TWA (ppm)	25 ppm		
USA ACGIH	ACGIH STEL (ppm)	35 ppm		
USA OSHA	OSHA PEL (TWA) (mg/m³)	35 mg/m³		
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm		

Ethyl alcohol (64-17-5)				
USA ACGIH	ACGIH STEL (ppm)	1000 ppm		
USA OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m³		
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm		

#### 8.2. Exposure controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits. Use explosion-proof ventilating equipment.

Personal protective equipment

Avoid all unnecessary exposure. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to OSHA regulations. For certain operations, additional Personal Protection Equipment (PPE) may be required. Protective goggles. Gloves. Protective clothing.







Hand protection

: Wear protective gloves. rubber gloves. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection

: Chemical goggles or face shield.

Skin and body protection

: Wear suitable protective clothing. Chemical resistant safety shoes.

Respiratory protection

Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE). Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals. Care must be taken to assure that any respirator chosen is capable of protecting the user from both ammonia and ethyl alcohol vapors.

Other information

: Do not eat, drink or smoke during use.

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### Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Clear.
Colour : Red.

Odour : Pungent ammonia odour.

Odour threshold : No data available pH : No data available Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available Freezing point : No data available Boiling point : > 35 °C (> 95 °F)

Flash point : < 10 °C (< 50 °F - Pensky Martens Closed Cup)

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available

Density : 0.891 (Specific Gravity @ 25 °C)

Solubility : Soluble in water. Log Pow : No data available : No data available Log Kow Viscosity, kinematic : No data available Viscosity, dynamic No data available Explosive properties No data available Oxidising properties : No data available Explosive limits : No data available

### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Thermal decomposition generates: Corrosive vapours. Reacts violently with acids. An exothermic reaction may occur.

#### 10.2. Chemical stability

Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

### 10.5. Incompatible materials

Avoid mixing with acids, most common metals, strong oxidizing agents, brass, zinc, chlorine, aluminum, copper, bronze, mercury, dimethyl sulfate and acetyl chloride.

#### 10.6. Hazardous decomposition products

Thermal decomposition generates: Fume. Carbon monoxide. Carbon dioxide. May release flammable gases. Corrosive vapours. Ammonia. Nitrogen oxides. release of highly flammable gases/vapours hydrogen.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

(Based on available data, the classification criteria are not met)

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# Safety Data Sheet

sccording to the federal final rule of hazard communicati	ion r	evised on 2012 (HazCom 2012)
Ammonia (7664-41-7)		
LD50 oral rat		350 mg/kg
LC50 inhalation rat (ppm)		2000 ppm/4h
Ethyl alcohol (64-17-5)		
LC50 inhalation rat (mg/l)		124.7 mg/l (Exposure time: 4 h)
Skin corrosion/irritation	:	Causes severe skin burns and eye damage.
Serious eye damage/irritation	:	Causes serious eye damage.
Respiratory or skin sensitisation	:	Not classified
		(Based on available data, the classification criteria are not met)
Germ cell mutagenicity	:	Not classified
		(Based on available data, the classification criteria are not met)
Carcinogenicity	:	May cause cancer.
Ethyl alcohol (64-17-5)		
IARC group		1 - Carcinogenic to humans
Reproductive toxicity	:	Not classified
		(Based on available data, the classification criteria are not met)
Specific target organ toxicity (single exposure)	:	Not classified
		(Based on available data, the classification criteria are not met)
Specific target organ toxicity (repeated	:	Not classified
exposure)		(Based on available data, the classification criteria are not met)
Aspiration hazard	:	Not classified
		(Based on available data, the classification criteria are not met)
Potential Adverse human health effects and symptoms	:	Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	:	May cause cancer by inhalation. Prolonged and repeated inhalation of decomposition product may cause a pulmonary oedema. Depression of the central nervous system, headached dizziness, drowsiness, loss of coordination. Irritating to the respiratory system, may cause through and cough. Difficulty in breathing.
Symptoms/injuries after skin contact	:	May cause severe burns.
Symptoms/injuries after eye contact	:	Causes serious eye damage. Can cause blindness.

Symptoms/injuries after ingestion

: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Ingestion may cause nausea, vomiting and diarrhea.

## **SECTION 12: Ecological information**

#### 12.1. **Toxicity**

Ammonia (7664-41-7)	
LC50 fishes 1	0.44 mg/l (Exposure time: 96 h - Species: Cyprinus carpio)
EC50 Daphnia 1	25.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	0.26 - 4.6 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
Ethyl alcohol (64-17-5)	
LC50 fishes 1	12.0 - 16.0 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	9268 - 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 2	10800 mg/l (Exposure time: 24 h - Species: Daphnia magna)

#### 12.2. Persistence and degradability

Ammonia Inhalant Solution	
Persistence and degradability	Not established.

#### 12.3. **Bioaccumulative potential**

Ammonia Inhalant Solution	
Bioaccumulative potential	Not established.
Ammonia (7664-41-7)	
Log Pow	-1.14 (at 25 °C)

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Ethyl alcohol (64-17-5)	
Log Pow	-0.32

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

### **SECTION 13: Disposal considerations**

#### Waste treatment methods

Waste disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. Do not re-use empty containers. Ensure all national/local regulations are observed. Consult the appropriate authorities about waste disposal.

: Handle empty containers with care because residual vapours are flammable. Additional information

Ecology - waste materials : Avoid release to the environment.

### **SECTION 14: Transport information**

In accordance with DOT

Transport document description UN2924 Flammable liquids, corrosive, n.o.s. (Ammonia, Ethanol), 3, II

UN-No.(DOT) DOT NA no. : UN2924

**DOT Proper Shipping Name** : Flammable liquids, corrosive, n.o.s.

(Ammonia, Ethanol)

Department of Transportation (DOT) Hazard

Classes

Hazard labels (DOT)

: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

: 3 - Flammable liquid 8 - Corrosive





**DOT Symbols** : G - Identifies PSN requiring a technical name

Packing group (DOT) : II - Medium Danger

DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite

(31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T11 - 6 178.274(d)(2) Normal...... 178.275(d)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) 150 DOT Packaging Non Bulk (49 CFR 173.xxx) : 202 DOT Packaging Bulk (49 CFR 173.xxx) : 243 DOT Quantity Limitations Passenger aircraft/rail : 1 L (49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 5 L

CFR 175.75)

**DOT Vessel Stowage Location** : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

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DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

**Additional information** 

Other information : No supplementary information available.

**ADR** 

Transport document description : No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

Ammonia Inhalant Solution	
RQ (Reportable quantity, section 304 of EPA's	588 lb
List of Lists):	

Ammonia (7664-41-7)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 302 (Specific toxic chemical listings) Listed on SARA Section 313 (Specific toxic chemical listings)				
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	100 lb			
SARA Section 302 Threshold Planning Quantity (TPQ)	500			
SARA Section 313 - Emission Reporting	1.0 % (includes anhydrous Ammonia and aqueous Ammonia from water dissociable Ammonium salts and other sources, 10% of total aqueous Ammonia is reportable under this listing)			

### Ethyl alcohol (64-17-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

### CANADA

Ammonia (7664-41-7)		
Listed on the Canadian DSL (Domestic Sustances List) inventory.		
WHMIS Classification	Class A - Compressed Gas Class B Division 1 - Flammable Gas Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class E - Corrosive Material	

Ethyl alcohol (64-17-5)		
Listed on the Canadian DSL (Domestic Sustances List) inventory.		
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects	

### **EU-Regulations**

#### Ammonia (7664-41-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

# Ethyl alcohol (64-17-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

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### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

#### **National regulations** 15.2.2.

### Ammonia (7664-41-7)

Listed on the AICS (the Australian Inventory of Chemical Substances)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on the Korean ECL (Existing Chemical List) inventory.

Listed on New Zealand - Inventory of Chemicals (NZIoC)

Listed on Inventory of Chemicals and Chemical Substances (PICCS)

Poisonous and Deleterious Substances Control Law

Listed on the Canadian Ingredient Disclosure List

### Ethyl alcohol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

Listed on the AICS (the Australian Inventory of Chemical Substances)

Listed on Inventory of Existing Chemical Substances (IECSC)
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on the Korean ECL (Existing Chemical List) inventory.

Listed on New Zealand - Inventory of Chemicals (NZIoC)

Listed on Inventory of Chemicals and Chemical Substances (PICCS)

Listed on the Canadian Ingredient Disclosure List

### 15.3. US State regulations

Ethyl alcohol (64-17-5)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	Yes			

### **SECTION 16: Other information**

Other information : None.

Full text of H-phrases: see section 16:

Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Carc. 1A	Carcinogenicity, Category 1A	
Compressed gas	Gases under pressure : Compressed gas	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Flam. Gas 2	Flammable gases, Category 2	
Flam. Liq. 2	Flammable liquids Category 2	
Skin Corr. 1B	Skin corrosion/irritation Category 1B	
H221	Flammable gas	
H225	Highly flammable liquid and vapour	
H280	Contains gas under pressure; may explode if heated	
H314	Causes severe skin burns and eye damage	
H318	Causes serious eye damage	
H331	Toxic if inhaled	
H350	May cause cancer	

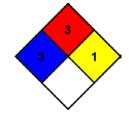
NFPA health hazard : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was

: 3 - Liquids and solids that can be ignited under almost all NFPA fire hazard

ambient conditions.

: 1 - Normally stable, but can become unstable at elevated NFPA reactivity temperatures and pressures or may react with water with

some release of energy, but not violently.



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SDS US (GHS HazCom 2012)

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