# GHEMSERVICE.

# SAFETY DATA SHEET

### 1. Identification

| Product identifier              | Fenthion oxon sulfoxide Sol | ution           |
|---------------------------------|-----------------------------|-----------------|
| Other means of identification   |                             |                 |
| Item                            | MET-11964FA1                |                 |
| Recommended use                 | For Laboratory Use Only     |                 |
| Recommended restrictions        | None known.                 |                 |
| Manufacturer/Importer/Supplier/ | Distributor information     |                 |
| Manufacturer                    |                             |                 |
| Company name                    | Chem Service, Inc.          |                 |
| Address                         | 660 Tower Lane              |                 |
|                                 | West Chester, PA 19380      |                 |
|                                 | United States               |                 |
| Telephone                       | Toll Free                   | 800-452-9994    |
|                                 | Direct                      | 610-692-3026    |
| Website                         | www.chemservice.com         |                 |
| E-mail                          | info@chemservice.com        |                 |
| Emergency phone number          | Chemtrec US                 | 800-424-9300    |
|                                 | Chemtrec outside US         | +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 4  |
|                       | Serious eye damage/eye irritation | Category 2A |
| Environmental hazards | Not classified.                   |             |
| OSHA defined hazards  | Not classified.                   |             |

Label elements

| bereientents            |  |
|-------------------------|--|
| Signal word             | Danger   |
| Hazard statement        | Highly flammable liquid and vapor. Toxic if swallowed. Toxic in contact with skin. Causes serious eye irritation. Harmful 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 eye protection/face protection. Wear protective gloves/protective clothing. Wear protective gloves/eye protection/face protection.                          |
| Response                | If swallowed: Immediately call a poison center/doctor. 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 you feel unwell. Rinse mouth. 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                 | Store in a well-ventilated place. Keep cool. Store locked up.  |

Disposal Hazard(s) not otherwise classified (HNOC) Supplemental information 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.

0.01% of the mixture consists of component(s) of unknown acute oral toxicity. 0.01% of the mixture consists of component(s) of unknown acute dermal toxicity. 0.01% of the mixture consists of component(s) of unknown acute inhalation toxicity.

### 3. Composition/information on ingredients

#### **Mixtures**

| Chemical name           | Common name and synonyms | CAS number | %        |
|-------------------------|--------------------------|------------|----------|
| Acetonitrile            |                          | 75-05-8    | 99 - 100 |
| Fenthion-oxon sulfoxide |                          | 6552-13-2  | 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. Call a POISON CENTER or doctor/physician if you feel unwell.  |
|--|--|
| 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   | Alcohol resistant foam. Water fog. 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 of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases 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). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.  |
|   | Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. 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. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. 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/perso  | onal protection  |
| Occupational exposure limits  |  |
|   |  |

| Components                      | Туре | Value    |  |
|---------------------------------|------|----------|--|
| Acetonitrile (CAS 75-05-8)      | PEL  | 70 mg/m3 |  |
|                                 |      | 40 ppm   |  |
| US. ACGIH Threshold Limit Value | 5    |          |  |
| Components                      | Туре | Value    |  |
| Acetonitrile (CAS 75-05-8)      | TWA  | 20 ppm   |  |

| Components  | Туре   | Value  |
|---|--|--|
| Acetonitrile (CAS 75-05-8)                              | TWA  | 34 mg/m3<br>20 ppm   |
| ological limit values                                   | No biological exposure limits noted  | for the ingredient(s).   |
| posure guidelines                                       |  |  |
| US - California OELs: Skin o                            | designation  |  |
| Acetonitrile (CAS 75-05-8<br>US - Minnesota Haz Subs: S |  | n be absorbed through the skin.  |
| Acetonitrile (CAS 75-05-8<br>US ACGIH Threshold Limit   |  | in designation applies.  |
| Acetonitrile (CAS 75-05-8                               | 8) Ca  | n be absorbed through the skin.  |
| propriate engineering<br>ntrols                         | changes per hour) should be used<br>applicable, use process enclosures<br>maintain airborne levels below rec | exhaust ventilation. Good general ventilation (typically 10 air<br>. Ventilation rates should be matched to conditions. If<br>s, local exhaust ventilation, or other engineering controls to<br>commended exposure limits. If exposure limits have not been<br>els to an acceptable level. Provide eyewash station. Eye wash<br>are recommended. |
| lividual protection measures,                           | , such as personal protective equip  | oment  |
| Eye/face protection                                     | Wear safety glasses with side shie   | lds (or goggles).  |
| Skin protection   |  |  |
| Hand protection   | Wear appropriate chemical resista<br>supplier.   | nt gloves. Suitable gloves can be recommended by the glove   |
| Other   | Wear appropriate chemical resista  | nt clothing. Use of an impervious apron is recommended.  |
| Respiratory protection                                  | limits (where applicable) or to an a   | tain airborne concentrations below recommended exposure cceptable level (in countries where exposure limits have not spirator must be worn. Dust & vapor respirator.   |
| Thermal hazards   | Wear appropriate thermal protective  | e clothing, when necessary.  |
| eneral hygiene<br>nsiderations                          |  | way from food and drink. Always observe good personal ng after handling the material and before eating, drinking, and  |

# 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 exp         | osive 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                          | 118.39 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      |
| <b>Oxidizing properties</b>                | Not oxidizing.              |
| Percent volatile                           | 99.99 % estimated           |
| Specific gravity                           | 0.79 estimated              |
| VOC (Weight %)                             | 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   | Harmful 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 effects

Acute toxicity

| Toxic in contact with skin    | Toxic if swallowed    | Harmful if inhaled |
|-------------------------------|-----------------------|--------------------|
| TOXIC ITI COTILACI WILLI SKIT | . TOXIC II SWallOWEU. |                    |

| Components                 | Species    | Test Results       |  |
|----------------------------|------------|--------------------|--|
| Acetonitrile (CAS 75-05-8) |            |                    |  |
| <u>Acute</u>               |            |                    |  |
| Dermal                     |            |                    |  |
| LD50                       | Rabbit     | 390 mg/kg          |  |
|                            |            | 0.5 ml/kg          |  |
| Inhalation                 |            |                    |  |
| LC100                      | Dog        | 16000 ppm, 4 Hours |  |
| LC50                       | Guinea pig | 5655 ppm, 4 Hours  |  |
|                            | Mouse      | 3587 ppm, 4 Hours  |  |
|                            |            | 2693 ppm, 1 Hours  |  |
|                            | Rabbit     | 2825 ppm, 4 Hours  |  |

| Components   | Species  |   | Test Results   |
|--|--|---|--|
|  | Rat  |   | 17100 ppm, 4 Hours   |
|  |  |   | 7500 ppm, 8 Hours  |
|  |  |   | 330 ppm, 90 Days   |
|  |  |   | 75 mg/l  |
| Oral   |  |   |  |
| LD50   | Guinea pig   |   | 140 mg/kg  |
|  |  |   | 0.177 ml/kg  |
|  | Mouse  |   | 269 mg/kg  |
|  | Rat  |   | 158 mg/kg  |
|  |  |   | 1.68 - 4.49 ml/kg  |
| Other  |  |   |  |
| LD50   | Mouse  |   | 0.25 g/kg  |
|  | Rat  |   | 1100 mg/kg   |
|  |  |   | 0.85 ml/kg   |
| * Estimatos for product mous                               | o bacad an add   | l component data not chave  |  |
| * Estimates for product may b<br>Skin corrosion/irritation |  | n component data not snown.<br>htact may cause temporary irritation | on   |
| Serious eye damage/eye                                     | Causes seriou  |   | 51.  |
| irritation   |  |   |  |
| Respiratory or skin sensitization                          | า  |   |  |
| <b>Respiratory sensitization</b>                           | Not a respirate  | ensitizer.  |  |
| Skin sensitization   | This product is  | expected to cause skin sensitization                                | tion.  |
| Germ cell mutagenicity                                     | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |   |  |
| Carcinogenicity  | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.                                  |   |  |
| US. OSHA Specifically Regu<br>Not listed.                  | ulated Substand  | 29 CFR 1910.1001-1050)  |  |
| Reproductive toxicity                                      | This product is  | expected to cause reproductive of                                   | or developmental effects.  |
| Specific target organ toxicity -<br>single exposure        | Not classified.  |   |  |
| Specific target organ toxicity -<br>repeated exposure      | Not classified.  |   |  |
| Aspiration hazard  | Not an aspirat   | azard.  |  |
| Chronic effects  | Prolonged inhalation may be harmful.   |   |  |
| 12. Ecological informatior                                 |  |   |  |
| Ecotoxicity  | The product is   |   | ardous. However, this does not exclude the<br>rmful or damaging effect on the environment. |
| Components   | , <u> </u>   | ecies   | Test Results   |
| Acetonitrile (CAS 75-05-8)                                 |  |   |  |
| Aquatic  |  |   |  |
| -  | LC50   | head minnow (Pimephales prome                                       | elas) >100 mg/l, 96 hours  |
| * Estimates for a first for the                            | - h 1.1  | design and the sector   |  |
| * Estimates for product may b                              |  |   | luot   |
| Persistence and degradability                              | IND DATA IS AVA  | e on the degradability of this proc                                 | JUCI.  |
| Bioaccumulative potential                                  | al /   |   |  |
| Partition coefficient n-octan<br>Acetonitrile              | ioi / water (log l   | -0.34   |  |
| Mobility in soil   | No data availa   |   |  |
| Other adverse effects                                      | No other adve  | environmental effects (e.g. ozone                                   | depletion, photochemical ozone creation  |

### 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<br>emptied. Empty containers should be taken to an approved waste handling site for recycling or<br>disposal. |

# 14. Transport information

\_ \_ \_

| UN numberUN1648UN proper shipping nameAcetonitrile, solution (Acetonitrile RQ = 5001 LBS)Transport hazard class(a)3Subsidiary risk-Subsidiary risk3Packing groupIIBackaging exceptionsIB2, T7, TP2Packaging exceptionsIB2, T7, TP2Packaging sceptionsIB2, T7, TP2Packaging bulk202Packaging bulk202VIN numberUN 10648UN proper shipping nameAcetonitrile solution (Acetonitrile)Transport nazard class(b)3ERG Code3Subsidiary risk-Packing groupIIUN numberAllowed.UN proper shipping nameAcetonitrile SoluTION (Acetonitrile)UN proper shipping nameAcetonITRILE SOLUTION (Acetonitrile)UN proper shipping nameAcetonITRILE SOLUTION (Acetonitrile)UN proper shipping nameFCSubsidiary risk-   | DOT                          |   |
|--|------------------------------|---|
| Transport hazard class(es)3Class3Subsidiary risk-Label(s)3Packing groupIISpecial precutions for userRead safety instructions, SDS and emergency procedures before handling.Special provisionsIB2, T7, TP2Packaging exceptions150Packaging on bulk202Packaging bulk242IATAUN numberUN numberUN1648UN proper shipping nameAcetonitrile solution (Acetonitrile)Transport hazard class(es)-Class3Subsidiary risk-Packing groupIIEnvironmental hazardsNo.ERG Code3LSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling.Other information-Passenger and cargo<br>aircraftAllowed.UN numberUN1648UN numberUN1648UN proper shipping name<br>ActoTONITRILE SOLUTION (Acetonitrile)Transport hazard class(es)-Cargo aircraft only<br>ClassAllowed.UN numberUN1648UN proper shipping name<br>Class3Subsidiary risk-Packing groupIIEnvironmental hazard-Transport hazard class(es)-Class3Subsidiary risk-Packing groupIIEnvironmental hazards-Subsidiary risk-Facs3Subsidiary risk<   | UN number                    | UN1648  |
| Class3Subsidiary risk-Label(s)3Packing groupIIPackaging provisionsReal safety instructions, SDS and emergency procedures before handling.Special precautions for userRead safety instructions, SDS and emergency procedures before handling.Special precautions for userRead safety instructions, SDS and emergency procedures before handling.Special precautions for userRead safety instructions, SDS and emergency procedures before handling.Packaging on bulk202Packaging on bulk202Packaging poubIS0Packaging poubVI1648UN proper shipping nameAcetonitrile solution (Acetonitrile)Transport hazard class(e)3Subsidiary risk-Class3Subsidiary risk-Packing groupIIEnvironmental hazardsNo.ERG Code3LSpecial precautions for userAllowed.Other informationAllowed.IDDGUN 1648UN numberUN1648UN proper shipping nameCETONITRILE SOLUTION (Acetonitrile)Transport hazard class(e)3Subsidiary risk-Class3Subsidiary risk-Packing groupIIUN numberUN1648UN proper shipping nameCETONITRILE SOLUTION (Acetonitrile)Transport hazard class(es)-Subsidiary risk-EnsiRead safety instructions, SDS and emergency procedures before handling.   | UN proper shipping name      | Acetonitrile, solution (Acetonitrile RQ = 5001 LBS)                     |
| Subsidiary risk<br>Label(s)-Packing groupIISpecial precutions for userRead safety instructions, SDS and emergency procedures before handling.Special provisionsIB2, T7, TP2Packaging exceptions150Packaging non bulk202Packaging bulk242IATUN numberUN 1648UN proper shipping name<br>transport hazard class(es)Acctonitrile solution (Acctonitrile)Transport hazard class(es)IIClass3Subsidiary risk-Class3Special precautions for userRead safety instructions, SDS and emergency procedures before handling.Packing groupIIEnvironmental hazardsNo.Special precautions for userRead safety instructions, SDS and emergency procedures before handling.Citas3Special precautions for userRead safety instructions, SDS and emergency procedures before handling.CitasAllowed.IMDGUN numberUN numberUN1648UN proper shipping name<br>aircraftAcETONITRILE SOLUTION (Acetonitrile)ITarsport hazard class(es)CETONITRILE SOLUTION (Acetonitrile)Transport hazard class(es)3Class3Subsidiary risk-Subsidiary risk-FindCETONITRILE SOLUTION (Acetonitrile)Finding roupNo.Ens'SolutionFinding roupRead safety instructions, SDS and emergency procedures before handling.Finding roupNo. <th>Transport hazard class(es)</th> <th></th> | Transport hazard class(es)   |   |
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| Packing groupIPackaging precautions for userRead safety instructions, SDS and emergency procedures before handling.Special provisionsIB2, T7, TP2Packaging exceptions150Packaging non bulk202Packaging bulk242IATAUN numberUN1648UN numberUN1648UN proper shipping nameAcctonitrile solution (Acetonitrile)Transport hazard class(es)3Class3Subsidiary risk-Packaing groupIIEnvironmental hazardsNo.ERG Code3LSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling.Other informationAllowed.IMDGUN numberUN1648UN proper shipping nameACETONITRILE SOLUTION (Acetonitrile)Transport hazard class(es)IPassenger and cargo<br>aircraftACETONITRILE SOLUTION (Acetonitrile)Class3Subsidiary risk-Class3Subsidiary risk-Read safety instructions, SDS and emergency procedures before handling.Marine pollutantNo.Erns3Subsidiary risk-Packing groupIIErnsFE, S-DSpecial precautions for userRead safety instructions, SDS and emergency procedures before handling.Marine pollutantNo.ErnsRead safety instructions, SDS and emergency procedures before handling.Marine pollutantNo.<   | Subsidiary risk              | -   |
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| aircraft<br>Cargo aircraft only<br>MDG<br>UN number<br>UN 1648<br>ACETONITRILE SOLUTION (Acetonitrile)<br>Transport hazard class(es)<br>Class<br>Subsidiary risk<br>Class<br>Subsidiary risk<br>Class<br>Class<br>Subsidiary risk<br>Class<br>Subsidiary risk<br>Facking group<br>Environmental hazards<br>F-E, S-D<br>Special precautions for user<br>Transport in bulk according to  | Other information            |   |
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| UN proper shipping name<br>Transport hazard class(es) ACETONITRILE SOLUTION (Acetonitrile)   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.   |                              |   |
| 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.   |                              |   |
| 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 toNot established.   |                              | ACE I ONITRILE 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.  | • • • • •                    |   |
| 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.  |                              | 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.   | -                            | -   |
| 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.   |                              | 11  |
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| Transport in bulk according to Not established.  |                              | ) -   |
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|  |                              | NOT ESTADIISNEO.  |
| the IBC Code   |                              |   |
|  |                              |   |





# 15. Regulatory information

| US federal regulations                                   | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.<br>One or more components are not listed on TSCA. |                    |          |
|--|--|--------------------|----------|
| TSCA Section 12(b) Export<br>Not regulated.              | Notification (40 CFR 707, Su   | bpt. D)            |          |
| CERCLA Hazardous Substa                                  | nce List (40 CFR 302.4)  |                    |          |
| Acetonitrile (CAS 75-05-8                                | 3)   | Listed.            |          |
| SARA 304 Emergency relea                                 | se notification  |                    |          |
| Not regulated.   |  |                    |          |
|  | ulated Substances (29 CFR 1  | 910.1001-1050)     |          |
| Not listed.  |  |                    |          |
| Superfund Amendments and Re                              | •  | ARA)               |          |
| Hazard categories  | Immediate Hazard - Yes<br>Delayed Hazard - No<br>Fire Hazard - Yes<br>Pressure Hazard - No<br>Reactivity Hazard - No   |                    |          |
| SARA 302 Extremely hazard                                | dous substance   |                    |          |
| Not listed.  |  |                    |          |
| SARA 311/312 Hazardous chemical                          | No   |                    |          |
| SARA 313 (TRI reporting)                                 |  |                    |          |
| Chemical name  |  | CAS number         | % by wt. |
| Acetonitrile   |  | 75-05-8            | 99 - 100 |
| Other federal regulations                                |  |                    |          |
| Clean Air Act (CAA) Sectior                              | n 112 Hazardous Air Pollutan   | ts (HAPs) List     |          |
| Acetonitrile (CAS 75-05-8<br>Clean Air Act (CAA) Section | 3)<br>n 112(r) Accidental Release P  | Prevention (40 CFR | 68.130)  |
| Not regulated.   |  |                    |          |
| Safe Drinking Water Act<br>(SDWA)                        | Not regulated.   |                    |          |
| US state regulations                                     |  |                    |          |
| US - New Jersey RTK - Sub                                | stances: Listed substance  |                    |          |
| Acetonitrile (CAS 75-05-                                 | 3)   |                    |          |

- US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.
- US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.
- (a))
  - Acetonitrile (CAS 75-05-8)
- US. Massachusetts RTK Substance List Acetonitrile (CAS 75-05-8)
- US. New Jersey Worker and Community Right-to-Know Act Acetonitrile (CAS 75-05-8)
- US. Pennsylvania RTK Hazardous Substances Acetonitrile (CAS 75-05-8)

#### US. Pennsylvania Worker and Community Right-to-Know Law

- Acetonitrile (CAS 75-05-8)
- US. Rhode Island RTK

Acetonitrile (CAS 75-05-8)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

| Country(s) or region        | Inventory name  | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                        | No                     |
| Canada                      | Domestic Substances List (DSL)  | No                     |
| Canada                      | Non-Domestic Substances List (NDSL)                                       | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)                | No                     |
| Europe                      | European Inventory of Existing Commercial Chemical<br>Substances (EINECS) | No                     |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                    | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)                  | No                     |
| Korea                       | Existing Chemicals List (ECL)   | No                     |
| New Zealand                 | New Zealand Inventory   | No                     |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)         | No                     |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                             | No                     |

\*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    | 02-17-2016                                     |
|---------------|--|
| Revision date | 02-17-2016                                     |
| Version #     | 02   |
| NFPA ratings  | Health: 3<br>Flammability: 3<br>Instability: 0 |

The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.

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This Safety Data Sheet (SDS) is intended only for use with Chem Service, Inc. products and should not be relied on for use with materials from any other supplier even if the chemical name(s) on the product are identical! Whenever using an SDS for a solution or mixture the user should refer to the SDS for every component of the solution or mixture. Chem Service warrants that this SDS is based upon the most current information available to Chem Service at the time it was last revised. THIS WARRANTY IS EXCLUSIVE, AND CHEM SERVICE, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. This SDS is provided gratis and CHEM SERVICE, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR CONTINGENT DAMAGES.

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