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

Product name: Acetonitrile

Proper shipping name: ACETONITRILE, SOLUTION

Identification number(s): NA

IATA: NA

ADR/RID: NA

2. COMPOSITION/INFORMATION ON HAZARDS IDENTIFICATION

Proportion of substance in the mixture: 100%

EC number: No data available

EC name: No data available

PBT and vPvB assessment: No data available

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a possible or probable human carcinogen.

Carcinogenicity: No data available

Reproductive toxicity: No data available

Mutagenicity: No data available

Specific target organ toxicity - single exposure: No data available

Other adverse effects: No data available

Hazard statement(s): Harmful in contact with skin. Harmful if inhaled. Harmful if swallowed. Acute toxicity, Oral (Category 4). Acute toxicity, Inhalation (Category 4). Flammable liquids (Category 2). Eye irritation (Category 2). 

Label elements: Highly flammable. Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes.

Pictogram: H332, H319, Xn, R36

3. COMPOSITION/INFORMATION ON HAZARDS IDENTIFICATION

Molecular formula: C3H3N

Molecular weight: 52,09

Commercial name(s): ACETONITRILE, SOLUTION

Packing group: II

GHS classification: Flammable, Acute Tox.

Other hazards: None

4. FIRST AID

If inhaled: Remove to fresh air. If not breathing, give artificial respiration. Consult a physician.

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

If skin contacted: Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to explosive concentrations. Vapours can accumulate in low areas. Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

If eyes contacted: Use water spray to cool unopened containers. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.

Other advice: For R&D use only. Not for drug, household or other uses.

5. FIRE-FIGHTING

Hazardous decomposition products: Carbon oxides, nitrogen oxides (NOx)

Fire-fighting: Wear suitable protective clothing and gloves. Use water spray to cool unopened containers. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.

Other hazards: None

6. ACCIDENTAL RELEASE MEASURES

Hazardous decomposition products: None

Disposal: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as hazardous decomposition products are formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

Other hazards: None

7. HANDLING AND STORAGE

Stable under recommended storage conditions.

Precautions for safe handling: Keep away from sources of ignition - No smoking. Take measures to prevent the build up of explosive concentrations. Vapours can accumulate in low areas. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to explosive concentrations. Vapours can accumulate in low areas.

Personal protective equipment: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental precautions: Use water spray to cool unopened containers. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.

Methods and materials for containment and cleaning up: Use very large quantities (flooding) of water applied as a mist or fog.

Other hazards: None

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection: If exposure exceeds the threshold limit value, use a half- or full-face respirator with appropriate filter combination. The highest rating available should be used. The employer should consult the national authorities for advice on respirators to use.

Skin protection: Wear suitable protective clothing and gloves. Wear protective gloves/protective clothing. Wash and dry hands.

Eye protection: Wear protective glasses/face protection. Use protective glasses/face protection. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with appropriate filter combination.

Other hazards: None

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid

Flash point: 1.5 °C

Boiling point: 110.1 °C

Melting point: 523 °C

Density: 0,786 g/cm³ at 25 °C

Viscosity: 0,002 mPas at 30 °C

Solubility: 15% in water at 20 °C

PH: 6 (recommended range: 5.5 - 7.0)

pH: 2 (recommended range: 2 - 6)

Percentage by weight: 100%

Viscosity: 0,002 mPas at 30 °C

10. STABILITY

Stable under recommended storage conditions.

Conditions to avoid: Heat, flames and sparks. Extremes of temperature and direct sunlight.

Incompatible materials: None

11. TOXICOLOGICAL INFORMATION

Toxicological properties: None

Other hazards: None

12. ECOTOXICOLOGICAL INFORMATION

No data available

13. DISPOSAL

Methods and materials for disposal: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as hazardous decomposition products are formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

Other hazards: None

14. TRANSPORT INFORMATION

IATA: NA

ADR/RID: NA

UN: NA

Risk phrase(s): Xn, R22 - 

Precautionary statement(s): S16, S26, S31, S33, S36, S45, S49, S53 -

15. REGULATORY INFORMATION

Country of origin: United States

Safety datasheet: This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Other hazards: None

Additional information: This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.