

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/03/2015

Revision date: 16/11/2015

Version: 1.0

DLM-1149

| 1.1. Product identifier   |   |
|---|---|
| Product form  | : Substance   |
| Substance name  | : ATRAZINE (ETHYLAMINE-D5, 98%)                       |
| EC index no   | : 613-068-00-7 (Unlabeled)                            |
| EC no   | : 217-617-8 (Unlabeled)                               |
| CAS No  | : 163165-75-1   |
| Product code  | : DLM-1149  |
| Formula   | : C8D5H9CIN5  |
| Synonyms  | : 2-Chloro-4ethylamino-6isopropylamino-1,3,5-triazine |
| 1.2. Relevant identified uses of the su   | bstance or mixture and uses advised against           |
| 1.2.1. Relevant identified uses   |   |
| Industrial/Professional use spec  | : For professional use only.                          |
| 1.2.2.Uses advised againstNo additional information available   |   |
| 1.3. Details of the supplier of the safet   | ty data sheet   |
| Cambridge Isotope Laboratories, Inc.<br>50 Frontage Road<br>Andover, MA 01810<br>USA<br>USA: 1-800-322-1174 Int: 1-978-749-8000 |   |
|   |   |
|   |   |
| cilsales@isotope.com www.isotope.com  |   |
| cilsales@isotope.com www.isotope.com<br>Emergency telephone number<br>Emergency numbers:<br>Chemtrec: 1-800-424-9300 (24 hours) |   |
| cilsales@isotope.com www.isotope.com Emergency telephone number   |   |

Acute Tox. 4 (Oral)H302Skin Sens. 1H317Aquatic Acute 1H400 (M=10)Aquatic Chronic 1H410

Full text of H-phrases: see section 16

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R22 N; R51/53 Full text of R-phrases: see section 16

#### **GHS-US** classification

Acute Tox. 4 (Oral)H302Skin Sens. 1H317Aquatic Acute 1H400Aquatic Chronic 1H410

#### Adverse physicochemical, human health and environmental effects

No additional information available

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| 2.2. Label elements                    |  |
|--|--|
| Labelling according to Regulation (EC) | No. 1272/2008 [CLP]  |
| Hazard pictograms (CLP)                |  |
|  | GHS07 GHS09  |
| Signal word (CLP)                      | : Warning  |
| Hazard statements (CLP)                | : H302 - Harmful if swallowed<br>H317 - May cause an allergic skin reaction<br>H410 - Very toxic to aquatic life with long lasting effects   |
| Precautionary statements (CLP)         | <ul> <li>P261 - Avoid breathing dust, fume, gas, mist, spray, vapours</li> <li>P264 - Wash Both hands thoroughly after handling</li> <li>P270 - Do no eat, drink or smoke when using this product</li> <li>P272 - Contaminated work clothing should not be allowed out of the workplace</li> <li>P273 - Avoid release to the environment</li> <li>P280 - Wear eye protection, face protection, protective clothing, protective gloves</li> <li>P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor//if you feel unwell</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of water/</li> </ul>  |
| GHS-US labelling                       |  |
| Hazard pictograms (GHS-US)             |  |
| Signal word (GHS-US)                   | GHS07 GHS09<br>: Warning   |
| Hazard statements (GHS-US)             | <ul> <li>H302 - Harmful if swallowed</li> <li>H317 - May cause an allergic skin reaction</li> <li>H400 - Very toxic to aquatic life</li> <li>H410 - Very toxic to aquatic life with long lasting effects</li> </ul>  |
| Precautionary statements (GHS-US)      | <ul> <li>P261 - Avoid breathing dust, fume, gas, mist, spray, vapours<br/>P264 - Wash Both hands thoroughly after handling<br/>P270 - Do no eat, drink or smoke when using this product<br/>P272 - Contaminated work clothing should not be allowed out of the workplace<br/>P273 - Avoid release to the environment<br/>P280 - Wear eye protection, face protection, protective gloves, protective clothing<br/>P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwel<br/>P302+P352 - IF ON SKIN: Wash with plenty of soap and water<br/>P321 - Specific treatment (see Hazard pictograms (CLP) on this label)<br/>P330 - If swallowed, rinse mouth<br/>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention<br/>P362+P364 - Take off contaminated clothing and wash it before reuse<br/>P391 - Collect spillage<br/>P501 - Dispose of contents/container to Comply with applicable regulations.</li> </ul> |

No additional information available

### **SECTION 3: Composition/information on ingredients**

| 3.1. Substances                                     |   |     |   |
|---|---|-----|---|
| Name  | Product identifier  | %   | Classification according to<br>Directive 67/548/EEC |
| ATRAZINE (ETHYLAMINE-D5, 98%)<br>(Main constituent) | (CAS No) 163165-75-1<br>(EC no) 217-617-8 (Unlabeled)<br>(EC index no) 613-068-00-7 (Unlabeled) | 100 | Xn; R22<br>N; R51/53                                |
| Name  | Product identifier  | %   | Classification according to<br>Regulation (EC) No.  |
|   |   |     | 1272/2008 [CLP]                                     |

Full text of R-, H- and EUH-phrases: see section 16

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Name  | Product identifier   | %   | GHS-US classification   |
|---|----------------------|-----|---|
| ATRAZINE (ETHYLAMINE-D5, 98%)<br>(Main constituent) | (CAS No) 163165-75-1 | 100 | Acute Tox. 4 (Oral), H302<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

#### Full text of H-phrases: see section 16

| ptysician.       ptysician.         First-aid measures after skin contact       :       Wash with scap and plonty of water. Consult a physician.         First-aid measures after ingestion       :       Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult physician.         4.2.       Most important symptoms and effects, both acute and delayed         Symptoms/injuries after ingestion       :       May be harmful if inhaled. May cause respiratory tract irritation.         Symptoms/injuries after ingestion       :       May be harmful if absorbed through skin. May cause skin irritation.         Symptoms/injuries after ingestion       :       Harmful if swallowed.         4.3.       Indication of any immediate medical attention and special treatment needed       No additional information available         Stable extinguishing media       :       Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.         5.3.       Advice of firefighting       :       Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.         5.4.       Personal procedures       :       Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.         5.3.       Advice of firefighting       :       Do not enter fire area without proper protective equipment, including respiratory protection         SECTION 6: Accidental release measures       :       Use personal protective equipm   |   |  |
|--|---|--|
| SECTION 4: First alid measures         First-alid measures general       : Move out of dangerous area. Consult a physician and show this safety data sheet.         First-alid measures after inhalation       : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult : physician.         First-aid measures after skin contact       : Wash with soap and plenty of water. Consult a physician.         First-aid measures after skin contact       : Wash with soap and plenty of water. Consult a physician.         First-aid measures after skin contact       : Wash with soap and plenty of water. Consult a physician.         First-aid measures after skin contact       : Wash with a as a procaution.         Symptoms/injuries after inhalation       : May be harmful if halaed. May cause respiratory tract irritation.         Symptoms/injuries after inhalation       : May be harmful if absorbed through skin. May cause skin irritation.         Symptoms/injuries after ingestion       : Harmful if swallowed.         4.3. Indication of any immediate medical attention and special treatment needed         No additional information available       SECTION 5: Firefighting media         Stable oxinguishing media       : Use water spray, alcohol-resistant foam, dry chamical, or carbon dioxide.         5.3. Advice for firefighters       : Do not enter fire area without proper protective equipment, including respiratory protective first area without proper protective equipment, including respiratory protective firstore sciences.   |   |  |
| 4.1       Description of first aid measures         First-aid measures general       :       Move out of dangerous area. Consult a physician and show this safety data sheet.         First-aid measures after skin contact       :       If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult : physician.         First-aid measures after skin contact       :       Wash with scap and plenty of water. Consult a physician.         First-aid measures after eye contact       :       Flush eyes with water as a precaution.         Symptoms/injuries after ingestion       :       Nay be harmful if hinded. May cause respiratory tract initiation.         Symptoms/injuries after skin contact       :       May be harmful if hinded. May cause respiratory tract initiation.         Symptoms/injuries after skin contact       :       May be harmful if hinded. May cause respiratory tract initiation.         Symptoms/injuries after skin contact       :       May be harmful if hinded.         Symptoms/injuries after ingestion       :       Harmful if satilaved.         Symptoms/injuries after ingestion       :       I Harmful if satilaved.         Symptoms/injuries after ingestion       :       Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.         S2.       Special hazards arising from the substance or mixture       No additional information available         S2.       Special  |   |  |
| First-aid measures general       : Move out of dangerous area. Consult a physician and show this safety data sheet.         First-aid measures after indication       : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult.         First-aid measures after skin contact       : Wash with scap and plenty of water. Consult a physician.         First-aid measures after skin contact       : Wash with scap and plenty of water. Consult a physician.         First-aid measures after skin contact       : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult physician.         42. Most important symptoms and effects. both actue and delayed       Symptoms/injuries after ingestion       : May be harmful if absorbed through skin. May cause skin irritation.         Symptoms/injuries after skin contact       : May be harmful if absorbed through skin. May cause skin irritation.       Symptoms/injuries after eigestion         No additional information available       : Causes eye irritation.       Symptoms/injuries after eigestion       : Harmful if swallowed.         5.1 Extinguishing media       : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.       :         5.2 Special hazards arising from the substance or mixture       No additional information available       :         5.3 Advice of frietgithers       :       :       :       :         Friet-sid in data do so. Do not let product enter drains.       :       :   |   |  |
| First-aid measures after inhalation       : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult: physician.         First-aid measures after skin contact       : Wash with scap and plenty of water. Consult a physician.         First-aid measures after skin contact       : Wash with scap and plenty of water. Consult a physician.         First-aid measures after skin contact       : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult physician.         4.2.       Most important symptoms and effects, both acute and delayed         Symptoms/injuries after skin contact       : May be harmful if hahaled. May cause respiratory tract initiation.         Symptoms/injuries after skin contact       : May be harmful if absorbed through skin. May cause skin initiation.         Symptoms/injuries after sin contact       : May be harmful if absorbed through skin. May cause skin initiation.         Symptoms/injuries after sin contact       : May be harmful if absorbed through skin. May cause skin initiation.         Symptoms/injuries after ingestion       : Harmful if swallowed.         4.3.       Indication of any immediate medical attention and special treatment needed         No additional information available       : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.         5.2.       Special hazards arising from the substance or mixture         No additional information available       : Do not enter fire area without proper protectiv  |   |  |
| First-aid measures after skin contact       : Wash with scap and plenty of water. Consult a physician.         First-aid measures after sye contact       : Flush eyes with water as a proceaution.         First-aid measures after sye contact       : Plever by explain youth to an unconscious person. Rinse mouth with water. Consult physician.         4.2. Most Important symptoms and effects, both acute and delayed       Symptoms/injuries after skin contact       : May be harmful if inhaled. May cause respiratory tract irritation.         Symptoms/injuries after skin contact       : May be harmful if absorbed through skin. May cause skin irritation.         Symptoms/injuries after skin contact       : May be harmful if absorbed through skin. May cause skin irritation.         Symptoms/injuries after skin contact       : May be harmful if absorbed through skin. May cause skin irritation.         Symptoms/injuries after skin contact       : May be harmful if absorbed through skin. May cause skin irritation.         Symptoms/injuries after skin contact       : Lause sey eirritation.         Symptoms/injuries after skin contac   | _                                       | : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a   |
| First-aid measures after eye contact       : Fush eyes with water as a precaution.         Sinst-aid measures after ingestion       : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult physician.         4.2.       Most important symptoms and effects, both acute and delayed         Symptoms/injuries after ingestion       : May be harmful if absorbed through skin. May cause skin imitation.         Symptoms/injuries after eye contact       : Causes eye irritation.         Symptoms/injuries after eye contact       : Causes eye irritation.         Symptoms/injuries after eye contact       : Causes eye irritation.         Symptoms/injuries after eye contact       : Harmful if swallowed.         4.3.       Indication of any immediate medical attention and special treatment needed         No additional information available       :         Stable extinguishing media       : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.         5.3.       Advice for firefighters         Protection during fireflighting       : Do not enter fire area without proper protective equipment, including respiratory protection         Stable extinguishing media       : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or Ensure adequate ventilation. Avoid breathing dust.         Stable experimention available       : Sectoron Sectores         Stable experence to ther sections       : Use perso  | First-aid measures after skin contact   |  |
| 4.2. Most important symptoms and effects, both acute and delayed         Symptoms/injuries after inhalation       : May be harmful if inhaled. May cause respiratory tract irritation.         Symptoms/injuries after injestion       : Causes eye irritation.         Symptoms/injuries after injestion       : Lawse eye irritation.         Symptoms/injuries after injestion       : Harmful if absorbed through skin. May cause skin irritation.         Symptoms/injuries after injestion       : Harmful if absorbed through skin. May cause skin irritation.         Symptoms/injuries after injestion       : Harmful if awallowed.         4.3. Indication of any inmediate medical attention and special treatment needed       No additional information available         SECTION 55 Firefighting measures       .         S.1. Extinguishing media       : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.         5.2. Special hazards arising from the substance or mixture       No additional information available         5.3. Advice for firefighters       Protection during firefighter         Protection during firefighters       Protection during firefighters         Protection during firefighters       : Do not enter fire area without proper protective equipment, including respiratory protective encurpment. Avoid breathing dust.         6.1. For non-mergency personnel       : Emergency presonders         Emergency procedures       : Use personal protective equipment. A   |   |  |
| Symptoma/injuries after skin contact       May be harmful if inhaled. May cause respiratory tract irritation.         Symptoms/injuries after skin contact       May be harmful if absorbed through skin. May cause skin irritation.         Symptoms/injuries after skin contact       Causes eye irritation         Symptoms/injuries after skin contact       Causes eye irritation.         Symptoms/injuries after skin contact       Section 2000         Statistic skin symptoms/injuries after skin contact       Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.         Sta   | First-aid measures after ingestion      | : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a   |
| Symptoms/injuries after skin contact : May be harmful if absorbed through skin. May cause skin irritation.<br>Symptoms/injuries after rege contact : Causes eye irritation.<br>Symptoms/injuries after regetom available<br>SECTION 5: Firefighting mealaures<br>5.1. Extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.<br>5.2. Special hazards arising from the substance or mixture<br>No additional information available<br>5.3. Advice for firefighters<br>Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection<br>SECTION 6: Accidental release measures<br>6.1. Personal proceatures : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or<br>Ensure adequate ventilation. Avoid breathing dust.<br>6.1.2. For emergency responders<br>No additional information available<br>6.2. Environmental precautions<br>Prevent further leakage or spillage if safe to do so. Do not let product enter drains.<br>6.3. Methods and material for containment and cleaning up<br>For containment : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for<br>disposal.<br>Methods for cleaning up : Sweep up and shovel. Keep in suitable, closed containers for<br>Madditional information available<br>5.4. Reference to other sections<br>No additional information available<br>5.5. Methods and material for containment and cleaning up<br>For containment : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for<br>disposal.<br>Methods for cleaning up : Sweep up and shovel. Keep in suitable, closed containers for disposal.<br>6.4. Reference to other sections<br>No additional information available<br>5 | 4.2. Most important symptoms and effe   | ects, both acute and delayed   |
| Symptoms/injuries after eye contact       : Causes eye irritation.         Symptoms/injuries after ingestion       : Harmful if swallowed.         4.3.       Indication of any immediate medical attention and special treatment needed         No additional information available         SECTION 5: Firefighting measures         Suitable extinguishing media         Suitable   | Symptoms/injuries after inhalation      | : May be harmful if inhaled. May cause respiratory tract irritation.   |
| Symptoms/injuries after ingestion       : Harmful if swallowed.         43.       Indication of any immediate medical attention and special treatment needed         No additional information available         SECTION 5: Firefighting media         Suitable extinguishing media         Suitable  | Symptoms/injuries after skin contact    | : May be harmful if absorbed through skin. May cause skin irritation.  |
| 4.3. Indication of any immediate medical attention and special treatment needed         No additional information available         SECTION 5: Firefighting media         Suitable extinguishing media         Sui  | Symptoms/injuries after eye contact     | : Causes eye irritation.   |
| No additional information available SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. 5.2. Special hazards arising from the substance or mixture No additional information available 5.3. Advice for firefighters Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures 6.1.1. For non-emergency personnel Emergency procedures C.2. Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. 6.3. Methods and material for containment and cleaning up For containment Protoclaining up For containment Protections No additional information available SECTION 7: Handling and storage 7.1. Procutions for safe handling Additional hazards when processed Final Contact with skin and eyes. Avoid formation of dust and areasols. Provide appropria exhaust ventiliation at places where dust is formed. Normal measures for proventive fire protection. Hygiene measures Final Provent with good industrial hygiene and safety practice. Wash hands befor   | Symptoms/injuries after ingestion       | : Harmful if swallowed.  |
| SECTION 5: Firefighting measures         5.1. Extinguishing media         Suitable extinguishing media         Suitable extinguishing media         Suitable extinguishing media         Special hazards arising from the substance or mixture         No additional information available         5.3. Advice for firefighters         Protection during firefighting         : Do not enter fire area without proper protective equipment, including respiratory protection         SECTION 6: Accidental release measures         6.1. Personal precautions, protective equipment and emergency procedures         6.1.1. For one-emergency personnel         Emergency procedures         : Use personal protective equipment. Avoid bust formation. Avoid breathing vapors, mist or<br>Ensure adequate ventilation. Avoid breathing dust.         6.1.2. For emergency responders         No additional information available         6.2. Environmental precautions         Prevent further leakage or spillage if safe to do so. Do not let product enter drains.         6.3. Methods and material for containment and cleaning up         For containment       : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.         6.4. Reference to other sections       No additional information available         SECTION 7: Handling and Storage       : Avoid contact with skin and eyes. Avoid formation of du  | 4.3. Indication of any immediate medic  | al attention and special treatment needed  |
| 5.1.       Extinguishing media       : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.         5.2.       Special hazards arising from the substance or mixture         No additional information available         5.3.       Advice for firefighters         Protection during firefighting       : Do not enter fire area without proper protective equipment, including respiratory protection         SECTION 6: Accidental release measures       6.1.         6.1.       For non-emergency personnel         Emergency procedures       : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or Ensure adequate ventilation. Avoid breathing dust.         6.1.2.       For emergency responders         No additional information available       : Use personal protective equipment. Avoid breathing dust.         6.2.       Environmental precautions         Prevent further leakage or spillage if safe to do so. D on tel product enter drains.         6.3.       Methods and material for containment and cleaning up         For containment       : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.         6.4.       Reference to other sections         No additional information available       : Sweep up and shovel. Keep in suitable, closed containers for disposal.         6.4.       Reference to other sections         No additio  | No additional information available     |  |
| Suitable extinguishing media       : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.         5.2.       Special hazards arising from the substance or mixture         No additional information available       5.3.         5.3.       Advice for firefighters         Protection during firefighting       : Do not enter fire area without proper protective equipment, including respiratory protection         SECTION 6: Accidental release measures       6.1.         6.1.       Personal precautions, protective equipment and emergency procedures         6.1.1.       For non-emergency personnel         Emergency procedures       : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or Ensure adequate ventilation. Avoid breathing dust.         6.1.2.       For emergency responders         No additional information available       5.3.         6.2.       Environmental precautions         Prevent further leakage or spillage if safe to do so. Do not let product enter drains.         6.3.       Methods and material for containment and cleaning up         For containment       : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.         6.4.       Reference to other sections         No additional information available       Suspecial         SECTION 7: Handling and Storage       : Avoid contact with skin a   | SECTION 5: Firefighting measures        |  |
| 5.2.       Special hazards arising from the substance or mixture         No additional information available       5.3.         5.3.       Advice for firefighters         Protection during firefighting       : Do not enter fire area without proper protective equipment, including respiratory protection         SECTION 6: Accidental release measures       6.1.         6.1.       Personal precautions, protective equipment and emergency procedures         6.1.1.       For non-emergency personnel         Emergency procedures       : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or Ensure adequate ventilation. Avoid breathing dust.         6.1.2.       For emergency responders         No additional information available       6.2.         6.2.       Environmental precautions         Prevent further leakage or spillage if safe to do so. Do not let product enter drains.         6.3.       Methods and material for containment and cleaning up         For containment       : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.         6.4.       Reference to other sections         No additional information available       Section 7: Handling and storage         7.1.       Precautions for safe handling         Additional hazards when processed       : Avoid contact with skin and eyes. Avoid formation of dust and aerosols.   | 5.1. Extinguishing media                |  |
| No additional information available 5.3. Advice for firefighters Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures 6.1. For one-emergency personnel Emergency procedures : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or Ensure adequate ventilation. Avoid breathing dust. 6.1. For emergency responders No additional information available 6.2. Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. 6.3. Methods and material for containment and cleaning up For containment Exercise to other sections No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling Additional hazards when processed Exercise. Exercise to even processe Exercise. Exercise to a sub-spice. Exercise to the sections Exercise to a sub-spice. Exercise to the sections Exer   | Suitable extinguishing media            | : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.  |
| 5.3.       Advice for firefighters         Protection during firefighting       : Do not enter fire area without proper protective equipment, including respiratory protection         SECTION 6: Accidental release measures       6.1.         6.1.       Personal precautions, protective equipment and emergency procedures         6.1.1.       For non-emergency personnel         Emergency procedures       : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or Ensure adequate ventilation. Avoid breathing dust.         6.1.2.       For emergency responders         No additional information available       .         6.2.       Environmental precautions         Prevent further leakage or spillage if safe to do so. Do not let product enter drains.         6.3.       Methods and material for containment and cleaning up         For containment       : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.         6.4.       Reference to other sections         No additional information available       SECTION 7: Handling and storage         7.1.       Precautions for safe handling         Additional hazards when processed       : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropria exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.         Hygiene measures       : Handle in acco  | 5.2. Special hazards arising from the s | ubstance or mixture  |
| Protection during firefighting       : Do not enter fire area without proper protective equipment, including respiratory protection         SECTION 6: Accidental release measures         6.1. Personal precautions, protective equipment and emergency procedures         6.1.1. For non-emergency personnel         Emergency procedures       : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or Ensure adequate ventilation. Avoid breathing dust.         6.1.2. For emergency responders         No additional information available         6.2. Environmental precautions         Prevent further leakage or spillage if safe to do so. Do not let product enter drains.         6.3. Methods and material for containment and cleaning up         For containment       : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.         6.4. Reference to other sections         No additional information available         SECTION 7: Handling and storage         7.1. Precautions for safe handling         Additional hazards when processed       : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropria exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety practice. Wash hands befor   | No additional information available     |  |
| SECTION 6: Accidental release measures         6.1.       Personal precautions, protective equipment and emergency procedures         6.1.1.       For non-emergency personnel         Emergency procedures       : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or Ensure adequate ventilation. Avoid breathing dust.         6.1.2.       For emergency responders         No additional information available       6.2.         6.2.       Environmental precautions         Prevent further leakage or spillage if safe to do so. Do not let product enter drains.         6.3.       Methods and material for containment and cleaning up         For containment       : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.         6.4.       Reference to other sections         No additional information available       Sections         SECTION 7: Handling and storage       : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropria exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety practice. Wash hands befor  | 5.3. Advice for firefighters            |  |
| 6.1.       Personal precautions, protective equipment and emergency procedures         6.1.1.       For non-emergency personnel         Emergency procedures       : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or Ensure adequate ventilation. Avoid breathing dust.         6.1.2.       For emergency responders         No additional information available       .         6.2.       Environmental precautions         Prevent further leakage or spillage if safe to do so. Do not let product enter drains.         6.3.       Methods and material for containment and cleaning up         For containment       : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.         6.4.       Reference to other sections         No additional information available       .         SECTION 7: Handling and storage       : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropria exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety practice. Wash hands befor   | Protection during firefighting          | : Do not enter fire area without proper protective equipment, including respiratory protection.  |
| 6.1.1. For non-emergency personnel       : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or Ensure adequate ventilation. Avoid breathing dust.         6.1.2. For emergency responders       No additional information available         6.2. Environmental precautions       Prevent further leakage or spillage if safe to do so. Do not let product enter drains.         6.3. Methods and material for containment and cleaning up       For containment         For containment       : Prick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.         6.4. Reference to other sections       No additional information available         SECTION 7: Handling and storage       : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropria exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety practice. Wash hands befor  | SECTION 6: Accidental release mea       | asures   |
| Emergency procedures       : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or Ensure adequate ventilation. Avoid breathing dust.         6.1.2. For emergency responders       No additional information available         6.2. Environmental precautions       Prevent further leakage or spillage if safe to do so. Do not let product enter drains.         6.3. Methods and material for containment and cleaning up       For containment         For containment       : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.         Methods for cleaning up       : Sweep up and shovel. Keep in suitable, closed containers for disposal.         6.4. Reference to other sections       No additional information available         SECTION 7: Handling and storage       : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropria exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety practice. Wash hands befor  | 6.1. Personal precautions, protective e | quipment and emergency procedures  |
| 6.1.2. For emergency responders         No additional information available         6.2. Environmental precautions         Prevent further leakage or spillage if safe to do so. Do not let product enter drains.         6.3. Methods and material for containment and cleaning up         For containment       : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.         Methods for cleaning up       : Sweep up and shovel. Keep in suitable, closed containers for disposal.         6.4. Reference to other sections         No additional information available         SECTION 7: Handling and storage         7.1. Precautions for safe handling         Additional hazards when processed         : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropria exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety practice. Wash hands befor  | 6.1.1. For non-emergency personnel      |  |
| No additional information available         6.2.       Environmental precautions         Prevent further leakage or spillage if safe to do so. Do not let product enter drains.         6.3.       Methods and material for containment and cleaning up         For containment       : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.         Methods for cleaning up       : Sweep up and shovel. Keep in suitable, closed containers for disposal.         6.4.       Reference to other sections         No additional information available       SECTION 7: Handling and storage         7.1.       Precautions for safe handling         Additional hazards when processed       : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropria exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety practice. Wash hands befor  | Emergency procedures                    | : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas<br>Ensure adequate ventilation. Avoid breathing dust. |
| 6.2.       Environmental precautions         Prevent further leakage or spillage if safe to do so. Do not let product enter drains.         6.3.       Methods and material for containment and cleaning up         For containment       : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.         Methods for cleaning up       : Sweep up and shovel. Keep in suitable, closed containers for disposal.         6.4.       Reference to other sections         No additional information available       SECTION 7: Handling and storage         7.1.       Precautions for safe handling         Additional hazards when processed       : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropria exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety practice. Wash hands before   | 6.1.2. For emergency responders         |  |
| Prevent further leakage or spillage if safe to do so. Do not let product enter drains.         6.3.       Methods and material for containment and cleaning up         For containment       : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.         Methods for cleaning up       : Sweep up and shovel. Keep in suitable, closed containers for disposal.         6.4.       Reference to other sections         No additional information available       SECTION 7: Handling and storage         7.1.       Precautions for safe handling         Additional hazards when processed       : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropria exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety practice. Wash hands beform  | No additional information available     |  |
| Prevent further leakage or spillage if safe to do so. Do not let product enter drains.         6.3.       Methods and material for containment and cleaning up         For containment       : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.         Methods for cleaning up       : Sweep up and shovel. Keep in suitable, closed containers for disposal.         6.4.       Reference to other sections         No additional information available       SECTION 7: Handling and storage         7.1.       Precautions for safe handling         Additional hazards when processed       : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropria exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety practice. Wash hands beform  | 6.2. Environmental precautions          |  |
| For containment       : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.         Methods for cleaning up       : Sweep up and shovel. Keep in suitable, closed containers for disposal.         6.4.       Reference to other sections         No additional information available       : Sections         SECTION 7: Handling and storage       : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropria exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety practice. Wash hands before   |   | so. Do not let product enter drains.   |
| For containment       : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.         Methods for cleaning up       : Sweep up and shovel. Keep in suitable, closed containers for disposal.         6.4.       Reference to other sections         No additional information available       : Sections         SECTION 7: Handling and storage       : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropria exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety practice. Wash hands before   | 6.3. Methods and material for containn  | nent and cleaning up   |
| 6.4. Reference to other sections         No additional information available         SECTION 7: Handling and storage         7.1. Precautions for safe handling         Additional hazards when processed       : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropria exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety practice. Wash hands before  |   | : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for  |
| No additional information available         SECTION 7: Handling and storage         7.1. Precautions for safe handling         Additional hazards when processed       : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropria exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety practice. Wash hands before   | Methods for cleaning up                 | : Sweep up and shovel. Keep in suitable, closed containers for disposal.   |
| SECTION 7: Handling and storage         7.1.       Precautions for safe handling         Additional hazards when processed       : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropria exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety practice. Wash hands before   | 6.4. Reference to other sections        |  |
| 7.1.       Precautions for safe handling         Additional hazards when processed       : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropria exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety practice. Wash hands before   | No additional information available     |  |
| Additional hazards when processed       : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropria<br>exhaust ventilation at places where dust is formed. Normal measures for preventive fire<br>protection.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety practice. Wash hands before  | SECTION 7: Handling and storage         |  |
| exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety practice. Wash hands before  | 7.1. Precautions for safe handling      |  |
|  | Additional hazards when processed       |  |
| bleaks and at the end of workday.  | Hygiene measures                        | : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.                         |

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| 7.2.  | Conditions for safe s        | storage, including any incompatibilities |   |
|---|------------------------------|--|---|
| Storage conditions : Store at room temperature away |                              | : Store at room temperature away fro     | om light and moisture.  |
| 7.3.  | Specific end use(s)          |  |   |
| No add  | ditional information availal | ble                                      |   |
| SEC   | TION 8: Exposure c           | ontrols/personal protection              |   |
| 8.1.  | Control parameters           |  |   |
| ATR   | AZINE (ETHYLAMINE-D          | 5, 98%) (163165-75-1)                    |   |
| Italy   | - Portugal - USA ACGIH       | ACGIH TWA (mg/m³)                        | 5.0000000000 mg/m <sup>3</sup> Central Nervous System<br>convulsion. Not classifiable as a human carcinogen |
| 8.2.  | Exposure controls            |  |   |
| Persor  | nal protective equipment     | : Gloves. Protective clothing. Self-co   | ontained breathing apparatus. Protective goggles.   |
|   |                              |  |   |
|   |                              |  |   |

| Hand protection          | : Wear suitable protective clothing and gloves.   |
|--------------------------|---|
| Eye protection           | : Wear safety glasses with side shields (or goggles) and a face shield. Chemical goggles or safety glasses. |
| Skin and body protection | : Wear suitable protective clothing.  |
| Respiratory protection   | : When appropriate, use NIOSH/CEN approved respirator.  |

#### **SECTION 9: Physical and chemical properties** Information on basic physical and chemical properties 9.1.

| The properties listed below are for the solvent, the main com | ponent of this mixture.       |
|---|-------------------------------|
| Physical state  | : Solid                       |
| Appearance  | : Solid.                      |
| Molecular mass  | : 220.71 g/mol (Labeled)      |
| Colour  | : Light-Brown.                |
| Odour   | : No data available           |
| Odour threshold   | : No data available           |
| pH  | : No data available           |
| Relative evaporation rate (butylacetate=1)                    | : No data available           |
| Melting point   | : 175 °C                      |
| Freezing point  | : No data available           |
| Boiling point   | : 200 °C                      |
| Flash point   | : No data available           |
| Self ignition temperature                                     | : No data available           |
| Decomposition temperature                                     | : No data available           |
| Flammability (solid, gas)                                     | : No data available           |
| Vapour pressure   | : No data available           |
| Relative vapour density at 20 °C                              | : No data available           |
| Relative density  | : No data available           |
| Solubility  | : Water: 7 mg/100 mL in water |
| Log Pow   | : 2.61 5                      |
| Log Kow   | : No data available           |
| Viscosity, kinematic  | : No data available           |
| Viscosity, dynamic  | : No data available           |
| Explosive properties  | : No data available           |
| Oxidising properties  | : No data available           |
| Explosive limits  | : No data available           |
| 9.2. Other information  |                               |
| No additional information available                           |                               |

### SECTION 10: Stability and reactivity 10.1. Reactivity

No additional information available

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| 10.2. Chemical stability                               |  |
|--|--|
| Stable if stored under recommended conditions.         |  |
| 10.3. Possibility of hazardous reactions               |  |
| No additional information available                    |  |
|  |  |
| 10.4. Conditions to avoid                              |  |
| Not available.   |  |
| 10.5. Incompatible materials                           |  |
| Strong acids, Strong bases, Strong oxidizing age       | nts.   |
| 10.6. Hazardous decomposition products                 |  |
| No additional information available                    |  |
| SECTION 11: Toxicological informati                    | on   |
|  |  |
| 11.1. Information on toxicological effects             | · Llawsful if availance d  |
| Acute toxicity   | : Harmful if swallowed.  |
| ATRAZINE (ETHYLAMINE-D5, 98%) (163165-                 |  |
| LD50 oral rat  | 672 mg/kg  |
| LD50 dermal rabbit                                     | 7500 mg/kg   |
| LC50 inhalation rat (mg/l)                             | 5200 mg/m <sup>3</sup> 4 h   |
| ATE (oral)   | 672.000 mg/kg bodyweight   |
| ATE (dermal)   | 7500.000 mg/kg bodyweight  |
| ATE (vapours)  | 5.200 mg/l/4h  |
| ATE (dust,mist)  | 5.200 mg/l/4h  |
| Skin corrosion/irritation                              | : Not classified   |
|  | Skin - Mammal - Mild skin irritation   |
| Serious eye damage/irritation                          | : Not classified   |
|  | No data available  |
| Respiratory or skin sensitisation                      | : May cause allergic skin reaction.  |
|  | No data available  |
| Germ cell mutagenicity                                 | : Laboratory experiments have shown mutagenic effects.   |
| Carcinogenicity  | <ul> <li>This product is or contains a component that is not classifiable as to its carcinogenicity on its<br/>IARC, ACGIH, NTP, or EPA classification.</li> </ul> |
| Reproductive toxicity                                  | : Not available  |
| Specific target organ toxicity (single exposure)       | : Not classified   |
|  | No data available  |
| Specific target organ toxicity (repeated               | : Not classified   |
| exposure)  | No data available  |
| Assistion boyond                                       | : Not classified   |
| Aspiration hazard                                      |  |
| Potential Adverse human health effects and<br>symptoms | : To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.  |
| IARC group   | : 3  |
| Symptoms/injuries after inhalation                     | : May be harmful if inhaled. May cause respiratory tract irritation.   |
| Symptoms/injuries after skin contact                   | : May be harmful if absorbed through skin. May cause skin irritation.  |
| Symptoms/injuries after eye contact                    | : Causes eye irritation.   |
| Symptoms/injuries after ingestion                      | : Harmful if swallowed.  |
|  |  |

| SECTION 12: Ecological information                         |  |  |
|--|--|--|
| 12.1. Toxicity   |  |  |
| 5-1)   |  |  |
| 0.043 mg/l Desmodesmus subspicatus (green algae) - 72 h    |  |  |
| 0.043 mg/l - 72 h, Desmodesmus subspicatus (green algae) - |  |  |
| 1.15 mg/l Pseudokirchneriella subcapitata - 60 h           |  |  |
| 2 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h          |  |  |
|  |  |  |

| 12.2.     | Persistence and degradability       |                |     |
|-----------|-------------------------------------|----------------|-----|
| ATRAZ     | INE (ETHYLAMINE-D5, 98%) (163165-75 | 5-1)           |     |
| Persiste  | ence and degradability              | Not available. |     |
| 17/11/201 | 5                                   | EN (English)   | 5/9 |

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| 2.3. Bioaccumulative potential                    |  |  |  |
|---|--|--|--|
| ATRAZINE (ETHYLAMINE-D5, 98%) (163165-7           | ATRAZINE (ETHYLAMINE-D5, 98%) (163165-75-1)  |  |  |
| Log Pow   | 2.61 5   |  |  |
| Bioaccumulative potential                         | Tilapia sparrmanii- 4 weeks Bioconcentration factor (BCF): 6.1.  |  |  |
| 12.4. Mobility in soil                            |  |  |  |
| ATRAZINE (ETHYLAMINE-D5, 98%) (163165-7           | 75-1)  |  |  |
| Ecology - soil                                    | Not available.   |  |  |
| 12.5. Results of PBT and vPvB assessmen           | t  |  |  |
| No additional information available               |  |  |  |
| 12.6. Other adverse effects                       |  |  |  |
| Other adverse effects                             | : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal<br>Very toxic to aquatic organisms. |  |  |
| SECTION 13: Disposal consideration                | S  |  |  |
| 13.1. Waste treatment methods                     |  |  |  |
| Regional legislation (waste)                      | : Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.     |  |  |
| Waste disposal recommendations                    | : Dispose in a safe manner in accordance with local/national regulations.  |  |  |
| <b>SECTION 14: Transport information</b>          |  |  |  |
| In accordance with ADR / RID / ADNR / IMDG / IC   | CAO / IATA   |  |  |
| 14.1. UN number                                   |  |  |  |
| UN-No.(DOT)                                       | : UN3077   |  |  |
| 14.2. UN proper shipping name                     |  |  |  |
| DOT Proper Shipping Name                          | : Environmentally hazardous substances, solid, n.o.s.  |  |  |
| Department of Transportation (DOT) Hazard Classes | : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140  |  |  |
| Hazard labels (DOT)                               | : 9 - Class 9 (Miscellaneous dangerous materials)  |  |  |
| DOT O with a la                                   | : G - Identifies PSN requiring a technical name  |  |  |
| DOT Symbols                                       |  |  |  |

# ATRAZINE (ETHYLAMINE-D5, 98%) DLM-1149 Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, Mar

| DOT Special Provisions (49 CFR 172.102)  | : 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping   |
|--|---|
|  | description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for   |
|  | solid materials, special provision B54 applies.   |
|  | 146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in   |
|  | 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is   |
|  | designated as environmentally hazardous by the Competent Authority of the country of origin,  |
|  | transit or destination.   |
|  | 335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s," UN3077 and may be transported under this entry, provided there is no free liquid visible at the |
|  | time the material is loaded or at the time the packaging or transport unit is closed. Each transpo<br>unit must be leakproof when used as bulk packaging.   |
|  | A112 - Notwithstanding the quantity limits shown in Column (9A) and (9B) for this entry, the  |
|  | following IBCs are authorized for transportation aboard passenger and cargo-only aircraft. Each IBC may not exceed a maximum net quantity of 1,000 kg:  |
|  | a. Metal: 11A, 11B, 11N, 21A, 21B and 21N   |
|  | b. Rigid plastics: 11H1, 11H2, 21H1 and 21H2  |
|  | c. Composite with plastic inner receptacle: 11HZ1, 11HZ2, 21HZ1 and 21HZ2   |
|  | d. Fiberboard: 11G  |
|  | e. Wooden: 11C, 11D and 11F (with inner liners)   |
|  | f. Flexible: 13H2, 13H3, 13H4, 13H5, 13L2, 13L3, 13L4, 13M1 and 13M2 (flexible IBCs must be<br>sift-proof and water resistant or must be fitted with a sift-proof and water resistant liner).   |
|  | B54 - Open-top, sift-proof rail cars are also authorized.   |
|  | IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics   |
|  | (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3,   |
|  | 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).<br>IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and  |
|  | water-resistant liner.  |
|  | N20 - A 5M1 multi-wall paper bag is authorized if transported in a closed transport vehicle.<br>T1 - 1.5 178.274(d)(2) Normal   |
|  | TP33 - The portable tank instruction assigned for this substance applies for granular and   |
|  | powdered solids and for solids which are filled and discharged at temperatures above their<br>melting point which are cooled and transported as a solid mass. Solid substances transported o  |
|  | offered for transport above their melting point are authorized for transportation in portable tanks   |
|  | conforming to the provisions of portable tank instruction T4 for solid substances of packing grou   |
|  | III or T7 for solid substances of packing group II, unless a tank with more stringent requirements  |
|  | for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or   |
|  | bottom outlets are assigned in which case the more stringent tank instruction and special   |
|  | provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in   |
|  | accordance with the applicable requirements of this subchapter.   |
| OT Packaging Exceptions (49 CFR 173.xxx) | : 155   |
|  |   |
| OT Packaging Non Bulk (49 CFR 173.xxx)   | : 213   |
| OT Packaging Bulk (49 CFR 173.xxx)       | : 240   |
| larine pollutant                         | : Yes   |
|  | ¥.  |
|  |   |
|  | $\checkmark$  |
| 4.3. Additional information              |   |

| 14.3. Additional information              |   |
|---|---|
| Other information                         | : No supplementary information available.             |
| Special transport precautions             | : DOT: Not dangerous goods.                           |
| Overland transport                        |   |
| Packing group (ADR)                       | : III   |
| Class (ADR)                               | : 9 - Miscellaneous dangerous substances and articles |
| Hazard identification number (Kemler No.) | : 90  |
| Classification code (ADR)                 | : M7  |
| Danger labels (ADR)                       | : 9 - Miscellaneous dangerous substances and articles |
|   |   |

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Orange plates  | 90<br>3077   |
|--|--|
| Tunnel restriction code  | : E  |
| Limited quantities (ADR)   | 5kg  |
| EAC code   | : 2Z   |
| Excepted quantities (ADR)  | : E1   |
| Transport by sea   |  |
| DOT Vessel Stowage Location                                      | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.                                    |
| MFAG-No  | : 171  |
| Air transport  |  |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : No limit   |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)     | : No limit   |
| Civil Aeronautics Law  | : Miscellaneous dangerous substances & articles(Hazardous materials notice Appended Table 1<br>Article 194 of the Enforcement Regulations) |
| 14.4. Environmental hazards                                      |  |
| Dangerous for the environment                                    |  |
| Other information  | : No supplementary information available.  |
| 14.5. Special precautions for user                               |  |
| Special transport precautions                                    | : DOT: Not dangerous goods.  |

#### 14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

| SECTION 15: Regulatory information |   |  |
|------------------------------------|---|--|
| 15.1. US Federal regulations       |   |  |
|                                    | ATRAZINE (ETHYLAMINE-D5, 98%) (163165-75-1) |  |
|                                    | SARA Section 311/312 Hazard Classes         | Immediate (acute) health hazard<br>Delayed (chronic) health hazard |

### 15.2. International regulations

### CANADA

| ATRAZINE (ETHYLAMINE-D5, 98%) (163165-75-1)                     |  |
|---|--|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. |  |

### 15.2.1. National regulations

No additional information available

### 15.3. US State regulations

| ATRAZINE (ETHYLAMINE-D5, 98%)(163165-75-1) |   |
|--|---|
| State or local regulations                 | U.S Massachusetts - Right To Know List<br>U.S Pennsylvania - RTK (Right to Know) List<br>U.S New Jersey - Right to Know Hazardous Substance List<br>This product does not contain any chemicals known to State of California to cause cancer,<br>birth defects, or any other reproductive harm. |

:

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### **SECTION 16: Other information**

```
Other information
```

This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

#### Full text of R-, H- and EUH-phrases::

| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4  |
|---------------------|--|
| Aquatic Acute 1     | Hazardous to the aquatic environment — AcuteHazard, Category 1                             |
| Aquatic Chronic 1   | Hazardous to the aquatic environment — Chronic Hazard, Category 1                          |
| Skin Sens. 1        | Sensitisation — Skin, category 1   |
| H302                | Harmful if swallowed   |
| H317                | May cause an allergic skin reaction  |
| H400                | Very toxic to aquatic life   |
| H410                | Very toxic to aquatic life with long lasting effects                                       |
| R22                 | Harmful if swallowed   |
| R51/53              | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| N                   | Dangerous for the environment  |
| Xn                  | Harmful  |
|                     |  |

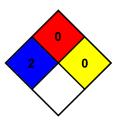
NFPA health hazard

NFPA fire hazard

NFPA reactivity

## 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. 0 - Materials that will not burn.

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



### HMIS III Rating

| Health       | : 2 Moderate Hazard - Temporary or minor injury may occur |
|--------------|---|
| Flammability | : 0 Minimal Hazard  |
| Physical     | : 0 Minimal Hazard  |

#### **CIL Mixture SDS**

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product