

## ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

| 1.1 Product identifier                   |  |
|--|--|
| Product Name                             | [1,1':4',1":4",1"'-Quaterphenyl]-4,4"'-diamine                               |
| Synonyms                                 | QPDA, 4-[4-[4-(4-Aminophenyl)phenyl]phenyl]aniline, p,p'-Diaminoquaterphenyl |
| Chemical Name                            | [1,1':4',1":4",1"'-Quaterphenyl]-4,4"'-diamine                               |
| Chemical Formula                         | C24H20N2   |
| CAS No.                                  | 53693-67-7   |
| EC No.                                   | Not available.   |
| Index No.                                | Not available.   |
| REACH Registration No.                   | Not applicable.  |
|  | bstance or mixture and uses advised against                                  |
| Identified Use(s)                        | PC21 Laboratory chemicals, Research and development use only                 |
|  |  |
| 1.3 Details of the supplier of the safet | y data sheet   |
| Company Identification                   | Ossila Limited   |
| Address of Supplier                      | Solpro Business Park   |
|  | Windsor Street   |
|  | Sheffield  |
| Postal code                              | S4 7WB, UK   |
| Telephone:                               | +441142999180  |
| E-mail                                   | info@ossila.com  |
| Office hours                             | 08:00 - 17:00  |
| 1.4 Emergency telephone number           |  |
| Emergency Phone #                        | +44 (0) 20 3885 0382 (CHEMTREC)  |
|  |  |

| Other Regions               | Emergency Phone Number (CHEMTREC) |  |
|-----------------------------|-----------------------------------|--|
| Europe, Middle East, Africa | +44 20 3885 0382                  |  |
| North America               | +1 703 527 3887                   |  |
| Central America             | +52 55 8526 4930                  |  |
| South America               | +55 11 4349 1359                  |  |
| Asia, India, and Oceania    | +65 3163 8374                     |  |

### SECTION 2: HAZARDS IDENTIFICATION

| 2.1 Classification of the substance or<br>Regulation (EC) No. 1272/2008 (CLP) | <b>mixture</b><br>Acute Tox. 4: Harmful if swallowed.<br>Acute Tox. 4: Harmful in contact with skin.<br>Acute Tox. 4: Harmful if inhaled<br>Muta. 2: Suspected of causing genetic defects<br>Carc. 1A: May cause cancer   |
|---|---|
| 2.2 Label elements  |   |
| Product Name  | According to Regulation (EC) No. 1272/2008 (CLP)<br>[1,1':4',1":4",1"-Quaterphenyl]-4,4"'-diamine   |
| Hazard Pictogram(s)   | GHS07 GHS08   |
| Signal Word(s)  | Danger  |
| Hazard Statement(s)   | H302+H312+H332: Harmful if swallowed, in contact with skin or if inhaled<br>H341: Suspected of causing genetic defects<br>H350: May cause cancer  |
| Precautionary Statement(s)  | <ul> <li>P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.</li> <li>P302 + P352 + P312: IF ON SKIN: Wash with plenty of water. Call a POISON CENTER or doctor if you feel unwell.</li> <li>P304 + P340 + P312: If INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.</li> <li>P318: If exposed or concerned: Get medical advice/attention.</li> <li>P337 + P317: If eye irritation persists: Get medical advice/attention.</li> </ul> |



### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. **2.4 Additional Information** 

Not applicable.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous ingredient(s)       CAS No.       EC No.       %WW       Hazard Statement(s)         (1,1'4,1'*,1'*,1'*-Quaterphenyl):       S3893-67-7       Not available.       <100       Acute Tox. 4 H302         (1,1'4,1'*,1'*,1'*-Quaterphenyl):       S3893-67-7       Not available.       <100       Acute Tox. 4 H302         Acute Tox. 4 H312       Acute Tox. 4 H312       Acute Tox. 4 H312       Acute Tox. 4 H312         Acute Tox. 4 H330       Muta. 2 H341       Carc. 1 A H350       Not applicable.         SECTION 4: FIRST AID MEASURES         4.1 Description of first aid measures         General Advice         First aiders should ensure they have taken adequate steps to protect themselves from exposure (see Section 8 for recommended personal protection equipment)         Stort to first aid measures         Section 8 for recommended personal protection equipment)         Stort to first aid measures         Section 8 for recommended personal protection equipment)         Stort to first aiders should ensure they have taken adequate steps to protect themselves         First aiders should ensure they have taken adequate steps to protect themselves         Not material measures         Section 8 for measures         Section 8 for recommende   | 3.1 Substances                    |            |  |                     |  |
|--|-----------------------------------|------------|--|---------------------|--|
| 4.4"-diamine       Acute Tox. 4 H322<br>Acute Tox. 4 H322<br>Muta. 2 H341<br>Carc. 1A H350         3.2 Mixtures<br>Not applicable.       Section 4: FIRST AID MEASURES         4.1 Description of first aid measures<br>General Advice       First aiders should ensure they have taken adequate steps to protect themselves<br>from exposure (see Section 8 for recommended personal protection equipment)<br>Show this safely data sheet to the door in attendance.         Inhalation       Remove person to fresh air and keep comfortable for breathing. Get medical<br>advice/attention if you feel unwell.         Skin Contact       Rinse skin with water. If skin inflation occurs, get medical advice/attention.         Eye Contact       Rinse skin with water. If skin inflation occurs, get medical advice/attention in you feel unwell.         4.2 Most important symptoms and effects, both acute and delayed.       Most important symptoms and effects, both acute and delayed, are included on<br>labelling (Section 2.2) and in Section 11.         4.3 Indication of any immediate<br>Musicipal Extinguishing media       As appropriate for surrounding fire.         5.1 Extinguishing media       As appropriate for surrounding fire.         5.2 Special hazards arbsing from the substance or mixture<br>Carbon oxides<br>Nitrogen oxides (NOx)       Section 4.2 Section 5.3 Advice for firefighters         5.1 Extinguish  | Hazardous ingredient(s)           | CAS No.    |  |                     |  |
| Acute Tox, 4 H322           Muta, 2 H341           Carc, 1A H320           SECTION 4: FIRST AID MEASURES           4.1 Description of first aid measures           General Advice           First aiders should ensure they have taken adequate steps to protect themselves<br>from exposure (see Section 8 for recommended personal protection equipment)           Shin Contact           Rankove person to fresh air and keep comfortable for breathing. Get medical<br>advice/attention in you feel unwell.           Skin Contact           Rinse skin with water. If skin initiation occurs, get medical advice/attention.<br>Eye Contact           Rinse exin with water. If skin initiation occurs, get medical advice/attention in<br>advice/attention in you feel unwell.           4.2 Most important symptoms and effects, both acute and delayed<br>Most important symptoms and effects, both acute and delayed.<br>Treat symptomatically.           SECTION 5: FIREFIGHTING MEASURES           5.1 Extinguishing media<br>Suitable Extinguishing media<br>As appropriate for surrounding fire.<br>Unsuitable extinguishing media<br>Suitable adequate ventilated suitable forecurve adelayed veno  | [1,1':4',1":4",1"'-Quaterphenyl]- | 53693-67-7 | Not available.                                 | ≤ 100               |  |
| Muta. 2 Hixtures         Muta. 2 Hixtures           Not applicable.         SECTION 4: FIRST AID MEASURES           4.1 Description of first aid measures         First aiders should ensure they have taken adequate steps to protect themselves from exposure (see Section 8 for recommended personal protection equipment)           Shain Contact         Remove person to fresh air and keep comfortable for breakting. Get medical advice/attention.           Skin Contact         Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.           Ingestion         Rinse out mouth with water. Get medical advice/attention.           2.2 Most important symptoms and effects, both acute and delayed         Most important symptoms and effects, both acute and delayed.           4.2 Most important symptoms and effects is portant symptoms and effects. both acute and delayed.         As appropriate for surrounding fire.           4.3 Indication of any immediate medical attention and special treatment needed Treat symptoms and effects hor oxides (NCX)         Section N.2           5.1 Stringuishing media         As appropriate for surrounding fire.           5.2 Special hazards anising from the substance or mixture         Carbon coxides (NCX)           Fire fighters         Fire fighters Should advice and personal protective equipment recommendations (as per section 8). Provide adequate ventilation.           6.2 Environmental precautions, protective equipment and emergency procedures.         Follow safe handing advice and person   | 4,4'''-diamine                    |            |  |                     |  |
| 2.2 Mixtures<br>Not applicable.       Carc. 1A H350         3.2 Mixtures<br>Not applicable.       Carc. 1A H350         3.2 Mixtures<br>Not applicable.       Section 4: FIRST AID MEASURES         4.1 Description of first aid measures<br>General Advice       First aiders should ensure they have taken adequate steps to protect themselves<br>from exposure (see Section 8 for recommended personal protection equipment)<br>Show this safety data sheet to the doctor in attendance.         Inhalation       Remove person to fresh air and keep comfortable for breathing. Get medical<br>advice/attention if you feel unwell.         Skin Contact       Rinse skin with water. If skin imitation occurs, get medical advice/attention.         Eye Contact       Rinse out mouth with water for several imitudes. Remove contact lenses, if present<br>and easy to do. Continue rinsing.         Ingestion       Rinse out mouth with water for several imitudes. Remove contact lenses, if present<br>and easy to do. Continue finsing.         4.3 Indication of any immediate medical attention and special treatment needed<br>Treat symptomatically.         SECTION 5: FIREFIGHTING MEASURES         5.1 Extinguishing media       As appropriate for surrounding fire.         5.3 Advice for firefighters         Fire fighters should wear complete protective clothing including self-contained<br>breathing apparatus.         SECTION 6: ACCIDENTAL RELEASE MEASURES         6.1 Personal precautions, protective equipment and emergency procedures.<br>Follow safe handling<br>Advice on safe handling<br>Advice on safe handling<br>Advice on safe h  |                                   |            |  |                     |  |
| 3.2 Mixtures       Not applicable.         SECTION 4: FIRST AID MEASURES       First aiders should ensure they have taken adequate steps to protect themselves from exposure (see Section 8 for recommended personal protection equipment) Show this safety data sheet to the doctor in attendance.         Inhalation       Rinse stafety data sheet to the doctor in attendance.         Skin Contact       Rinse stafety data sheet to the doctor in attendance.         Eye Contact       Rinse skin with water. If skin initiatio occurs, get medical advice/attention.         Eye Contact       Rinse out mouth with water. Get medical advice/attention if you feel unwell.         4.2 Most important symptoms and effects, both acute and delayed.       Most important symptoms and effects, both acute and delayed. are included on labelling (Section 2.2) and in Section 11.         4.3 Indication of any immediate medical attention and special treatment needed Treat symptomatically.       Section 11.         SECTION 5: FIREFIGHTING MEASURES       51 Extinguishing media       As appropriate for surrounding fire.         5.2 Special hazards arising from the subclance or mixture Cathon oxides wing apparatus.       Section 8.1       Section 8.1         SECTION 6: ACCIDENTAL RELEASE MEASURES       5.1 Horisonal precautions, protective equipment and emergency procedures Follow safe handling advice and personal protective equipment for collecting spit materials, where parcitable. Dispose of contents in accordance with local, state or national legislation.         6.1 Personal precautions, protective equipment and emergen   |                                   |            |  |                     |  |
| Not applicable.  SECTION 4: FIRST AID MEASURES  4.1 Description of first aid measures General Advice First aiders should ensure they have taken adequate steps to protect themselves from exposure (see Section 8 for recommended personal protection equipment) Show this safety data sheet to the doctor in attendance. Inhalation Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell. Skin Contact Rines skin with water. If skin irritation occurs, get medical advice/attention, expected the advice/attention if you feel unwell.  4.2 Most important symptoms and effects, both acute and delayed Most important symptoms and effects, both acute and delayed Most important symptoms and effects, both acute and delayed Most important symptoms and effects, both acute and delayed Most important symptoms and effects, both acute and delayed Most important symptoms and effects, both acute and delayed Most important symptoms and effects, both acute and delayed Most important symptomatically.  SECTION 5: FIREFIGHTING MEASURES 5.1 Extinguishing media As appropriate for surrounding fre. 5.2 Special hazards arising from the substance or mutrure Carbon oxides NUtrogen oxides (NOX) 5.3 Advice for firefighters 5.1 Erif fighters should wear complete protective clothing including self-contained breathing apparatus.  SECTION 6: ACCIDENTAL RELEASE MEASURES 6.1 Personal precautions, protective equipment and energency procedures Follow safe handling advice and personal protective equipment for collecting spill materials, where parcial tabalts. Dispose of contents in accordance with local, state or national legislation. 6.2 Environmental precautions Avoid release to the environment. 6.3 Methods and material for containmed metagency procedures Follow safe handling Advice or safe handling Advice or asfe handling Advice or safe handling Advice or asfe handl   | 3.2 Mixtures                      |            |  |                     | Calc. IA 11550                             |
| 4.1 Description of first aid measures         General Advice       First aiders should ensure they have taken adequate steps to protect themselves from exposure (see Section 8 for recommended personal protection equipment)         Show this safety data sheet to the doctor in attendance.       Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.         Shin Contact       Rines estim with water. If skin infration occurs, get medical advice/attention.         Eye Contact       Rines exit on thorwith water. Get medical advice/attention.         Station of any important symptoms and effects, both acute and delayed.       Are included on labeling (Section 2.2) and in Section 11.         4.3 Indication of any immediate medical attention and special treatment needed       Treat symptomatically.         SECTION 5: FIREFIGHTING MEASURES       5.1 Extinguishing media         5.1 Extinguishing media       As appropriate for surrounding fire.         Unsuitable extinguishing media       As appropriate for surrounding fire.         Sitrable Extinguishing media       As appropriate for surrounding fire.         5.3 Advice for firefighters       Fire fighters should wear complete protective clothing including self-contained breathing apparatus.         SECTION 6: ACCIDENTAL RELEASE MEASURES       6.1 Personal precautions, protective equipment and emergency procedures follow safe handling advice and personal protective equipment for collecting spill materials, where practalable. Dispose of contents in accordance with local, st  |                                   |            |  |                     |  |
| General Advice       First aiders should ensure they have taken adequate steps to protect themselves<br>from exposure (see Section 8 for recommended personal protection equipment)<br>Show this safety data sheet to the doctor in attendance.         Inhalation       Remove person to fresh air and keep comfortable for breathing. Get medical<br>advice/attention if you feel unwell.         Skin Contact       Rinse calitously with water if skin irritation occurs, get medical advice/attention.<br>Eye Contact         Ingestion       Rinse out mouth with water. Cet medical advice/attention if you feel unwell.         4.2 Most important symptoms and effects, both acute and delayed<br>Most important symptoms and effects, both acute and delayed<br>Most important symptoms and effects.<br>Subable Exits and special treatment needed<br>Treat symptomatically.         SECTION 5: FIREFIGHTING MEASURES         5.1 Extinguishing media<br>Suitable Extinguishing media       As appropriate for surrounding fire.<br>Carbon oxides<br>Nitrogen oxides (NCx)         5.3 Advice for firefighters       Fire fighters should wear complete protective clothing including self-contained<br>berathing apparatus.         SECTION 6: ACCIDENTAL RELEASE MEASURES         6.1 Personal precautions, protective equipment and emergency procedures<br>Follow safe handling duvice and personal protective equipment for<br>collecting spilt materials, where practicable. Dispose of contents in accordance with<br>local, state or national legislation.         6.2 Environmental precautions<br>Cation specter setting spilt substance or avoid making dust. Use vacuum equipment for<br>collecting spilt materials, where pra   | SECTION 4: FIRST AID MEAS         | URES       |  |                     |  |
| General Advice       First aiders should ensure they have taken adequate steps to protect themselves         Inhalation       From exposure (see Section 8 for recommended personal protection equipment)         Show this safety data sheet to the doctor in attendance.       Inhalation         Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.       Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.         Skin Contact       Rines calitously with water if skin irritation occurs, get medical advice/attention.         Lyes Contact       Rines calitously with water if skin irritation occurs, get medical advice/attention.         Ass protocol       Rines calitously with water if skin irritation occurs, get medical advice/attention.         4.2 Most important symptoms and effects, both acute and delayed       me included on labelling (Section 2.2) and in Section 11.         4.3 Indication of any immediate medical attention and special treatment needed       Treat symptomatically.         SECTION 5: FIREFIGHTING MEASURES       So throthe substance or mixture         5.1 Extinguishing media       As appropriate for surrounding fire.         Unsuitable extinguishing media       As appropriate for surrounding fire.         5.2 Special hazards arising from the substance or mixture       Carbon oxides         5.3 Advice for firefighters       Fire fighters should wear complete protective clothing including self-contained breathing apparatus.   | 4.1 Description of first aid me   | easures    |  |                     |  |
| Show this safety data sheet to the doctor in attendance. Inhalation Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell. Skin Contact Rinse skin with water. If skin irritation occurs, get medical advice/attention. Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Ingestion Rinse out mouth with water. Cet medical advice/attention if you feel unwell. 4.2 Most important symptoms and effects, both acute and delayed Most important symptoms and effects, both acute and delayed Most important symptoms and effects, both acute and delayed, are included on labelling (Section 2.2) and in Section 11. 4.3 Indication of any immediate medical attention and special treatment needed Treat symptomatically. SECTION 5: FIREFIGHTING MEASURES 5.1 Extinguishing media As appropriate for surrounding fire. Unsuitable extinguishing media As appropriate for surrounding fire. 5.2 Special hazards arising from the subscance or mixture Carbon oxides State Extinguishing media Section 5: ACCIDENTAL RELEASE MEASURES 6.1 Personal precautions, protective equipment and emergency procedures Follow safe handling advice and personal protective equipment recommendations (as per section 8). Provide adquate ventilation. 6.4 Reference to other sections See Also Section 8, 13. SECTION 7: HANDLING AND STORAGE 7.1 Precautions for safe handling Advice on safe handling Advice on safe handling Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well- wenitade are very environment. 6.4 Reference to other sections See Also Section 8, 13. SECTION 7: HANDLING AND STORAGE 7.1 Precautions for safe handling Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well- wenitade area. Wear protective colthing as per section 8. Hygiene measures Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday. 7.2 Conditions for safe storage, including any incomp   |                                   |            | aiders should ensu                             | ure they have take  | n adequate steps to protect themselves     |
| Inhalation Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell. Skin Contact Rines exinuity with water. If skin irritation occurs, get medical advice/attention. Eye Contact Rines exinuity with water. If skin irritation occurs, get medical advice/attention. Rines coutiously with water, Get medical advice/attention if you feel unwell. 4.2 Most important symptoms and effects, both acute and delayed 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical attention and special treatment needed Treat symptomatically. SECTION 5: FIREFIGHTING MEASURES 5.1 Extinguishing media As appropriate for surrounding fire. Suitable Extinguishing media As appropriate for surrounding fire. Suitable Extinguishing media As appropriate for surrounding fire. Carbon oxides Nitrogen oxides (NOX) 5.3 Advice for firefighters 5.1 Personal precautions, protective equipment and emergency procedures Carbon oxides Carbon surface and elayed are environment. 6.3 Methods and material for containment and cleaning up Sweep up spilled substance - avoid making dust. Use vacuum equipment for collecting spill materials, where practicable. Dispose of contents in accordance with local, state or national legislation. 6.4 Reference to other sections Carbon State Section 8, 13. SECTION 7: HANDLING AND STORAGE 7.1 Precautions for safe handling Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-wentilated area. Wear protective clothing sper section 8. Hygiene measures Keep away from food and drink. Wash hands after handling, before breaks, and at the end if workay. 7.2 Conditions for safe storage, including any incompatibilities Store in a well-wentilated place. Keep container tightly closed. Storage temperature   |                                   |            |  |                     |  |
| advice/attention if you feel unvell.<br>Skin Contact Rinse skin with water. If skin irritation occurs, get medical advice/attention.<br>Eye Contact Rinse autiously with water for several minutes. Remove contact lenses, if present<br>and easy to do. Continue rinsing.<br>Ingestion Rinse out mouth with water. Get medical advice/attention if you feel unwell.<br>4.2 Most important symptoms and effects, both acute and delayed<br>Most important symptoms and effects, both acute and delayed, are included on<br>labelling (Section 2.2) and in Section 11.<br>4.3 Indication of any immediate medical attention and special treatment needed<br>Treat symptomatically.<br>SECTION 5: FIREFIGHTING MEASURES<br>5.1 Extinguishing media<br>Suitable Extinguishing med |                                   |            |  |                     |  |
| Skin Contact       Rinse skin with water. If skin iritiation occurs, get medical advice/attention.         Eye Contact       Rinse autiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         Ingestion       Rinse out mouth with water. Get medical advice/attention if you feel unwell.         4.2 Most important symptoms and effects, both acute and delayed       Most important symptoms and effects, both acute and delayed         4.3 Indication of any immediate medical attention and special treatment needed       Treat symptoms and effects, both acute and delayed         5.1 Extinguishing media       As appropriate for surrounding fire.         Suitable Extinguishing media       As appropriate for surrounding fire.         5.2 Special hazards arising from the substance or mixture       Carbon oxides         Nitrogen oxides       Nitrogen oxides         5.3 Advice for firefighters       Fire fighters should wear complete protective clothing including self-contained breathing apparatus.         SECTION 6: ACCIDENTAL RELEASE MEASURES       E.1 Personal precautions, protective equipment and emergency procedures (as per section 8). Provide adequate ventilation.         6.3 Methods and material for containment and cleaning up solited substance - avoid making dust. Use vacuum equipment for collecting split materials, where practicable. Dispose of contents in accordance with local, state or national legislation.         6.4 Reference to other sections       See Also Section 8, 13.         SECTION 7  | Inhalation                        |            |  |                     | nfortable for breathing. Get medical       |
| Eye Contact       Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to 0. Continue rinsing.         Ingestion       Rinse out mouth with water. Get medical advice/attention if you feel unwell.         4.2 Most important symptoms and effects, both acute and delayed.       Most important symptoms and effects, both acute and delayed, are included on labeling (Section 2.2) and in Section 11.         4.3 Indication of any immediate medical attention and special treatment needed Treat symptomatically.         SECTION 5: FIREFIGHTING MEASURES         5.1 Extinguishing media       As appropriate for surrounding fire.         Unsuitable extinguishing media       As appropriate for surrounding fire.         5.2 Special hazards arising from the substance or mixture Carbon oxides Nitrogen oxides (NOX)       Eire fighters should wear complete protective clothing including self-contained breathing apparatus.         SECTION 6: ACCIDENTAL RELEASE MEASURES       Eire fighters should wear complete protective equipment recommendations (as per section 8). Provide adequate ventilation.         6.1 Personal precautions, protective equipment and emergency procedures Follow safe handling advice and personal protective equipment for containment and cleaning up Sweep up spilled substance - avoid making dust. Use vacuum equipment for collecting spillent substance - avoid making dust. Use vacuum equipment for collecting spillent substance - avoid making dust. Use vacuum equipment for collecting spillent advicals, where practicable. Dispose of contents in accordance with local, state or national legislation.         6.3 Methods and material for conta   | Skin Contact                      |            |  |                     | ure act modical advice/attention           |
| and easy to do Continue rinsing.<br>Ingestion Rrise out mouth with water. Get medical advice/attention if you feel unwell.<br>4.2 Most important symptoms and effects, both acute and delayed<br>Most important symptoms and effects, both acute and delayed, are included on<br>liabelling (Section 2.2) and in Section 11.<br>4.3 Indication of any immediate medical attention and special treatment needed<br>Treat symptomatically.<br>SECTION 5: FIREFIGHTING MEASURES<br>5.1 Extinguishing media<br>Suitable extinguishing from the substance or mixture<br>Carbon oxides<br>Nitrogen oxides (NOx)<br>5.3 Advice for firefighters<br>Fire fighters should wear complete protective clothing including self-contained<br>breathing apparatus.<br>SECTION 6: ACCIDENTAL RELEASE MEASURES<br>6.1 Personal precautions, protective equipment and emergency procedures<br>Follow safe handling advice and personal protective equipment recommendations<br>(as per section 8). Provide adequate ventilation.<br>6.3 Methods and material for containment and cleaning up<br>Sweep up spilled substance - avoid making dust. Use vacuum equipment for<br>collecting spill materials, where practicable. Dispose of contents in accordance with<br>local, state or national legislation.<br>6.4 Reference to other sections<br>See Also Section 8, 13.<br>SECTION 7: HANDLING AND STORAGE<br>7.1 Precautions for safe handling<br>Advice on safe handling<br>Advice on safe handling<br>Advice on safe handling<br>Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a we               |                                   |            |  |                     |  |
| Ingestion Rinse our mouth with water. Ger medical advice/attention if you feel unwell. 4.2 Most important symptoms and effects, both acute and delayed Most important symptoms and effects, both acute and delayed, are included on labelling (Section 2.2) and in Section 11. 4.3 Indication of any immediate medical attention and special treatment needed Treat symptomatically. SECTION 5: FIREFIGHTING MEASURES 5.1 Extinguishing media Suitable Extinguishing media As appropriate for surrounding fire. Unsuitable extinguishing media As appropriate for surrounding fire. Carbon oxides Nitrogen oxides Nitrogen oxides (NOX) 5.3 Advice for firefighters Fire fighters should wear complete protective clothing including self-contained breathing apparatus. SECTION 6: ACCIDENTAL RELEASE MEASURES 6.1 Personal precautions, protective equipment and emergency procedures (as per section 8). Provide adequate ventilation. 6.2 Environmental precautions Void release to the environment. 6.3 Methods and material for containment and cleaning up See Also Section 8, 13. SECTION 7: HANDLING AND STORAGE 7.1 Precautions for safe handling Advice on safe handling Advice on safe handling Advice on safe storage, including any incompatibilities Storage temperature Storag   | Lyo Comact                        |            |  |                     |  |
| 4.2 Most important symptoms and effects, both acute and delayed<br>Most important symptoms and effects, both acute and delayed, are included on<br>labelling (Section 2.2) and in Section 11.         4.3 Indication of any immediate medical attention and special treatment needed<br>Treat symptoms and effects, both acute and delayed, are included on<br>labelling (Section 2.2) and in Section 11.         5.1 Extinguishing media       As appropriate for surrounding fire.         5.2 Special hazards arising from the substance or mixture<br>Carbon oxides       Carbon oxides         5.3 Advice for firefighters       Fire fighters should wear complete protective clothing including self-contained<br>breathing apparatus.         SECTION 6: ACCIDENTAL RELEASE MEASURES       Fire fighters should wear complete protective equipment recommendations<br>(as per section 8). Provide adequate ventilation.         6.1 Personal precautions, protective equipment and emergency procedures<br>Follow safe handling advice and personal protective equipment recommendations<br>(as per section 8). Provide adequate ventilation.         6.3 Methods and material for containment and cleaning up<br>Sweep up spilled substance - avoid making dust. Use vacuum equipment for<br>collecting spillent advials, where practicable. Dispose of contents in accordance with<br>local, state or national legislation.         6.4 Reference to other sections       See Also Section 8, 13.         SECTION 7: HANDLING AND STORAGE       Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-<br>ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and dink. Wash hands after handling, b  | Ingestion                         |            |  |                     | advice/attention if you feel unwell.       |
| Most important symptoms and effects, both acute and delayed, are included on<br>labelling (Section 2.2) and in Section 11.<br>4.3 Indication of any immediate medical attention and special treatment needed<br>Treat symptomatically.<br>SECTION 5: FIREFIGHTING MEASURES<br>5.1 Extinguishing media<br>Unsuitable extinguishing media<br>Unsuitable extinguishing media<br>Unsuitable extinguishing media<br>As appropriate for surrounding fire.<br>Unsuitable extinguishing media<br>As appropriate for surrounding fire.<br>Unsuitable extinguishing media<br>As appropriate for surrounding fire.<br>Unsuitable extinguishing media<br>As appropriate for surrounding fire.<br>5.2 Special hazards arising from the substance or mixture<br>Carbon oxides<br>Nitrogen oxides (NOx)<br>5.3 Advice for firefighters<br>Fire fighters should wear complete protective clothing including self-contained<br>breathing apparatus.<br>SECTION 6: ACCIDENTAL RELEASE MEASURES<br>6.1 Personal precautions, protective equipment and emergency procedures<br>Follow safe handling advice and personal protective equipment recommendations<br>(as per section 8). Provide adequate ventilation.<br>6.2 Environmental precautions<br>Avoid release to the environment.<br>6.3 Methods and material for containment and cleaning up<br>Sweep up spilled substance - avoid making dust. Use vacuum equipment for<br>collecting spill materials, where practicable. Dispose of contents in accordance with<br>local, state or national legislation.<br>6.4 Reference to other sections<br>See Also Section 8, 13.<br>SECTION 7: HANDLING AND STORAGE<br>7.1 Precautions for safe handling<br>Advice on safe handling<br>Advice on safe handling<br>Advice on safe handling<br>Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-<br>ventilated area. Wear protective clothing as per section 8.<br>Hygiene measures<br>Keep away from food and drink. Wash hands after handling, before breaks, and at<br>the end of workday.<br>7.2 Conditions for safe storage, including any incompatibilities<br>Store in a well-ventilated place. Keep container tightly closed.<br>Storage temperature                           |                                   |            |  |                     | ······ ,···                                |
| 4.3 Indication of any immediate medical attention and special treatment needed Treat symptomatically.         SECTION 5: FIREFIGHTING MEASURES         5.1 Extinguishing media       As appropriate for surrounding fire.         5.2 Special hazards arising from the substance or mixture Carbon oxides Nitrogen oxides (NCx)       Strongen oxides (NCx)         5.3 Advice for firefighters       Fire fighters should wear complete protective clothing including self-contained breathing apparatus.         SECTION 6: ACCIDENTAL RELEASE MEASURES         6.1 Personal precautions, protective equipment and emergency procedures Carbon oxides (as per section 8). Provide adequate ventilation.         6.2 Environmental precautions       Avoid release to the environment.         6.3 Methods and material for containment and cleaning up Sweep up spilled substance - avoid making dust. Use vacuum equipment for collecting spilt materials, where practicable. Dispose of contents in accordance with local, state or national legislation.         6.4 Reference to other sections         Section 7: HANDLING AND STORAGE         7.1 Precautions for safe handling Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-ventilated area. Wear protective clothing as per section 8.         Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-ventilated area. Wear protective clothing as per section 8.         Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-ventilated area. Wear protective clot  |                                   | Mos        | t important symptor                            | ms and effects, bo  | th acute and delayed, are included on      |
| Treat symptomatically.         SECTION 5: FIREFIGHTING MEASURES         5.1 Extinguishing media       As appropriate for surrounding fire.         Suitable Extinguishing media       As appropriate for surrounding fire.         1. Disutiable extinguishing media       As appropriate for surrounding fire.         5.2 Special hazards arising from the substance or mixture       Carbon oxides         5.3 Advice for firefighters       Nitrogen oxides (NOx)         5.3 Advice for firefighters       Fire fighters should wear complete protective clothing including self-contained breathing apparatus.         SECTION 6: ACCIDENTAL RELEASE MEASURES       Ellow safe handling advice and personal protective equipment recommendations (as per section 8). Provide adequate ventilation.         6.1 Personal precautions, protective equipment and emergency procedures       Follow safe handling advice and personal protective equipment recommendations (as per section 8). Provide adequate ventilation.         6.2 Environmental precautions       Avoid release to the environment.         6.3 Methods and material for containent and cleaning up       Sweep up spilled substance - avoid making dust. Use vacuum equipment for collecting spilt materials, where practicable. Dispose of contents in accordance with local, state or national legislation.         6.4 Reference to other sections       See Also Section 8, 13.         SECTION 7: HANDLING AND STORAGE       Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-ventilated area. Wear protective clot  |                                   |            |  |                     |  |
| SECTION 5: FIREFIGHTING MEASURES         5.1 Extinguishing media       As appropriate for surrounding fire.         Visuable Extinguishing media       As appropriate for surrounding fire.         5.2 Special hazards arising from the substance or mixture       Carbon oxides         Stronger Extinguishing media       Na appropriate for surrounding fire.         5.2 Special hazards arising from the substance or mixture       Carbon oxides         Stronger Extinguishing media       Nitrogen oxides (NOx)         5.3 Advice for firefighters       Fire fighters should wear complete protective clothing including self-contained breathing apparatus.         SECTION 6: ACCIDENTAL RELEASE MEASURES       Follow safe handling advice and personal protective equipment recommendations (as per section 8). Provide adequate ventilation.         6.1 Personal precautions, protective equipment and emergency procedures       Follow safe handling up         Avoid release to the environment.       Avoid release to the environment.         6.3 Methods and material for containment and cleaning up       Sweep up spilled substance - avoid making dust. Use vacuum equipment for collecting spilt materials, where practicable. Dispose of contents in accordance with local, state or national legislation.         6.4 Reference to other sections       See Also Section 8, 13.         SECTION 7: HANDLING AND STORAGE       Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-ventilated area. Wear protective clothing as per section 8.   | 4.3 Indication of any immedia     |            |  | I treatment neede   | ed   |
| 5.1 Extinguishing media       As appropriate for surrounding fire.         Unsuitable Extinguishing media       As appropriate for surrounding fire.         5.2 Special hazards arising from the substance or mixture<br>Carbon oxides (NOx)       Carbon oxides (NOx)         5.3 Advice for firefighters       Fire fighters should wear complete protective clothing including self-contained breathing apparatus.         SECTION 6: ACCIDENTAL RELEASE MEASURES       Fire fighters should wear complete protective equipment recommendations (as per section 8). Provide adequate ventilation.         6.1 Personal precautions, protective equipment and emergency procedures.<br>Follow safe handling advice and personal protective equipment recommendations (as per section 8). Provide adequate ventilation.         6.3 Methods and material for containment and cleaning up<br>Sweep up spilled substance - avoid making dust. Use vacuum equipment for collecting spilt materials, where practicable. Dispose of contents in accordance with local, state or national legislation.         6.4 Reference to other sections       See Also Section 8, 13.         SECTION 7: HANDLING AND STORAGE       You'd inhalation, ingestion, and contact with skin and eyes. Use only in a well-ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.         7.2 Conditions for safe storage, including any incompatibilities<br>Storage temperature       3-5 *C   |                                   | Trea       | t symptomatically.                             |                     |  |
| Suitable Extinguishing media       As appropriate for surrounding fire.         Unsuitable extinguishing media       As appropriate for surrounding fire.         5.2 Special hazards arising from the substance or mixture<br>Carbon oxides<br>Nitrogen oxides (NOx)       Carbon oxides<br>Nitrogen oxides (NOx)         5.3 Advice for firefighters       Fire fighters should wear complete protective clothing including self-contained<br>breathing apparatus.         SECTION 6: ACCIDENTAL RELEASE MEASURES       Follow safe handling advice and personal protective equipment recommendations<br>(as per section 8). Provide adequate ventilation.         6.1 Personal precautions, protective equipment and emergency procedures<br>Follow safe handling advice and personal protective equipment recommendations<br>(as per section 8). Provide adequate ventilation.         6.2 Environmental precautions       Avoid release to the environment.         6.3 Methods and material for containment and cleaning up<br>Sweep up spilled substance - avoid making dust. Use vacuum equipment for<br>collecting spill materials, where practicable. Dispose of contents in accordance with<br>local, state or national legislation.         6.4 Reference to other sections       See Also Section 8, 13.         SECTION 7: HANDLING AND STORAGE       Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-<br>ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at<br>the end of workday.         7.2 Conditions for safe storage, including any incompatibilities<br>Store in a well-v  | SECTION 5: FIREFIGHTING N         | IEASURES   |  |                     |  |
| Suitable Extinguishing media       As appropriate for surrounding fire.         Jusuitable extinguishing media       As appropriate for surrounding fire.         5.2 Special hazards arising from the substance or mixture<br>Carbon oxides<br>Nitrogen oxides (NOx)       Carbon oxides<br>Nitrogen oxides (NOx)         5.3 Advice for firefighters       Fire fighters should wear complete protective clothing including self-contained<br>breathing apparatus.         SECTION 6: ACCIDENTAL RELEASE MEASURES       Follow safe handling advice and personal protective equipment recommendations<br>(as per section 8). Provide adequate ventilation.         6.1 Personal precautions, protective equipment and emergency procedures<br>Follow safe handling advice and personal protective equipment recommendations<br>(as per section 8). Provide adequate ventilation.         6.2 Environmental precautions       Avoid release to the environment.         6.3 Methods and material for containment and cleaning up<br>Sweep up spilled substance - avoid making dust. Use vacuum equipment for<br>collecting spill materials, where practicable. Dispose of contents in accordance with<br>local, state or national legislation.         6.4 Reference to other sections       See Also Section 8, 13.         SECTION 7: HANDLING AND STORAGE       Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-<br>ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at<br>the end of workday.         7.2 Conditions for safe storage, including any incompatibilities<br>Store in a well-v  | 5.1 Extinguishing media           |            |  |                     |  |
| Unsuitable extinguishing media As appropriate for surrounding fire.<br>5.2 Special hazards arising from the substance or mixture<br>Carbon oxides<br>Nitrogen oxides (NOx)<br>5.3 Advice for firefighters<br>Fire fighters should wear complete protective clothing including self-contained<br>breathing apparatus.<br>SECTION 6: ACCIDENTAL RELEASE MEASURES<br>6.1 Personal precautions, protective equipment and emergency procedures<br>Follow safe handling advice and personal protective equipment recommendations<br>(as per section 8). Provide adequate ventilation.<br>6.2 Environmental precautions<br>Avoid release to the environment.<br>6.3 Methods and material for containment and cleaning up<br>Sweep up spilled substance - avoid making dust. Use vacuum equipment for<br>collecting spilt materials, where practicable. Dispose of contents in accordance with<br>local, state or national legislation.<br>6.4 Reference to other sections<br>See Also Section 8, 13.<br>SECTION 7: HANDLING AND STORAGE<br>7.1 Precautions for safe handling<br>Advice on safe handling<br>Advice on safe handling<br>Advice on safe handling<br>Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-<br>ventilated area. Wear protective clothing as per section 8.<br>Hygiene measures<br>Keep away from food and drink. Wash hands after handling, before breaks, and at<br>the end of workday.<br>7.2 Conditions for safe storage, including any incompatibilities<br>Storage temperature<br>3.5 °C   |                                   | As a       | ppropriate for surro                           | ounding fire.       |  |
| 5.2 Special hazards arising from the substance or mixture<br>Carbon oxides<br>Nitrogen oxides (NOX)       Sitting an oxides (NOX)         5.3 Advice for firefighters       Fire fighters should wear complete protective clothing including self-contained<br>breathing apparatus.         SECTION 6: ACCIDENTAL RELEASE MEASURES         6.1 Personal precautions, protective equipment and emergency procedures<br>Follow safe handling advice and personal protective equipment recommendations<br>(as per section 8). Provide adequate ventilation.         6.2 Environmental precautions<br>Avoid release to the environment.         6.3 Methods and material for containment and cleaning up<br>Sweep up spilled substance - avoid making dust. Use vacuum equipment for<br>collecting spilt materials, where practicable. Dispose of contents in accordance with<br>local, state or national legislation.         6.4 Reference to other sections         See Also Section 8, 13.         SECTION 7: HANDLING AND STORAGE         7.1 Precautions for safe handling<br>Advice on safe handling         Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-<br>ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at<br>the end of workday.         7.2 Conditions for safe storage, including any incompatibilities<br>Store in a well-ventilated place. Keep container tightly closed.         Store in a well-ventilated place. Keep container tightly closed.  |                                   |            |  |                     |  |
| Carbon oxides<br>Nitrogen oxides (NOx)         5.3 Advice for firefighters         Fire fighters should wear complete protective clothing including self-contained breathing apparatus.         SECTION 6: ACCIDENTAL RELEASE MEASURES         6.1 Personal precautions, protective equipment and emergency procedures<br>Follow safe handling advice and personal protective equipment recommendations<br>(as per section 8). Provide adequate ventilation.         6.2 Environmental precautions         Avoid release to the environment.         6.3 Methods and material for containment and cleaning up<br>Sweep up spilled substance - avoid making dust. Use vacuum equipment for<br>collecting spille materials, where practicable. Dispose of contents in accordance with<br>local, state or national legislation.         6.4 Reference to other sections         See Also Section 8, 13.         SECTION 7: HANDLING AND STORAGE         7.1 Precautions for safe handling<br>Advice on safe handling         Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-<br>ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at<br>the end of workday.         7.2 Conditions for safe storage, including any incompatibilities<br>Store in a well-ventilated place. Keep container tightly closed.         Storage temperature       3-5 °C  |                                   |            |  | 5                   |  |
| 5.3 Advice for firefighters       Fire fighters should wear complete protective clothing including self-contained breathing apparatus.         SECTION 6: ACCIDENTAL RELEASE MEASURES         6.1 Personal precautions, protective equipment and emergency procedures<br>Follow safe handling advice and personal protective equipment recommendations (as per section 8). Provide adequate ventilation.         6.2 Environmental precautions       Avoid release to the environment.         6.3 Methods and material for containment and cleaning up<br>Sweep up spilled substance - avoid making dust. Use vacuum equipment for collecting spilt materials, where practicable. Dispose of contents in accordance with local, state or national legislation.         6.4 Reference to other sections       See Also Section 8, 13.         SECTION 7: HANDLING AND STORAGE         7.1 Precautions for safe handling<br>Advice on safe handling       Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.         7.2 Conditions for safe storage, including any incompatibilities<br>Store in a well-ventilated place. Keep container tightly closed.         Storage temperature       3-5 °C  |                                   |            |  |                     |  |
| Fire fighters should wear complete protective clothing including self-contained breathing apparatus.         SECTION 6: ACCIDENTAL RELEASE MEASURES         6.1 Personal precautions, protective equipment and emergency procedures<br>Follow safe handling advice and personal protective equipment recommendations (as per section 8). Provide adequate ventilation.         6.2 Environmental precautions       Avoid release to the environment.         6.3 Methods and material for containment and cleaning up<br>Sweep up spilled substance - avoid making dust. Use vacuum equipment for collecting spilt materials, where practicable. Dispose of contents in accordance with local, state or national legislation.         6.4 Reference to other sections       See Also Section 8, 13.         SECTION 7: HANDLING AND STORAGE         7.1 Precautions for safe handling<br>Advice on safe handling       Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.         7.2 Conditions for safe storage, including any incompatibilities<br>Store in a well-ventilated place. Keep container tightly closed.         Storage temperature       3-5 °C  |                                   | Nitro      | gen oxides (NOx)                               |                     |  |
| breathing apparatus.         SECTION 6: ACCIDENTAL RELEASE MEASURES         6.1 Personal precautions, protective equipment and emergency procedures<br>Follow safe handling advice and personal protective equipment recommendations<br>(as per section 8). Provide adequate ventilation.         6.2 Environmental precautions       Avoid release to the environment.         6.3 Methods and material for containment and cleaning up<br>Sweep up spilled substance - avoid making dust. Use vacuum equipment for<br>collecting spill materials, where practicable. Dispose of contents in accordance with<br>local, state or national legislation.         6.4 Reference to other sections       See Also Section 8, 13.         SECTION 7: HANDLING AND STORAGE       Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-<br>ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at<br>the end of workday.         7.2 Conditions for safe storage, including any incompatibilities<br>Storage temperature       Store in a well-ventilated place. Keep container tightly closed.  | 5.3 Advice for firefighters       |            |  |                     |  |
| SECTION 6: ACCIDENTAL RELEASE MEASURES         6.1 Personal precautions, protective equipment and emergency procedures<br>Follow safe handling advice and personal protective equipment recommendations<br>(as per section 8). Provide adequate ventilation.         6.2 Environmental precautions<br>Avoid release to the environment.         6.3 Methods and material for containment and cleaning up<br>Sweep up spilled substance - avoid making dust. Use vacuum equipment for<br>collecting spilt materials, where practicable. Dispose of contents in accordance with<br>local, state or national legislation.         6.4 Reference to other sections         See Also Section 8, 13.         SECTION 7: HANDLING AND STORAGE         7.1 Precautions for safe handling<br>Advice on safe handling         Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-<br>ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at<br>the end of workday.         7.2 Conditions for safe storage, including any incompatibilities<br>Storage temperature       Storage temperature  |                                   |            |  | ar complete protec  | tive clothing including self-contained     |
| 6.1 Personal precautions, protective equipment and emergency procedures<br>Follow safe handling advice and personal protective equipment recommendations<br>(as per section 8). Provide adequate ventilation.         6.2 Environmental precautions       Avoid release to the environment.         6.3 Methods and material for containment and cleaning up<br>Sweep up spilled substance - avoid making dust. Use vacuum equipment for<br>collecting spilt materials, where practicable. Dispose of contents in accordance with<br>local, state or national legislation.         6.4 Reference to other sections       See Also Section 8, 13.         SECTION 7: HANDLING AND STORAGE         7.1 Precautions for safe handling<br>Advice on safe handling       Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-<br>ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at<br>the end of workday.         7.2 Conditions for safe storage, including any incompatibilities<br>Storage temperature       Storage temperature  |                                   |            | 0 11   |                     |  |
| Follow safe handling advice and personal protective equipment recommendations (as per section 8). Provide adequate ventilation.         6.2 Environmental precautions         6.3 Methods and material for containment and cleaning up<br>Sweep up spilled substance - avoid making dust. Use vacuum equipment for collecting spilt materials, where practicable. Dispose of contents in accordance with local, state or national legislation.         6.4 Reference to other sections         SECTION 7: HANDLING AND STORAGE         7.1 Precautions for safe handling         Advice on safe handling         Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.         7.2 Conditions for safe storage, including any incompatibilities       Store in a well-ventilated place. Keep container tightly closed.         Storage temperature       3-5 °C   | SECTION 6: ACCIDENTAL RE          | LEASE MEAS | JRES   |                     |  |
| 6.2 Environmental precautions       (as per section 8). Provide adequate ventilation.         6.3 Methods and material for containment and cleaning up<br>Sweep up spilled substance - avoid making dust. Use vacuum equipment for<br>collecting spilt materials, where practicable. Dispose of contents in accordance with<br>local, state or national legislation.         6.4 Reference to other sections       See Also Section 8, 13.         SECTION 7: HANDLING AND STORAGE       See Also Section 8, 13.         7.1 Precautions for safe handling<br>Advice on safe handling       Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-<br>ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at<br>the end of workday.         7.2 Conditions for safe storage, including any incompatibilities<br>Storage temperature       Store in a well-ventilated place. Keep container tightly closed.<br>3-5 °C   | 6.1 Personal precautions, pre     |            |  |                     |  |
| 6.2 Environmental precautions       Avoid release to the environment.         6.3 Methods and material for containment and cleaning up       Sweep up spilled substance - avoid making dust. Use vacuum equipment for collecting spilt materials, where practicable. Dispose of contents in accordance with local, state or national legislation.         6.4 Reference to other sections       See Also Section 8, 13.         SECTION 7: HANDLING AND STORAGE         7.1 Precautions for safe handling       Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.         7.2 Conditions for safe storage, including any incompatibilities       Store in a well-ventilated place. Keep container tightly closed.         Storage temperature       3-5 °C  |                                   |            |  |                     |  |
| Avoid release to the environment.         6.3 Methods and material for containment and cleaning up<br>Sweep up spilled substance - avoid making dust. Use vacuum equipment for<br>collecting spilt materials, where practicable. Dispose of contents in accordance with<br>local, state or national legislation.         6.4 Reference to other sections       See Also Section 8, 13.         SECTION 7: HANDLING AND STORAGE         7.1 Precautions for safe handling<br>Advice on safe handling       Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-<br>ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at<br>the end of workday.         7.2 Conditions for safe storage, including any incompatibilities<br>Store in a well-ventilated place. Keep container tightly closed.         Storage temperature       3-5 °C  |                                   |            | per section 8). Prov                           | ide adequate vent   | ilation.                                   |
| 6.3 Methods and material for containment and cleaning up       Sweep up spilled substance - avoid making dust. Use vacuum equipment for collecting spilt materials, where practicable. Dispose of contents in accordance with local, state or national legislation.         6.4 Reference to other sections       See Also Section 8, 13.         SECTION 7: HANDLING AND STORAGE       See Also Section 8, 13.         7.1 Precautions for safe handling       Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.         7.2 Conditions for safe storage, including any incompatibilities       Store in a well-ventilated place. Keep container tightly closed.         Storage temperature       3-5 °C  | 6.2 Environmental precaution      |            |  |                     |  |
| Sweep up spilled substance - avoid making dust. Use vacuum equipment for collecting spilt materials, where practicable. Dispose of contents in accordance with local, state or national legislation.         6.4 Reference to other sections         SECTION 7: HANDLING AND STORAGE         7.1 Precautions for safe handling         Advice on safe handling         Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.         7.2 Conditions for safe storage, including any incompatibilities       Store in a well-ventilated place. Keep container tightly closed.         Storage temperature       3-5 °C   | 6.2 Mothedo and motorial far      |            |  | vironment.          |  |
| 6.4 Reference to other sections       collecting spilt materials, where practicable. Dispose of contents in accordance with local, state or national legislation.         6.4 Reference to other sections       See Also Section 8, 13.         SECTION 7: HANDLING AND STORAGE         7.1 Precautions for safe handling       Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.         7.2 Conditions for safe storage, including any incompatibilities       Store in a well-ventilated place. Keep container tightly closed.         Storage temperature       3-5 °C  | o.s wethous and material for      |            |  | ance - avoid makir  | ng dust. I lee vacuum equipment for        |
| 6.4 Reference to other sections       local, state or national legislation.         See Also Section 8, 13.         SECTION 7: HANDLING AND STORAGE         7.1 Precautions for safe handling         Advice on safe handling         Advice on safe handling         Hygiene measures         Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.         7.2 Conditions for safe storage, including any incompatibilities         Storage temperature       3-5 °C   |                                   | colle      | ep up spilleu subst<br>acting spillt materiale | s where practicable | le Dispose of contents in accordance with  |
| 6.4 Reference to other sections       See Also Section 8, 13.         SECTION 7: HANDLING AND STORAGE         7.1 Precautions for safe handling         Advice on safe handling         Advice on safe handling         Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.         7.2 Conditions for safe storage, including any incompatibilities         Storage temperature       3-5 °C   |                                   |            |  |                     | is. Dispose of contents in accordance with |
| See Also Section 8, 13.         SECTION 7: HANDLING AND STORAGE         7.1 Precautions for safe handling         Advice on safe handling         Advice on safe handling         Hygiene measures         Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.         7.2 Conditions for safe storage, including any incompatibilities         Storage temperature       3-5 °C   | 6.4 Reference to other sectio     |            | , state of national h                          |                     |  |
| 7.1 Precautions for safe handling       Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.         7.2 Conditions for safe storage, including any incompatibilities       Store in a well-ventilated place. Keep container tightly closed.         3-5 °C  |                                   |            | Also Section 8, 13                             | 5.                  |  |
| 7.1 Precautions for safe handling       Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.         7.2 Conditions for safe storage, including any incompatibilities       Store in a well-ventilated place. Keep container tightly closed.         3-5 °C  | SECTION 7: HANDLING AND STORAGE   |            |  |                     |  |
| Advice on safe handling       Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-ventilated area. Wear protective clothing as per section 8.         Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.         7.2 Conditions for safe storage, including any incompatibilities       Store in a well-ventilated place. Keep container tightly closed.         Storage temperature       3-5 °C  |                                   |            |  |                     |  |
| Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.         7.2 Conditions for safe storage, including any incompatibilities       Store in a well-ventilated place. Keep container tightly closed.         Storage temperature       3-5 °C  |                                   |            |  |                     |  |
| Hygiene measures       Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.         7.2 Conditions for safe storage, including any incompatibilities       Store in a well-ventilated place. Keep container tightly closed.         Storage temperature       3-5 °C  | Advice on safe handling           |            |  |                     |  |
| the end of workday.<br>7.2 Conditions for safe storage, including any incompatibilities<br>Store in a well-ventilated place. Keep container tightly closed.<br>Storage temperature 3-5 °C  |                                   |            |  | -                   |  |
| 7.2 Conditions for safe storage, including any incompatibilities         Store in a well-ventilated place. Keep container tightly closed.         Storage temperature       3-5 °C   | Hygiene measures                  |            |  | nd drink. Wash ha   | inds after handling, before breaks, and at |
| Storage temperatureStore in a well-ventilated place. Keep container tightly closed.3-5 °C  |                                   |            |  |                     |  |
| Storage temperature 3-5 °C   | 7.2 Conditions for safe stora     |            |  |                     |  |
| 5 1  | 0                                 |            |  | d place. Keep con   | itainer tightly closed.                    |
| Storage life Product is air sensitive. Handle and store under inert gas.   |                                   |            |  |                     | under inert and                            |
|  | Slorage lie                       | Proc       | iuct is all sensitive.                         | nanule and store    | under men gas.                             |



# SAFETY DATA SHEET

| Incompatible materials  | None known.  |  |
|---|--|--|
| 7.3 Specific end use(s)   | Apart from the uses mentioned in section 1.2 no other specific uses are stipulated   |  |
| SECTION 8: EXPOSURE CONTROLS/P  | ERSONAL PROTECTION   |  |
| <ul><li>8.1 Control parameters</li><li>8.1.1 Occupational Exposure Limits</li></ul> | No Occupational Exposure Limit assigned.   |  |
|   | ···· · · · · · · · · · · · · · · · · ·   |  |
| 8.2 Exposure controls   |  |  |
| 8.2.1. Appropriate engineering controls   | Ensure adequate ventilation and/or exhaust. A washing facility/water for eye and skin cleaning purposes should be present.   |  |
| 8.2.2. Personal protection equipment  |  |  |
| Eye Protection  | Wear eye protection with side protection tested and approved under appropriate government standards such as EN166 (EU).  |  |
| Hand protection   | Handle with gloves. Gloves must be inspected prior to use and proper glove removal techniques should be used. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. |  |
| Body protection   | Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.   |  |
| Respiratory protection  | Where risk assessment shows air-purifying respirators are appropriate use a full-<br>face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a<br>backup to engineering controls.  |  |
| Thermal hazards   | None known.  |  |
| 8.2.3. Environmental Exposure Controls  | Avoid release to the environment.  |  |

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| 9.1 Information on basic physical and       | chemical properties            |
|---|--------------------------------|
| Physical State                              | Solid: Powder.                 |
| Colour                                      | Pale Brown to Brown.           |
| Odour                                       | Not known.                     |
| Odour threshold                             | Not known.                     |
| Melting point/freezing point                | 312-315 °C                     |
| Initial boiling point and boiling range     | Not known.                     |
| Flammability                                | Not known.                     |
| Lower and upper explosion limit             | Not known.                     |
| Flash Point                                 | Not known.                     |
| Auto-ignition temperature (°C)              | Not known.                     |
| Decomposition temperature (°C)              | Not known.                     |
| рН  | Not known.                     |
| Kinematic viscosity                         | Not known.                     |
| Solubility(ies)                             | Solubility (Water): Not known. |
|   | Solubility (Other): Not known. |
| Partition coefficient: n-octanol/water (log | Not known.                     |
| value)                                      |                                |
| Vapour pressure                             | Not known.                     |
| Density                                     | Not known.                     |
| Relative density                            | Not known.                     |
| Relative vapour density                     | Not known.                     |
| Particle characteristics                    | Not known.                     |
| 9.2 Other information                       |                                |
|   | None.                          |

## SECTION 10: STABILITY AND REACTIVITY

None anticipated.

| 10.2 Chemical Stability                 |  |
|---|--|
| -                                       | Stable under recommended storage conditions. |
| 10.3 Possibility of hazardous reactions | 5  |
|   | Not known.                                   |
| 10.4 Conditions to avoid                |  |
|   | Not known.                                   |
| 10.5 Incompatible materials             |  |
|   | Not known.                                   |
| 10.6 Hazardous decomposition produc     | cts  |
|   | In the event of fire: see Section 5          |



## SECTION 11: TOXICOLOGICAL INFORMATION

| 11.1 Information on toxicological effec | ts                 |
|---|--------------------|
| Acute toxicity - Ingestion              | No data available. |
| Acute toxicity - Skin Contact           | No data available. |
| Acute toxicity - Inhalation             | No data available. |
| Skin corrosion/irritation               | No data available. |
| Serious eye damage/irritation           | No data available. |
| Skin sensitization data                 | No data available. |
| Respiratory sensitization data          | No data available. |
| Germ cell mutagenicity                  | No data available. |
| Carcinogenicity                         | No data available. |
| Reproductive toxicity                   | No data available. |
| Lactation                               | No data available. |
| STOT - single exposure                  | No data available. |
| STOT - repeated exposure                | No data available. |
| Aspiration hazard                       | No data available. |
| 11.2 Information on other hazards       |                    |
| 11.2.1 Endocrine disrupting properties  |                    |
|   | None known.        |
| 11.2.2. Information on other hazards    |                    |
|   | None known.        |

#### SECTION 12: ECOLOGICAL INFORMATION

| 12.1 Toxicity   |  |
|---|--|
| -   | No data available.   |
| Toxicity - Aquatic invertebrates  | No data available.   |
| Toxicity - Fish   | No data available.   |
| Toxicity - Algae  | No data available.   |
| Toxicity - Sediment Compartment   | Not classified.  |
| Toxicity - Terrestrial Compartment  | Not classified.  |
| 2.2 Persistence and Degradation   |  |
|   | Not known.   |
| 2.3 Bioaccumulative potential   | Net Leave  |
| 0.4 Mahilitu in sail  | Not known.   |
| 12.4 Mobility in soil   | Not known.   |
| 2.5 Results of PBT and vPvB asse  |  |
| 2.5 Results of FBT and VFVB asse  | This substance/mixture contains no components considered to be either persistent     |
|   | bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative         |
|   | (vPvB) at levels of 0.1% or higher.  |
| 2.6 Endocrine disrupting properti   | · · · · · · · · · · · · · · · · · · ·  |
| proposition and a photometry of the p | Not known.   |
| 2.7 Other adverse effects   |  |
|   | Not known.   |
| SECTION 13: DISPOSAL CONSIDER   | RATIONS  |
| I3.1 Waste treatment methods  |  |
|   | Dispose of contents in accordance with local, state or national legislation. Recycle |
|   | only completely emptied packaging. Normal disposal is via incineration operated by   |
|   | an accredited disposal contractor. Send to a licensed recycler, reclaimer or         |
|   | incinerator.   |
| 3.2 Additional Information  |  |
|   | Disposal should be in accordance with local, state or national legislation.          |
| SECTION 14: TRANSPORT INFORM  | IATION   |
| IATA/IMO/RID/ADR  | Not classified as hazardous for transport.   |
| SECTION 15: REGULATORY INFOR  | ΜΑΤΙΟΝ   |
| SECTION 13. REGULATORT INFOR  |  |
| 15.1 Safety, health and environmer  | ntal regulations/legislation specific for the substance or mixture                   |
| European Regulations - Authorisatio   |  |
| Candidate List of Substances of Very  |  |
| High Concern for Authorisation  |  |

 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

 European Regulations - Authorisations and/or Restrictions On Use

 Candidate List of Substances of Very
 Not listed

 High Concern for Authorisation
 Not listed

 REACH: ANNEX XIV list of substances
 Not listed

 subject to authorisation
 Not listed

 REACH: Annex XVII Restrictions on the market and use of certain dangerous substances, mixtures and articles
 Not listed



| Community Rolling Action Plan (CoRAP)<br>Regulation (EC) N° 850/2004 of the<br>European Parliament and of the Council<br>on persistent organic pollutants | Not listed<br>Not listed                                     |
|---|--|
| Regulation (EC) N° 1005/2009 on   | Not listed   |
| substances that deplete the ozone layer   | N  |
| Regulation (EU) N° 649/2012 of the  | Not listed   |
| European Parliament and of the Council  |  |
| concerning the export and import of<br>hazardous chemicals  |  |
|   |  |
| National regulations  | Nativasua  |
| Other   | Not known.   |
| 15.2 Chemical Safety Assessment   | A REACH chemical safety assessment has not been carried out. |

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

#### LEGEND

| Acronyms    | ADN : European Agreement concerning the International Carriage of Dangerous<br>Goods by Inland Waterways<br>ADR : European Agreement concerning the International Carriage of Dangerous<br>Goods by Road<br>CAS : Chemical Abstracts Service<br>CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of<br>substances and mixtures<br>DNEL : Derived No Effect Level<br>EC : European Community<br>EINECS : European Inventory of Existing Commercial Chemical Substances<br>IATA : International Air Transport Association<br>IBC : Internediate Bulk Container<br>ICAO : International Civil Aviation Organization<br>IMDG : International Maritime Dangerous Goods<br>LTEL : Long term exposure limit<br>PBT : Persistent, Bioaccumulative and Toxic<br>PNEC : Predicted No Effect Concentration<br>REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals<br>RID : Regulations concerning the International Carriage of Dangerous Goods by Rail<br>STEL : Short term exposure limit<br>STOT : Specific Target Organ Toxicity<br>UN : United Nations<br>vPvB : very Persistent and very Bioaccumulative |
|-------------|---|
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