

### 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

GHS08

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 (CO<sub>2</sub>), 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<br>Carc. 1A, H350   |
| Ammonia       | (CAS No) 7664-41-7 | 15 - 20 | Flam. Gas 2, H221<br>Compressed gas, H280<br>Acute Tox. 3 (Inhalation:gas),<br>H331<br>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

#### 5.1. Extinguishing media

- Suitable extinguishing media : Alcohol resistant foam. Dry powder. Carbon dioxide. Sand.  
Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. 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.

#### 5.3. Advice for firefighters

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

#### 6.1. 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.  
Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

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

#### 6.3. 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 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.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.  
Precautions for safe handling : 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.  
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or 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/m <sup>3</sup> ) | 35 mg/m <sup>3</sup> |
| 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/m <sup>3</sup> ) | 1900 mg/m <sup>3</sup> |
| 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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### 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                             |
| Log Kow                                     | : No data available                             |
| 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<br>(Based on available data, the classification criteria are not met) |
|----------------|--|

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| <b>Ammonia (7664-41-7)</b> |             |
|----------------------------|-------------|
| LD50 oral rat              | 350 mg/kg   |
| LC50 inhalation rat (ppm)  | 2000 ppm/4h |

| <b>Ethyl alcohol (64-17-5)</b> |                                 |
|--------------------------------|---------------------------------|
| 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<br>(Based on available data, the classification criteria are not met) |
| Germ cell mutagenicity            | : Not classified<br>(Based on available data, the classification criteria are not met) |
| Carcinogenicity                   | : May cause cancer.  |

| <b>Ethyl alcohol (64-17-5)</b> |                            |
|--------------------------------|----------------------------|
| IARC group                     | 1 - Carcinogenic to humans |

|   |   |
|---|---|
| Reproductive toxicity                               | : Not classified<br>(Based on available data, the classification criteria are not met)  |
| Specific target organ toxicity (single exposure)    | : Not classified<br>(Based on available data, the classification criteria are not met)  |
| Specific target organ toxicity (repeated exposure)  | : Not classified<br>(Based on available data, the classification criteria are not met)  |
| Aspiration hazard                                   | : Not classified<br>(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 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.   |

## SECTION 12: Ecological information

### 12.1. Toxicity

| <b>Ammonia (7664-41-7)</b> |  |
|----------------------------|--|
| 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) |

| <b>Ethyl alcohol (64-17-5)</b> |   |
|--------------------------------|---|
| 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

| <b>Ammonia Inhalant Solution</b> |                  |
|----------------------------------|------------------|
| Persistence and degradability    | Not established. |

### 12.3. Bioaccumulative potential

| <b>Ammonia Inhalant Solution</b> |                  |
|----------------------------------|------------------|
| Bioaccumulative potential        | Not established. |

| <b>Ammonia (7664-41-7)</b> |                  |
|----------------------------|------------------|
| 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

#### 13.1. 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.

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

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) : 2924

DOT NA no. : UN2924

DOT Proper Shipping Name : Flammable liquids, corrosive, n.o.s.  
(Ammonia, Ethanol)

Department of Transportation (DOT) Hazard Classes : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 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 (49 CFR 173.27) : 1 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 5 L

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 List of Lists) :  | 588 lb  |
| Ammonia (7664-41-7)   |   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Listed on SARA Section 302 (Specific toxic chemical listings)<br>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 Substances List) inventory. |  |
| WHMIS Classification   | Class A - Compressed Gas<br>Class B Division 1 - Flammable Gas<br>Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects<br>Class E - Corrosive Material |
| Ethyl alcohol (64-17-5)  |  |
| Listed on the Canadian DSL (Domestic Substances List) inventory. |  |
| WHMIS Classification   | Class B Division 2 - Flammable Liquid<br>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

### 15.2.2. National regulations

#### 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

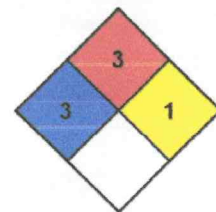
: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA fire hazard

: 3 - Liquids and solids that can be ignited under almost all ambient conditions.

NFPA reactivity

: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



# Ammonia Inhalant Solution

## Safety Data Sheet

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

SDS US (GHS HazCom 2012)

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| U.S. - California Proposition 65 | U.S. - California Proposition 65 | U.S. - California Proposition 65 | U.S. - California Proposition 65 | U.S. - California Proposition 65 |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Yes                              | Yes                              | Yes                              | Yes                              | Yes                              |

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|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Yes                              | Yes                              | Yes                              | Yes                              | Yes                              |



1 - Primary hazard (red) - Corrosive to metals  
 2 - Secondary hazard (blue) - Irritant  
 3 - Tertiary hazard (yellow) - Irritant  
 4 - Quaternary hazard (white) - None