# SAFETY DATA SHEET

### GHEMSERVICE ....

## 1. Identification

| Product identifier                    | Aldicarb sulfoxide Solution                                                     | n                               |
|---------------------------------------|---------------------------------------------------------------------------------|---------------------------------|
| Other means of identification<br>Item | S-11046A1                                                                       |                                 |
| Recommended use                       | For Laboratory Use Only                                                         |                                 |
| Recommended restrictions              | None known.                                                                     |                                 |
| Manufacturer/Importer/Supplier/I      | Distributor information                                                         |                                 |
| Manufacturer                          |                                                                                 |                                 |
| Company name<br>Address               | Chem Service, Inc.<br>660 Tower Lane<br>West Chester, PA 19380<br>United States |                                 |
| Telephone<br>Website                  | Toll Free<br>Direct<br>www.chemservice.com                                      | 800-452-9994<br>610-692-3026    |
| E-mail                                | info@chemservice.com                                                            |                                 |
| Emergency phone number                | Chemtrec US<br>Chemtrec outside US                                              | 800-424-9300<br>+1 703-527-3887 |

## 2. Hazard(s) identification

| Physical hazards      | Flammable liquids                 | Category 2  |
|-----------------------|-----------------------------------|-------------|
| Health hazards        | Acute toxicity, oral              | Category 3  |
|                       | Acute toxicity, dermal            | Category 3  |
|                       | Acute toxicity, inhalation        | Category 3  |
|                       | Serious eye damage/eye irritation | Category 2A |
| Environmental hazards | Not classified.                   |             |
| OSHA defined hazards  | Not classified.                   |             |

#### Label elements

| Signal word             | Danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard statement        | Highly flammable liquid and vapor. Toxic if swallowed. Toxic in contact with skin. Causes serious eye irritation. Toxic if inhaled.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Precautionary statement |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Prevention              | Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing. Wear protective gloves/eye protection/face protection.                                            |
| Response                | If swallowed: Immediately call a poison center/doctor. Rinse mouth. 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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor. If eye irritation persists: Get medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish. |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

99.99% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 99.99% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

### 3. Composition/information on ingredients

**Mixtures** 

| Chemical name      | Common name and synonyms | CAS number | %     |
|--------------------|--------------------------|------------|-------|
| Acetonitrile       |                          | 75-05-8    | 99.99 |
| Aldicarb sulfoxide |                          | 1646-87-3  | 0.01  |

### 4. First-aid measures

| Inhalation                                                                   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician.                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin contact                                                                 | Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Eye contact                                                                  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Ingestion                                                                    | Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.                                                                                                                                                                                                                                                                                                                        |
| Most important<br>symptoms/effects, acute and<br>delayed                     | Convulsions. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Indication of immediate<br>medical attention and special<br>treatment needed | Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| General information                                                          | Take off immediately all contaminated clothing. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 5. Fire-fighting measures                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Suitable extinguishing media                                                 | Water fog. Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Unsuitable extinguishing media                                               | Do not use water jet as an extinguisher, as this will spread the fire.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specific hazards arising from the chemical                                   | Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source<br>of ignition and flash back. This product is a poor conductor of electricity and can become<br>electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can<br>occur. To reduce potential for static discharge, use proper bonding and grounding procedures.<br>This liquid may accumulate static electricity when filling properly grounded containers. Static<br>electricity accumulation may be significantly increased by the presence of small quantities of water<br>or other contaminants. Material will float and may ignite on surface of water. During fire, gases<br>hazardous to health may be formed. |
| Special protective equipment<br>and precautions for firefighters             | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Fire fighting<br>equipment/instructions                                      | In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Specific methods                                                             | Use standard firefighting procedures and consider the hazards of other involved materials.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| General fire hazards                                                         | Highly flammable liquid and vapor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

### 6. Accidental release measures

| Personal precautions,<br>protective equipment and<br>emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Methods and materials for<br>containment and cleaning up                  | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                           | Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                           | Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                           | Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Environmental precautions                                                 | Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 7. Handling and storage                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Precautions for safe handling                                             | Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not taste or swallow. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. |
|                                                                           | For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Conditions for safe storage,<br>including any incompatibilities           | Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

### 8. Exposure controls/personal protection

### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

| Components                      | Туре | Value    |  |
|---------------------------------|------|----------|--|
| Acetonitrile (CAS 75-05-8)      | PEL  | 70 mg/m3 |  |
|                                 |      | 40 ppm   |  |
| US. ACGIH Threshold Limit Value | S    |          |  |
| Components                      | Туре | Value    |  |
| Acetonitrile (CAS 75-05-8)      | TWA  | 20 ppm   |  |

| Components                                        | Туре                                                       | Value                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acetonitrile (CAS 75-05-8)                        | TWA                                                        | 34 mg/m3                                                                                                                                                                                                                                                                                                      |
|                                                   |                                                            | 20 ppm                                                                                                                                                                                                                                                                                                        |
| ological limit values                             | No biological exposure limit                               | is noted for the ingredient(s).                                                                                                                                                                                                                                                                               |
| cposure guidelines                                |                                                            |                                                                                                                                                                                                                                                                                                               |
| US - California OELs: Skir                        | n designation                                              |                                                                                                                                                                                                                                                                                                               |
| Acetonitrile (CAS 75-05                           | ,                                                          | Can be absorbed through the skin.                                                                                                                                                                                                                                                                             |
| US - Minnesota Haz Subs                           | Skin designation applies                                   |                                                                                                                                                                                                                                                                                                               |
| Acetonitrile (CAS 75-05                           |                                                            | Skin designation applies.                                                                                                                                                                                                                                                                                     |
|                                                   | it Values: Skin designation                                |                                                                                                                                                                                                                                                                                                               |
| Acetonitrile (CAS 75-05<br>ppropriate engineering | ,                                                          | Can be absorbed through the skin.<br>d local exhaust ventilation. Good general ventilation (typically 10 air                                                                                                                                                                                                  |
|                                                   | applicable, use process end<br>maintain airborne levels be | e used. Ventilation rates should be matched to conditions. If<br>closures, local exhaust ventilation, or other engineering controls to<br>low recommended exposure limits. If exposure limits have not been<br>rne levels to an acceptable level. Provide eyewash station. Eye wash<br>owers are recommended. |
| dividual protection measure                       | s, such as personal protectiv                              | e equipment                                                                                                                                                                                                                                                                                                   |
| Eye/face protection                               | Wear safety glasses with si                                | de shields (or goggles).                                                                                                                                                                                                                                                                                      |
| Skin protection                                   |                                                            |                                                                                                                                                                                                                                                                                                               |
| Hand protection                                   | Wear appropriate chemical                                  | resistant gloves.                                                                                                                                                                                                                                                                                             |
| Other                                             | Wear appropriate chemical                                  | resistant clothing. Use of an impervious apron is recommended.                                                                                                                                                                                                                                                |
| Respiratory protection                            | limits (where applicable) or                               | ot maintain airborne concentrations below recommended exposure<br>to an acceptable level (in countries where exposure limits have not<br>oved respirator must be worn. Dust & vapor respirator.                                                                                                               |
| Thermal hazards                                   | Wear appropriate thermal p                                 | rotective clothing, when necessary.                                                                                                                                                                                                                                                                           |
| eneral hygiene<br>onsiderations                   | hygiene measures, such as                                  | Keep away from food and drink. Always observe good personal<br>washing after handling the material and before eating, drinking, and<br>work clothing and protective equipment to remove contaminants.                                                                                                         |

# 9. Physical and chemical properties

| Appearance |
|------------|
|------------|

| Physical state                               | Liquid.                                     |
|----------------------------------------------|---------------------------------------------|
| Form                                         | Liquid.                                     |
| Color                                        | Not available.                              |
| Odor                                         | Not available.                              |
| Odor threshold                               | Not available.                              |
| рН                                           | Not available.                              |
| Melting point/freezing point                 | -49 °F (-45 °C) estimated                   |
| Initial boiling point and boiling range      | 178.88 °F (81.6 °C) estimated               |
| Flash point                                  | 42.0 °F (5.6 °C) estimated                  |
| Evaporation rate                             | Not available.                              |
| Flammability (solid, gas)                    | Not applicable.                             |
| Upper/lower flammability or explosive limits |                                             |
| Flammability limit - lower<br>(%)            | 3 % estimated                               |
| Flammability limit - upper<br>(%)            | 16 % estimated                              |
| Explosive limit - lower (%)                  | Not available.                              |
| Explosive limit - upper (%)                  | Not available.                              |
| Vapor pressure                               | 0.00001 kPa at 25 °C<br>118.4 hPa estimated |

| Vapor density                              | Not available.              |
|--------------------------------------------|-----------------------------|
| Relative density                           | Not available.              |
| Solubility(ies)                            |                             |
| Solubility (water)                         | Not available.              |
| Partition coefficient<br>(n-octanol/water) | Not available.              |
| Auto-ignition temperature                  | 975.2 °F (524 °C) estimated |
| Decomposition temperature                  | Not available.              |
| Viscosity                                  | Not available.              |
| Other information                          |                             |
| Density                                    | 0.7873 g/cm3 estimated      |
| Explosive properties                       | Not explosive.              |
| Flammability class                         | Flammable IB estimated      |
| Oxidizing properties                       | Not oxidizing.              |
| Percent volatile                           | 99.99 % estimated           |
| Specific gravity                           | 0.79 estimated              |
| VOC                                        | 99.99 % estimated           |
|                                            |                             |

# 10. Stability and reactivity

| Reactivity                            | The product is stable and non-reactive under normal conditions of use, storage and transport.                                                  |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical stability                    | Material is stable under normal conditions.                                                                                                    |
| Possibility of hazardous<br>reactions | Hazardous polymerization does not occur.                                                                                                       |
| Conditions to avoid                   | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| Incompatible materials                | Strong oxidizing agents.                                                                                                                       |
| Hazardous decomposition<br>products   | No hazardous decomposition products are known.                                                                                                 |

# 11. Toxicological information

### Information on likely routes of exposure

| Inhalation                                                                   | Toxic if inhaled.                                                                                                                    |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Skin contact                                                                 | Toxic in contact with skin.                                                                                                          |
| Eye contact                                                                  | Causes serious eye irritation.                                                                                                       |
| Ingestion                                                                    | Toxic if swallowed.                                                                                                                  |
| Symptoms related to the physical, chemical and toxicological characteristics | Convulsions. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. |
| Information on toxicological effe                                            | ects                                                                                                                                 |
| Acute toxicity                                                               | Toxic if inhaled. Toxic in contact with skin. Toxic if swallowed.                                                                    |
| Skin corrosion/irritation                                                    | Prolonged skin contact may cause temporary irritation.                                                                               |
| Serious eye damage/eye<br>irritation                                         | Causes serious eye irritation.                                                                                                       |
| Respiratory or skin sensitization                                            | I                                                                                                                                    |
| <b>Respiratory sensitization</b>                                             | Not a respiratory sensitizer.                                                                                                        |
| Skin sensitization                                                           | This product is not expected to cause skin sensitization.                                                                            |
| Germ cell mutagenicity                                                       | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.                     |
| Carcinogenicity                                                              | Not classifiable as to carcinogenicity to humans.                                                                                    |
| Not listed.                                                                  | Evaluation of Carcinogenicity<br>d Substances (29 CFR 1910.1001-1050)                                                                |

| US. National Toxicology Pro<br>Not listed.            | gram (NTP) Report on Carcinogens                                             |
|-------------------------------------------------------|------------------------------------------------------------------------------|
| Reproductive toxicity                                 | This product is not expected to cause reproductive or developmental effects. |
| Specific target organ toxicity - single exposure      | Not classified.                                                              |
| Specific target organ toxicity -<br>repeated exposure | Not classified.                                                              |
| Aspiration hazard                                     | Not an aspiration hazard.                                                    |
| Chronic effects                                       | Prolonged inhalation may be harmful.                                         |

### 12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Components             |              | Species                         | Test Results                 |
|------------------------|--------------|---------------------------------|------------------------------|
| Acetonitrile (CAS 75-0 | )5-8)        |                                 |                              |
| Aquatic                |              |                                 |                              |
| Fish                   | LC50         | Fathead minnow (Pimephales prom | nelas) >100 mg/l, 96 hours   |
| Aldicarb sulfoxide (CA | S 1646-87-3) |                                 |                              |
| Aquatic                |              |                                 |                              |
| Crustacea              | EC50         | Water flea (Daphnia laevis)     | 0.039 - 0.046 mg/l, 48 hours |

# Bioaccumulative potential

| Partition coefficient n-octanol / water (log Kow) |                                                                                                      |  |  |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------|--|--|
| Acetonitrile                                      | -0.34                                                                                                |  |  |
| Mobility in soil                                  | No data available.                                                                                   |  |  |
| Other adverse effects                             | The product contains volatile organic compounds which have a photochemical ozone creation potential. |  |  |

### 13. Disposal considerations

| Disposal instructions                    | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of<br>contents/container in accordance with local/regional/national/international regulations.                      |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Local disposal regulations               | Dispose in accordance with all applicable regulations.                                                                                                                                                           |
| Hazardous waste code                     | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.                                                                                                   |
| Waste from residues / unused<br>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                   | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.       |

### 14. Transport information

### DOT

| UN number                    | UN1648                                                                  |
|------------------------------|-------------------------------------------------------------------------|
| UN proper shipping name      | Acetonitrile, solution (Acetonitrile RQ = 5001 LBS)                     |
| Transport hazard class(es)   |                                                                         |
| Class                        | 3                                                                       |
| Subsidiary risk              | -                                                                       |
| Label(s)                     | 3                                                                       |
| Packing group                | I                                                                       |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Special provisions           | IB2, T7, TP2                                                            |
| Packaging exceptions         | 150                                                                     |
| Packaging non bulk           | 202                                                                     |
| Packaging bulk               | 242                                                                     |
|                              |                                                                         |

#### ΙΑΤΑ

| UN numberUN1648UN proper shipping name<br>Transport hazard class(es)Acetonitrile solution (Acetonitrile)Class3Subsidiary risk-Packing groupIIPacking groupIIERG Code3LSpecial precautions for use<br>aircraftRead safety instructions, SDS and emergency procedures before handling.Other informationHowed with restrictions.Transport hazard class(es)Allowed with restrictions.IMDGUN1648UN numberUN1648UN numberACETONITRILE SOLUTION (Acetonitrile)Transport hazard class(es)-Class3Subsidiary risk-Amine pollutantNo.Farsport hazards-Marine pollutantNo.Noi establishedNonmest Hist CodeNoi established.Amine No Amine Ni Busci Subsidistry risk-Noi establishedAmine Noi Amine Ni Busci Subsidistry riskNoi established.Noi establishedNoi establishedNoi established                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | IATA                         |                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------|
| Transport hazard class(es)Class3Subsidiary risk-Packing groupIIEnvironmental hazardsNo.ERG Code3LSpecial precautions for user<br>other informationRead safety instructions, SDS and emergency procedures before handling.<br>Other informationPassenger and cargo<br>aircraft<br>Cargo aircraft onlyAllowed with restrictions.<br>aircraft<br>Cargo aircraft onlyIMDGUN1648UN numberUN1648UN proper shipping name<br>Transport hazard class(es)Class3Subsidiary risk<br>Packing group-Packing groupIIEnvironmental hazards-Marine pollutant<br>EmSNo.FensF-E, S-DSpecial precautions for user<br>Not established.Not established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UN number                    | UN1648                                                                           |
| Class3Subsidiary risk-Packing groupIIEnvironmental hazardsNo.ERG Code3LSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling.Other informationAllowed with restrictions.Passenger and cargo<br>aircraft<br>Cargo aircraft onlyAllowed with restrictions.IMDGUN1648<br>ACETONITRILE SOLUTION (Acetonitrile)Import framsport hazard class(e)3Class3Subsidiary risk-Packing groupIIEnvironmental hazardsSubsidiary riskMarine pollutantNo.EmSF-E, S-DSpecial precautions for userF-E, S-DSpecial precautions for userKot established.Not established.Not established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | UN proper shipping name      | Acetonitrile solution (Acetonitrile)                                             |
| Subsidiary risk-Packing groupIIEnvironmental hazardsNo.ERG Code3LSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling.Other informationRead safety instructions.Passenger and cargo<br>aircraft<br>Cargo aircraft onlyAllowed with restrictions.IMDGUN numberUN1648UN proper shipping name<br>Transport hazard class(es)ACETONITRILE SOLUTION (Acetonitrile)Class3Subsidiary risk-Packing groupIIEnvironmental hazardsNo.EmsF-E, S-DSpecial precautions for userF-E, S-DSpecial precautions for userNot established.Not established.Not established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Transport hazard class(es)   |                                                                                  |
| Packing groupIIEnvironmental hazardsNo.ERG Code3LSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling.Other informationPassenger and cargo<br>aircraft<br>Cargo aircraft onlyAllowed with restrictions.Passenger and cargo<br>aircraft<br>Cargo aircraft onlyAllowed with restrictions.IMDGUN numberUN1648UN numberUN1648UN proper shipping name<br>Transport hazard class(es)3Class3Subsidiary risk<br>Environmental hazards-Marine pollutant<br>Special precautions for userNo.EmSF-E, S-DSpecial precautions for userF-E, S-DSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling.Transport in bulk according to<br>Annex II of MARPOL 73/78 andNo.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Class                        | 3                                                                                |
| Environmental hazardsNo.ERG Code3LSpecial precautions for user<br>Other informationRead safety instructions, SDS and emergency procedures before handling.Passenger and cargo<br>aircraft<br>Cargo aircraft onlyAllowed with restrictions.IMDGAllowed with restrictions.IMDGUN 1648<br>ACETONITRILE SOLUTION (Acetonitrile)Transport hazard class(es)3Class3Subsidiary risk-Packing groupIIEnvironmental hazardsNo.Marine pollutantNo.EmSF-E, S-DSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling.Transport in bulk according to<br>Annex II of MARPOL 73/78 andNo.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Subsidiary risk              | -                                                                                |
| ERG ⊂ode       3L         Special precautions for use other information       Read safety instructions, SDS and emergency procedures before handling.         Passenger and cargo aircraft       Allowed with restrictions.         cargo aircraft only       Allowed with restrictions.         torago aircraft       Allowed with restrictions.         cargo aircraft only       Allowed with restrictions.         torago aircraft       Allowed with restrictions.         torago aircraft only       Allowed with restrictions.         torago aircraft       Allowed with restrictions.         torago aircraft only       Allowed with restrictions.         torago aircraft only       Allowed with restrictions.         torago aircraft       UN 1648         torago aircraft orly       ACETONITRILE SOLUTION (Acetonitrile)         subsidiary risk       -         subsidiary risk       -         subsidiary risk       -         fems       No.         torago aircraft orly       F-E, S-D         subsidiary risk       Keat safety instructions, SDS and emergency procedures before handling. | Packing group                | II                                                                               |
| Special precautions for user<br>Other informationRead safety instructions, SDS and emergency procedures before handling.Passenger and cargo<br>aircraft<br>Cargo aircraft onlyAllowed with restrictions.IMDGUN numberUN1648<br>ACETONITRILE SOLUTION (Acetonitrile)IMDGUN proper shipping name<br>Transport hazard class(es)ACETONITRILE SOLUTION (Acetonitrile)Class3<br>Subsidiary risk-Packing groupII<br>Environmental hazards<br>Marine pollutant<br>EmSNo.EmSF-E, S-D<br>Special precautions for user<br>Annex II of MARPOL 73/78 andNo.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Environmental hazards        | No.                                                                              |
| Other informationAllowed with restrictions.Passenger and cargo<br>aircraftAllowed with restrictions.Cargo aircraft onlyAllowed with restrictions.IMDGUN numberUN 1648UN numberUN 1648UN proper shipping name<br>Transport hazard class(es)ACETONITRILE SOLUTION (Acetonitrile)Class3Subsidiary risk-Packing groupIIEnvironmental hazardsNo.Marine pollutant<br>EmSNo.Fe, S-DSpecial precautions for user<br>Transport in bulk according to<br>Annex II of MARPOL 73/78 and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ERG Code                     | 3L                                                                               |
| Passenger and cargo<br>aircraft<br>Cargo aircraft onlyAllowed with restrictions.IMDGAllowed with restrictions.IMDGUN numberUN1648<br>ACETONITRILE SOLUTION (Acetonitrile)Transport hazard class(es)Import a state and class(es)Class3Subsidiary risk-Packing groupIIEnvironmental hazardsNo.Marine pollutantNo.EmSF-E, S-DSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling.<br>Not established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Special precautions for use  | r Read safety instructions, SDS and emergency procedures before handling.        |
| aircraft<br>Cargo aircraft onlyAllowed with restrictions.IMDGUN numberUN1648UN proper shipping name<br>Transport hazard class(es)ACETONITRILE SOLUTION (Acetonitrile)Class3Subsidiary risk-Packing groupIIEnvironmental hazardsNo.EmSF-E, S-DSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling.Transport in bulk according to<br>Annex II of MARPOL 73/78 andNo.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Other information            |                                                                                  |
| IMDG<br>UN number<br>UN number<br>UN proper shipping name<br>Transport hazard class(es)<br>Class<br>Subsidiary risk<br>Class<br>Subsidiary risk<br>-<br>Packing group<br>II<br>Environmental hazards<br>Marine pollutant<br>EmS<br>Special precautions for user<br>Transport in bulk according to<br>Annex II of MARPOL 73/78 and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              | Allowed with restrictions.                                                       |
| UN numberUN1648UN proper shipping nameACETONITRILE SOLUTION (Acetonitrile)Transport hazard class(es)ACETONITRILE SOLUTION (Acetonitrile)Class3Subsidiary risk-Packing groupIIEnvironmental hazardsNo.Marine pollutantNo.EmSF-E, S-DSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling.<br>Not established.Transport in bulk according to<br>Annex II of MARPOL 73/78 andNot established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Cargo aircraft only          | Allowed with restrictions.                                                       |
| UN proper shipping name<br>Transport hazard class(es)ACETONITRILE SOLUTION (Acetonitrile)Class3Subsidiary risk-Packing groupIIEnvironmental hazardsNo.Marine pollutantNo.EmSF-E, S-DSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling.<br>Not established.Transport in bulk according to<br>Annex II of MARPOL 73/78 andNot established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | IMDG                         |                                                                                  |
| Transport hazard class(es)       3         Class       3         Subsidiary risk       -         Packing group       II         Environmental hazards       No.         Marine pollutant       No.         EmS       F-E, S-D         Special precautions for user       Read safety instructions, SDS and emergency procedures before handling.         Transport in bulk according to       Not established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | UN number                    | UN1648                                                                           |
| Class3Subsidiary risk-Packing groupIIEnvironmental hazardsNo.Marine pollutantNo.EmSF-E, S-DSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling.Transport in bulk according to<br>Annex II of MARPOL 73/78 andNo.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | UN proper shipping name      | ACETONITRILE SOLUTION (Acetonitrile)                                             |
| Subsidiary risk       -         Packing group       II         Environmental hazards       No.         Marine pollutant       No.         EmS       F-E, S-D         Special precautions for user       Read safety instructions, SDS and emergency procedures before handling.         Transport in bulk according to       Not established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Transport hazard class(es)   |                                                                                  |
| Packing group       II         Environmental hazards       No.         Marine pollutant       No.         EmS       F-E, S-D         Special precautions for user       Read safety instructions, SDS and emergency procedures before handling.         Transport in bulk according to Annex II of MARPOL 73/78 and       Not established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Class                        | 3                                                                                |
| Environmental hazards       Marine pollutant       No.         EmS       F-E, S-D         Special precautions for user       Read safety instructions, SDS and emergency procedures before handling.         Transport in bulk according to       Not established.         Annex II of MARPOL 73/78 and       Vot established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Subsidiary risk              | -                                                                                |
| Marine pollutant       No.         EmS       F-E, S-D         Special precautions for user       Read safety instructions, SDS and emergency procedures before handling.         Transport in bulk according to Annex II of MARPOL 73/78 and       Not established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Packing group                | II                                                                               |
| EmS       F-E, S-D         Special precautions for user       Read safety instructions, SDS and emergency procedures before handling.         Transport in bulk according to       Not established.         Annex II of MARPOL 73/78 and       F-E, S-D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Environmental hazards        |                                                                                  |
| Special precautions for userRead safety instructions, SDS and emergency procedures before handling.Transport in bulk according to<br>Annex II of MARPOL 73/78 andNot established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Marine pollutant             | No.                                                                              |
| Transport in bulk according to       Not established.         Annex II of MARPOL 73/78 and       Not established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | EmS                          | F-E, S-D                                                                         |
| Annex II of MARPOL 73/78 and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Special precautions for use  | <b>r</b> Read safety instructions, SDS and emergency procedures before handling. |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Annex II of MARPOL 73/78 and | Not established.                                                                 |

#### DOT



### 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Listed.

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

Not regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Acetonitrile (CAS 75-05-8)

SARA 304 Emergency release notification

#### Not regulated.

Material name: Aldicarb sulfoxide SolutionS-11046A1Version #: 03Revision date: 08-25-2021Issue date: 06-16-2014

| OSHA Specifically Regulate                | ed Substances (29 CFR                                                                                               | 1910.1001-1050)       |                                                      |                                                       |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------|-------------------------------------------------------|
| Not regulated.                            |                                                                                                                     |                       |                                                      |                                                       |
| Superfund Amendments and Re               | eauthorization Act of 19                                                                                            | 86 (SARA)             |                                                      |                                                       |
| Hazard categories                         | Immediate Hazard - Ye<br>Delayed Hazard - No<br>Fire Hazard - Yes<br>Pressure Hazard - No<br>Reactivity Hazard - No | 25                    |                                                      |                                                       |
| SARA 302 Extremely hazar                  | dous substance                                                                                                      |                       |                                                      |                                                       |
| Not listed.                               |                                                                                                                     |                       |                                                      |                                                       |
| SARA 311/312 Hazardous chemical           | No                                                                                                                  |                       |                                                      |                                                       |
| SARA 313 (TRI reporting)<br>Chemical name |                                                                                                                     | CAS number            | % by wt.                                             |                                                       |
| Acetonitrile                              |                                                                                                                     | 75-05-8               | 99.99                                                |                                                       |
| Other federal regulations                 |                                                                                                                     |                       |                                                      |                                                       |
| Clean Air Act (CAA) Section               | n 112 Hazardous Air Pol                                                                                             | lutants (HAPs) List   |                                                      |                                                       |
| Acetonitrile (CAS 75-05-                  | 8)                                                                                                                  |                       |                                                      |                                                       |
| Clean Air Act (CAA) Section               | n 112(r) Accidental Rele                                                                                            | ase Prevention (40 C  | FR 68.130)                                           |                                                       |
| Not regulated.                            |                                                                                                                     |                       |                                                      |                                                       |
| Safe Drinking Water Act<br>(SDWA)         | 0.001 mg/l<br>0.004 mg/l                                                                                            |                       |                                                      |                                                       |
| US state regulations                      |                                                                                                                     |                       | orcement Act of 1986 (P<br>tly listed as carcinogens | roposition 65): This material or reproductive toxins. |
| US. California. Candida<br>subd. (a))     | ate Chemicals List. Safe                                                                                            | r Consumer Products   | Regulations (Cal. Cod                                | le Regs, tit. 22, 69502.3,                            |
| Acetonitrile (CAS 75                      | 5-05-8)                                                                                                             |                       |                                                      |                                                       |
| International Inventories                 |                                                                                                                     |                       |                                                      |                                                       |
| Country(s) or region                      | Inventory name                                                                                                      |                       |                                                      | On inventory (yes/no)*                                |
| Australia                                 | Australian Inventory of                                                                                             | Chemical Substances   | (AICS)                                               | No                                                    |
| Canada                                    | Domestic Substances                                                                                                 | _ist (DSL)            |                                                      | No                                                    |
| Canada                                    | Non-Domestic Substar                                                                                                | ices List (NDSL)      |                                                      | No                                                    |
| China                                     | Inventory of Existing C                                                                                             | hemical Substances in | China (IECSC)                                        | No                                                    |
| Europe                                    | European Inventory of Substances (EINECS)                                                                           | Existing Commercial C | Chemical                                             | No                                                    |
| Europe                                    | European List of Notifie                                                                                            | ed Chemical Substanc  | es (ELINCS)                                          | No                                                    |
| Japan                                     | Inventory of Existing ar                                                                                            | nd New Chemical Subs  | stances (ENCS)                                       | No                                                    |
| Korea                                     | Existing Chemicals Lis                                                                                              | t (ECL)               |                                                      | No                                                    |
|                                           |                                                                                                                     |                       |                                                      |                                                       |

 New Zealand
 New Zealand Inventory

 Philippines
 Philippine Inventory of Chemicals and Chemical Substances (PICCS)

 United States & Puerto Rico
 Toxic Substances Control Act (TSCA) Inventory

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

# 16. Other information, including date of preparation or last revision

| Issue date    | 06-16-2014                                     |
|---------------|------------------------------------------------|
| Revision date | 08-25-2021                                     |
| Version #     | 03                                             |
| NFPA ratings  | Health: 3<br>Flammability: 3<br>Instability: 0 |

No

No

No

Disclaimer

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#### **Revision information**