

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : Ammonia-d3

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

According to Regulation (EC) No1272/2008

Flammable gases (Category 2)

Gases under pressure

Acute toxicity, Inhalation (Category 3)

Skin corrosion (Category 1B)

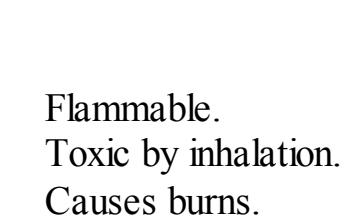
Acute aquatic toxicity (Category 1)

According to European Directive 67/548/EEC as amended.

Flammable. Toxic by inhalation. Causes burns. Very toxic to aquatic organisms.

Label elements

Pictogram



Signal word

Danger

Hazard statement(s)

Flammable gas.

H221

Causes severe skin burns and eye damage.

H314

Toxic if inhaled.

H331

Very toxic to aquatic life.

H400

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P210

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P261

Avoid release to the environment.

P273

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

P280

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P305 + P351 + P338

Immediately call a POISON CENTER or doctor/ physician.

P310

Hazard symbol(s)

T

Toxic

N

Dangerous for the environment

R-phrase(s)

Flammable.

R10

Toxic by inhalation.

R23

Causes burns.

R34

Very toxic to aquatic organisms.

R50

Keep container in a well-ventilated place.

S9

Keep away from sources of ignition - No smoking.

S16

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S26

Wear suitable protective clothing, gloves and eye/face protection.

S36/37/39

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S45

Avoid release to the environment. Refer to special instructions/ Safety data sheets.

S61

Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : D3N D3N

Molecular Weight : 20,05 g/mol 20,05 g/mol

CAS-No.	EC-No.	Classification	Concentration
13550-49-7	236-926-9	Flam. Gas 2; Press. Gas ; Acute Tox. 3; Skin Corr. 1B; Aquatic Acute 1; H221, H314, H331, H400 T, N, R10 - R23 - R34 - R50	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.

Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Clean up promptly by sweeping or vacuum.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Store under inert gas. hygroscopic

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Eye protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form gaseous

Safety data

pH no data available

Melting point -78 °C - lit.

Boiling point -33 °C - lit.

Flash point 132 °C - closed cup

Ignition temperature no data available

Lower explosion limit 15 % (V) at 1013 hPa

Upper explosion limit 30 % (V) at 1013 hPa

Vapour pressure 8.880,00 hPa at 21 °C

Water solubility no data available

10. STABILITY AND REACTIVITY

Chemical stability

Stable. Stable under recommended storage conditions.

Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

Materials to avoid

acids

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

GERM cell mutagenicity

no data available

Carcinogenicity

IARC: no component of this product present at levels greater than 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation: Membranes and upper respiratory tract. Destructive to the tissue of the mucous membranes and respiratory tract.

Ingestion: May be harmful if swallowed. Causes burns. Causes skin burns.

Skin: May be harmful if absorbed through skin. Causes skin burns.

Eyes: Causes eye burns.

Signs and Symptoms of Exposure

Skins, eyes and respiratory tract. Destructive to the tissue of the mucous membranes and respiratory tract.

Extremes of temperature and direct sunlight. Causes burns. Causes skin burns.

Heat, flames and sparks. Causes burns. Causes skin burns.

Electrostatic charge. Causes burns. Causes skin burns.

Acute toxicity. Causes burns. Causes skin burns.

Chemical stability. Causes burns. Causes skin burns.