

## SAFETY DATA SHEET

|   |            | ;**       |           |            |           | 1<br>1 1 |        |     | Date       | Accesse  | ed: 25/08 | 3/2023 |
|---|------------|-----------|-----------|------------|-----------|----------|--------|-----|------------|----------|-----------|--------|
| 1   |            |           | 1         |            |           |          |        |     | Dat        | e Revise | ed: 02/12 | 2/2022 |
| Date Revised: 02/12/20<br>SECTION 1. IDENTIFICATION<br>Product Name: Ammonium Molybdate Tetrahydrate<br>CAS #: 12054-85-2<br>Relevant identified uses of the substance: Scientific research and development<br>Supplier details:<br>Stanford Advanced Materials<br>E-mail: sales@samaterials.com<br>Tel: (949) 407-8904<br>Address: 23661 Birtcher Dr., Lake Forest, CA 92630 U.S.A.<br>SECTION 2. HAZARDS IDENTIFICATION<br>Classification of the substance or mixture<br>Classification of the substance or mixture<br>Classification according to Regulation (EC) No 1272/2008<br>GHS07<br>Skin Irrit. 2 H315 Causes skin irritation.<br>Eye Irrit. 2A H319 Causes serious eye irritation.<br>STOT SE 3 H335 May cause respiratory irritation.   |            |           |           | 1.         |           |          |        |     |            |          |           |        |
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| Addre   | ess: 2366  | 1 Birtche | er Dr., L | ake For    | est, CA 9 | 92630    | U.S.A. |     |            |          |           |        |
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|   |            |           |           |            |           |          |        |     |            |          |           |        |
|   |            |           |           |            |           |          |        |     |            |          |           |        |
| . · .   |            | accordin  | g to Re   | guiation   |           |          | 2008   | 4   |            |          | 1         | 14     |
| Skin I  | rrit. 2 H3 | 15 Çaus   | es skin   | irritation |           |          | . *    |     |            |          |           |        |
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| Date Accessed: 25/06/202<br>Date Revised: 02/12/202<br>SECTION 1. IDENTIFICATION<br>Product Name: Ammonium Molybdate Tetrahydrate<br>CAS #: 12054-85-2<br>Relevant identified uses of the substance: Scientific research and development<br>Supplier details:<br>Stanford Advanced Materials<br>E-mail: sales@samaterials.com<br>Tel: (949) 407-8904<br>Address: 23681 Birtcher Dr., Lake Forest, CA 92630 U.S.A.<br>SECTION 2. HAZARDS IDENTIFICATION<br>Classification of the substance or mixture<br>Classification according to Regulation (EC) No 1272/2008<br>GHS07<br>Skin Irrit. 2 H315 Causes skin irritation.<br>Eye Irrit. 2A H319 Causes serious eye irritation.<br>STOT SE 3 H335 May cause respiratory irritation.<br>Classification according to Directive 67/548/EEC or Directive 1999/45/EC<br>Xi; Irritant<br>R36/37/38: Irritating to eyes, respiratory system and skin.   |            |           |           |            |           |          |        |     |            |          |           |        |
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| Date Accessed: 22/08/2023         Date Revised: 02/12/2022         SECTION 1. IDENTIFICATION         Product Name: Ammonium Molybdate Tetrahydrate         CAS #: 12054-85-2         Relevant identified uses of the substance: Scientific research and development         Supplier details:         Stanford Advanced Materials         E-mail: sales@samaterials.com         Tel: (949) 407-8904         Address: 23661 Birtcher Dr., Lake Forest, CA 92630 U.S.A.         SECTION 2. HAZARDS IDENTIFICATION         Classification according to Regulation (EC) No 1272/2008         GHS07         Skin Irrit. 2 H315 Causes skin irritation.         Eye Irrit. 2A H319 Causes serious eye irritation.         STOT SE 3 H335 May cause respiratory irritation.         Classification according to Directive 67/548/EEC or Directive 1999/45/EC         Xi; Irritant  |            |           |           |            |           |          |        |     |            |          |           |        |
|   |            |           |           |            |           |          |        |     |            |          |           |        |
| 1.  |            |           | · · · ·   |            |           | · .      |        |     | · · · ·    |          |           | · · ·  |

| N/A   |  |   |  |  | ·  |   |                               | ·                    |           |            |          |                |
|---|--|---|--|--|--|---|-------------------------------|----------------------|-----------|------------|----------|----------------|
| Hazards not othe  |  |   |  |  |  |   |                               |                      |           |            |          |                |
| No data available   | Э  |   |  |  |  |   |                               |                      |           | 1.         |          |                |
| Label elements  |  |   |  |  |  |   |                               |                      |           |            |          |                |
| Labelling accordi   | ing to Re  | egulatic  | on (EC) N  | o 1272                                       | /2008                                    |   |                               |                      |           |            |          |                |
| The substance is  | s classifi   | ed and  | labeled a  | ccordir                                      | ng∶to th                                 | e CLP reg                                   | ulation.                      |                      |           |            | `:<br>   |                |
| Hazard pictograr  | nsGHS0   | )7  |  | 1  | ۰.                                       |   | 1                             | · .                  |           | :          | ·        |                |
| Signal word   |  | I   |  | I  | I  | 1   | ,                             | ,                    |           | 1          | I        |                |
| Warning   |  |   |  |  | 1  |   |                               | 1                    |           |            |          | . '            |
| Hazard statemer   |  |   |  |  |  |   |                               |                      |           |            |          |                |
| H315 Causes sk  | in irritati  | on.   |  | 1<br>1 1                                     | 1  |   | 1                             |                      |           | н<br>н н   | 1        | . * *          |
| H319 Causes se  | rious ey   | e irritati  | ion.   | 1  |  | н н<br>н                                    |                               | 1.<br>1.             |           |            | 1.<br>1. |                |
| H335 May cause  | e respirat   | tory irrit  | tation.  |  |  |   |                               |                      |           |            |          |                |
| Precautionary sta   | atement  | S   |  | 1.1.1  | 1<br>1 1                                 |   | 1.1.1                         |                      |           |            |          |                |
| P261 Avoid brea   | thing du   | st/fume   | ∍/gas/mist   | /vapors                                      | s/spray                                  | -   |                               |                      |           |            |          |                |
|   |  |   |  |  | 1  |   |                               |                      |           |            |          |                |
| P280 Wear prote   | ctive glo  | oves/pr   | otective c   | lothing                                      | /eye pro                                 | otection/fa                                 | ce prot                       | ection.              |           |            |          |                |
| P280 Wear prote<br>P305+P351+P33  | 0  |   |  | 0  |  |   | •                             |                      | Remove    | contact    |          |                |
|   | 38 IF IN   | EYES:   | Rinse cau  | utiously                                     | y with w                                 |   | •                             |                      | Remove    | contact    |          |                |
| P305+P351+P33   | 38 IF IN   | EYES:<br>sy to do   | Rinse cau<br>o. Continu  | utiously<br>ue rinsir                        | y with w<br>ng.                          | vater for se                                | everal m                      | ninutes.             |           |            |          |                |
| P305+P351+P33<br>lenses, if present   | 38 IF IN<br>t and eas<br>NHALED  | EYES:<br>sy to do<br>): Remo                                    | Rinse cau<br>o. Continu<br>ove persor                                      | utiously<br>ue rinsir<br>n to fre            | y with w<br>ng.<br>esh air a             | vater for se<br>and keep c                  | everal m                      | ninutes.<br>able for | breathing | -<br>:     |          |                |
| P305+P351+P33<br>lenses, if present<br>P304+P340 IF IN  | 38 IF IN<br>t and eac<br>NHALED<br>ed up.  | EYES:<br>sy to do<br>): Remo                                    | Rinse cau<br>o. Continu<br>ove persor                                      | utiously<br>ue rinsir<br>n to fre<br>cordan  | y with w<br>ng.<br>esh air a<br>nce with | vater for se<br>and keep c<br>n local/regio | everal m<br>comforta<br>onal/ | ninutes.<br>able for | breathing | -<br>-<br> |          |                |
| P305+P351+P33<br>lenses, if present<br>P304+P340 IF IN<br>P405 Store locke  | 38 IF IN<br>t and ear<br>NHALED<br>ed up.<br>content   | EYES:<br>sy to do<br>): Remc<br>s/conta                         | Rinse cau<br>o. Continu<br>ove persor<br>ainer in ac                       | utiously<br>ue rinsir<br>n to fre<br>cordan  | y with w<br>ng.<br>esh air a<br>nce with | vater for se<br>and keep c                  | everal m<br>comforta<br>onal/ | ninutes.<br>able for | breathing | -<br>-<br> |          |                |
| P305+P351+P33<br>lenses, if present<br>P304+P340 IF IN<br>P405 Store locke<br>P501 Dispose of<br>national/international   | 38 IF IN<br>t and eas<br>NHALED<br>ed up.<br>contents<br>onal reg<br>ation   | EYES:<br>sy to do<br>: Remo<br>s/conta<br>ulations              | Rinse cau<br>o. Continu<br>ove person<br>ainer in act                      | utiously<br>ue rinsir<br>n to free<br>cordan | y with w<br>ng.<br>esh air a<br>nce with | vater for se<br>and keep c<br>n local/regio | everal m<br>comforta<br>onal/ | ninutes.<br>able for | breathing |            |          |                |
| P305+P351+P33<br>lenses, if present<br>P304+P340 IF IN<br>P405 Store locke<br>P501 Dispose of<br>national/internatio  | 38 IF IN<br>t and eas<br>NHALED<br>ed up.<br>contents<br>onal reg<br>ation   | EYES:<br>sy to do<br>: Remo<br>s/conta<br>ulations              | Rinse cau<br>o. Continu<br>ove person<br>ainer in act                      | utiously<br>ue rinsir<br>n to free<br>cordan | y with w<br>ng.<br>esh air a<br>nce with | vater for se<br>and keep c<br>n local/regio | everal m<br>comforta<br>onal/ | ninutes.<br>able for | breathing |            |          |                |
| P305+P351+P33<br>lenses, if present<br>P304+P340 IF IN<br>P405 Store locke<br>P501 Dispose of<br>national/international   | 38 IF IN<br>t and ea<br>NHALED<br>ed up.<br>content<br>onal reg<br>ation<br>erial cau                                      | EYES:<br>sy to do<br>Remo<br>s/conta<br>ulations                | Rinse cau<br>o. Continu<br>ove person<br>ainer in act<br>s.<br>her toxic e | utiously<br>ue rinsir<br>n to free<br>cordan | y with w<br>ng.<br>esh air a             | vater for se<br>and keep c                  | everal m<br>comforta<br>onal/ | ninutes.             | breathing |            |          |                |
| P305+P351+P33<br>lenses, if present<br>P304+P340 IF IN<br>P405 Store locke<br>P501 Dispose of<br>national/international<br>WHMIS classification   | 38 IF IN<br>t and eac<br>NHALED<br>ed up.<br>content<br>onal reg<br>ation<br>erial cau<br>stem                             | EYES:<br>sy to do<br>9: Remo<br>s/conta<br>ulations             | Rinse cau<br>o. Continu<br>ove person<br>ainer in act<br>s.<br>her toxic e | utiously<br>ue rinsir<br>n to fre<br>cordan  | y with w<br>ng.<br>esh air a<br>nce with | vater for se<br>and keep c                  | everal m<br>comforta          | ninutes.<br>able for | breathing |            |          | et<br>Et<br>et |
| P305+P351+P33<br>lenses, if present<br>P304+P340 IF IN<br>P405 Store locke<br>P501 Dispose of<br>national/international<br>WHMIS classification systems   | 38 IF IN<br>t and eas<br>NHALED<br>ed up.<br>contents<br>onal reg<br>ation<br>erial cau<br>stem<br>ale 0-4)                | EYES:<br>sy to do<br>Remo<br>s/conta<br>ulations                | Rinse cau<br>o. Continu<br>ove person<br>ainer in act<br>s.<br>her toxic e | utiously<br>ue rinsir<br>n to free<br>cordan | y with w<br>ng.<br>esh air a<br>nce with | vater for se<br>and keep c                  | everal m<br>comforta          | ninutes.<br>able for | breathing |            |          |                |
| P305+P351+P33<br>lenses, if present<br>P304+P340 IF IN<br>P405 Store locke<br>P501 Dispose of<br>national/international/<br>WHMIS classification<br>D2B - Toxic mate<br>Classification sys<br>HMIS ratings (sc<br>(Hazardous Mate<br>HEALTH | 38 IF IN<br>t and each<br>NHALED<br>ed up.<br>contents<br>onal reg<br>ation<br>erial cau<br>stem<br>ale 0-4)<br>erials Ide | EYES:<br>sy to do<br>b: Remo<br>s/conta<br>ulations<br>sing oth | Rinse cau<br>o. Continu<br>ove person<br>ainer in act<br>s.<br>her toxic e | utiously<br>ue rinsir<br>n to fre<br>cordan  | y with w<br>ng.<br>esh air a<br>nce with | vater for se<br>and keep c                  | everal m<br>comforta<br>onal/ | ninutes.             | breathing |            |          |                |
| P305+P351+P33<br>lenses, if present<br>P304+P340 IF IN<br>P405 Store locke<br>P501 Dispose of<br>national/international/<br>WHMIS classification<br>D2B - Toxic mate<br>Classification sys<br>HMIS ratings (sc<br>(Hazardous Mate<br>HEALTH | 38 IF IN<br>t and ease<br>NHALED<br>ed up.<br>contents<br>onal reg<br>ation<br>erial cau<br>stem<br>ale 0-4)<br>erials Ide | EYES:<br>sy to do<br>Remo<br>s/conta<br>ulations<br>sing oth    | Rinse cau<br>o. Continu<br>ove person<br>ainer in act<br>s.<br>her toxic e | utiously<br>ue rinsir<br>n to free<br>cordan | y with w<br>ng.<br>esh air a<br>nce with | vater for se                                | everal m<br>comforta<br>onal/ | ninutes.             | breathing |            |          |                |

|             |                     |         |     |          | 1 1 1    |          |            | 1 1 1       |    |            | 1 1 1    |            |     |
|-------------|---------------------|---------|-----|----------|----------|----------|------------|-------------|----|------------|----------|------------|-----|
| 1.          |                     |         | 1   |          | 1<br>1 1 | 1        |            | н<br>1 - 1  | 1  |            | н<br>н п |            |     |
| 0<br>1      | 1 - 1<br>1          |         | ÷., | н н<br>н | 1        |          |            | 1           |    |            |          | 14.<br>14. |     |
|             | (acute el           | ,       |     |          |          |          |            |             |    |            |          |            |     |
| Flamm       | nability = (        | D       |     |          |          |          | . '        | ,           |    | . '        | ,        |            | . ' |
| Physic      | al Hazaro           | d =, 1, |     |          |          |          |            |             |    |            |          |            |     |
| 1.1         | hazards<br>s of PBT |         |     | essment  | ÷.,      | 1.<br>1. | 1 1<br>1   | 1<br>1<br>1 | 14 |            | ÷.       | <b>`</b> . |     |
| PBT:<br>N/A |                     |         |     |          |          |          | , '<br>, ' | 1 1 1<br>1  |    | , '<br>, ' |          |            |     |
| vPvB:       |                     |         | 1   |          |          |          |            |             |    |            |          | `:<br>     |     |
| N/A         | 1 - 1<br>1          |         | ÷., | н н<br>н | Ξ.       |          |            |             |    | · · ·      | Ϊ.       | 1.<br>1.   |     |

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS Substances CAS No. / Substance Name: 12054-85-2 Ammonium molybdate (para) tetrahydrate Identification number(s): EC number: 234-320-9

#### SECTION 4. FIRST AID MEASURES

Description of first aid measures

If inhaled:

Supply patient with fresh air. If not breathing, provide artificial respiration. Keep patient warm.Seek immediate medical advice.

In case of skin contact:

Immediately wash with soap and water; rinse thoroughly.

| Seek immediate medica  | al advice.  | .'                                    |                             |                               |                         |          |          |     |          |     | , |
|--|---|---------------------------------------|-----------------------------|-------------------------------|-------------------------|----------|----------|-----|----------|-----|---|
| In case of eye contact:  |   |                                       |                             |                               |                         |          |          |     |          |     |   |
| Rinse opened eye for s   | everal mir  | nutes und                             | er runi                     | ning wa                       | ater. Cons              | ult a ph | iysician | •   |          |     |   |
| If swallowed:  |   |                                       |                             |                               |                         |          |          |     |          |     |   |
| Seek medical treatment   | t.  | .'                                    |                             | 1                             |                         |          |          |     |          |     | , |
| Information for doctor   | 1.<br>  | .'                                    |                             |                               |                         |          |          |     |          |     | , |
| Most important symptom   | ms and ef   | fects, bot                            | h acute                     | e and d                       | elayed                  |          | · .      |     | :        |     | , |
| No data available  |   |                                       |                             |                               | 1                       |          |          |     |          |     | , |
| Indication of any immed  | diate medi  | cal attent                            | ion an                      | d speci                       | al treatme              | ent need | ded      |     |          |     |   |
| No data available  | 1 1 1   |                                       |                             |                               | 1                       |          |          | 1   |          | 1 I | , |
|  | · .   |                                       |                             |                               |                         |          |          |     |          | · . | , |
|  |   |                                       |                             |                               |                         |          |          |     |          |     |   |
| SECTION 5. FI  | _   |                                       | _                           |                               |                         | 1.       | 14.<br>1 |     | 4,       |     |   |
| Extinguishing media  | · · · · ·   |                                       | _                           |                               |                         | 4.<br>11 |          |     |          |     |   |
|  | agents  |                                       | -<br>-<br>-<br>-            | :<br>                         |                         |          | · .      |     |          |     |   |
| Extinguishing media<br>Suitable extinguishing a  | agents<br>le. Use fir   | e-fighting                            | measu                       | ures tha                      | at suit the             | surroui  | nding fi | e.  | ,<br>, , | 1   |   |
| Extinguishing media<br>Suitable extinguishing a<br>Product is not flammabl   | agents<br>le. Use fire<br>from the                              | e-fighting<br>substanc                | measu<br>e or mi            | ures tha<br>ixture            | at suit the             | surroui  | nding fi | e.  | ,<br>, , | 1   |   |
| Extinguishing media<br>Suitable extinguishing a<br>Product is not flammabl<br>Special hazards arising  | agents<br>le. Use fir<br>from the<br>ed in a fire               | e-fighting<br>substanc<br>, the follo | measu<br>e or mi<br>wing ca | ures tha<br>ixture<br>an be r | at suit the<br>eleased: | surroui  | nding fi | re. |          |     |   |
| Extinguishing media<br>Suitable extinguishing a<br>Product is not flammabl<br>Special hazards arising<br>If this product is involve<br>Nitrogen oxides (NOx)   | agents<br>le. Use fire<br>from the<br>ed in a fire              | e-fighting<br>substanc<br>, the follo | measu<br>e or mi<br>wing ca | ures tha<br>ixture<br>an be r | at suit the<br>eleased: | surroui  | nding fi | re. |          |     |   |
| Extinguishing media<br>Suitable extinguishing a<br>Product is not flammabl<br>Special hazards arising<br>If this product is involve<br>Nitrogen oxides (NOx)<br>Metal oxide fume<br>Advice for firefighters                          | agents<br>le. Use fir<br>from the<br>d in a fire                | e-fighting<br>substanc<br>, the follo | measu<br>e or mi<br>wing ca | ures tha<br>ixture<br>an be r | at suit the<br>eleased: | surroui  | nding fi | re. |          |     |   |
| Extinguishing media<br>Suitable extinguishing a<br>Product is not flammabl<br>Special hazards arising<br>If this product is involve<br>Nitrogen oxides (NOx)<br>Metal oxide fume<br>Advice for firefighters                          | agents<br>le. Use fir<br>from the<br>d in a fire                | e-fighting<br>substanc<br>, the follo | measu<br>e or mi<br>wing ca | ures tha<br>ixture<br>an be r | at suit the<br>eleased: | surroui  | nding fi | re. |          |     |   |
| Extinguishing media<br>Suitable extinguishing a<br>Product is not flammabl<br>Special hazards arising<br>If this product is involve<br>Nitrogen oxides (NOx)<br>Metal oxide fume<br>Advice for firefighters                          | agents<br>le. Use fir<br>from the<br>d in a fire                | e-fighting<br>substanc<br>, the follo | measu<br>e or mi<br>wing ca | ures tha<br>ixture<br>an be r | at suit the<br>eleased: | surrou   | nding fi | e.  |          |     |   |
| Extinguishing media<br>Suitable extinguishing a<br>Product is not flammabl<br>Special hazards arising<br>If this product is involve<br>Nitrogen oxides (NOx)<br>Metal oxide fume<br>Advice for firefighters<br>Protective equipment: | agents<br>le. Use firo<br>from the<br>ed in a fire<br>spirator. | e-fighting<br>substanc<br>, the follo | measu<br>e or mi<br>wing ca | ures tha<br>ixture<br>an be r | at suit the<br>eleased: | surrou   | nding fi | re. |          |     |   |

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

| Environmental precautions:   |         | · .    |    |          |     |
|--|---------|--------|----|----------|-----|
| Do not allow material to be released to the environment without of |         |        |    |          |     |
| Do not allow product to enter drains, sewage systems, or other wa  | ater co | urses. | 1  | 11       |     |
| Do not allow material to penetrate the ground or soil.             |         |        |    |          |     |
| Methods and materials for containment and cleanup:                 |         | 1      |    | <br>     | . ' |
| Ensure adequate ventilation.                                       |         | ·      |    |          |     |
| Prevention of secondary hazards:                                   |         |        |    |          |     |
| No special measures required.                                      |         |        | 1  |          |     |
| Reference to other sections  |         |        |    |          |     |
| See Section 7 for information on safe handling                     |         |        | i. |          |     |
| See Section 8 for information on personal protection equipment.    |         |        |    | <br>1    |     |
| See Section 13 for disposal information.                           |         | · .    |    | 1.<br>1. |     |
|  |         |        |    |          |     |

| SECTION 7. HANDLING AND STORAGE                              | : · · | н<br>1 — 1 | , et        |          |          | . ' |
|--|-------|------------|-------------|----------|----------|-----|
|  | 1     | 5          |             |          | 1        | .1  |
| Precautions for safe handlingKeep container tightly sealed.  | 1     | ۰.         | н н<br>Н    |          | 1.<br>1. |     |
| Store in cool, dry place in tightly closed containers.       |       |            |             |          |          |     |
| Ensure good ventilation at the workplace.                    |       | 1<br>1 1   |             |          |          | .'  |
| Information about protection against explosions and fires:   |       |            |             |          |          |     |
| The product is not flammable                                 |       |            |             |          |          |     |
| Conditions for safe storage, including any incompatibilities | 1     |            |             |          | 14       |     |
| Requirements to be met by storerooms and receptacles:        |       |            |             |          |          |     |
| No special requirements.                                     |       | 1<br>1 1   |             |          |          | .'  |
| Information about storage in one common storage facility:    | 1     | `;         |             | 1        | · .      | . ' |
| Store away from oxidizing agents.                            |       |            |             |          |          |     |
| Further information about storage conditions:                | · .   | <b>'</b> . | н н<br>Н    | · .      | 1.       |     |
| Keep container tightly sealed.                               |       | 1          |             |          |          |     |
| Store in cool, dry conditions in well-sealed containers.     | ,     |            |             |          |          | . ' |
| Specific end use(s)  |       | 1          | ,<br>,<br>, | ,<br>, , | 1        | . ' |

| No | data | available |  |
|----|------|-----------|--|
|    |      |           |  |
|    |      | 1         |  |
|    |      |           |  |

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Additional information a  | bout de    | esign of tee | chnical              | system   | IS:        |         | 1        |            |       |          |
|---------------------------|------------|--------------|----------------------|----------|------------|---------|----------|------------|-------|----------|
| Properly operating chen   | nical fu   | me hood c    | lesigne              | d for ha | azardous o | chemica | als and  | having an  | avera | je       |
| face velocity of at least | 100 fee    | et per minu  | ite.                 |          |            |         |          |            |       |          |
| Control parameters        |            |              |                      |          |            |         |          |            | : * * |          |
| Components with limit v   |            |              |                      |          |            |         |          |            |       |          |
| None.                     |            |              |                      |          |            | 1       |          |            |       |          |
| Additional information:   | 1.<br>1.   | н н<br>н     |                      | 1.       | 1 - 1<br>1 | 1       | 1.       | 1 - 1<br>1 |       | 1.<br>1. |
| No data                   |            |              |                      |          |            |         |          |            |       |          |
| Exposure controls         |            |              | ; * *                |          |            |         |          |            | 111   |          |
| Personal protective equ   | ipment     | . '          |                      | ۰.       |            | ı       | · .      |            | ı     | · .      |
| Follow typical protective |            |              | actices <sup>-</sup> | for han  | dling chem | nicals. |          |            |       |          |
| Keep away from foodstu    | uffs, be   | verages a    | nd feed              | . '      | 1 I        | 1       |          |            | 1     | 14       |
| Remove all soiled and c   | contami    | nated clot   | hing im              | mediat   | ely.       |         |          |            |       |          |
| Wash hands before bre     | aks and    | d at the en  | d of wo              | ork.     |            |         |          |            | 111   |          |
| Avoid contact with the e  | yes an     | d skin.      |                      | ·        |            |         | · .      |            |       | 1        |
| Maintain an ergonomica    | ally app   | ropriate w   | orking               |          |            |         |          |            |       |          |
| Breathing equipment:      | · .        |              |                      | 1        |            | 1       | 1.       | 1          | 1     | 1        |
| Use suitable respirator   |            |              |                      |          |            |         |          |            |       |          |
| Protection of hands:      |            |              |                      |          | ,          |         |          |            |       |          |
| Impervious gloves         |            |              | ,<br>, ,             | `:       |            |         | 1        |            |       | 1        |
| Inspect gloves prior to u | ise.       |              | 1                    | ·        |            |         | · .      | 1 - 1      | :     | · .      |
| Suitability of gloves sho |            |              |                      |          |            |         |          |            |       |          |
| by<br>manufacturer.       | н<br>1. т. |              |                      |          |            |         |          |            |       |          |
| Penetration time of glov  | e mate     | rial (in mir | utes)                | `:<br>`: |            |         | `:<br>`: |            |       | 1        |

| No data available                            | `: |       |         | ,<br>, , |            |     |    | 1       |
|--|----|-------|---------|----------|------------|-----|----|---------|
| Eye protection:<br>Safety glasses            |    | <br>1 | 5.<br>1 |          | 14.<br>14. | ; * | ÷. | 5.<br>1 |
| Body protection:<br>Protective work clothing |    |       |         | 1        | :          |     | :  | : .     |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Information on basic phy       | sical ar | nd chemic   | al prop    | ertiesA  | ppearance | e:         |            |     |            |            |   |
|--------------------------------|----------|-------------|------------|----------|-----------|------------|------------|-----|------------|------------|---|
| Form: Powder                   |          |             |            |          |           |            |            |     |            |            |   |
| Color: White to pale gree      | en       |             |            |          |           |            |            |     |            |            |   |
| Odor: No data available        | 1.<br>1. |             | 1          | · .      | н н<br>н  | 1          | 1.<br>1.   |     | 1          |            |   |
| Odor threshold: No data        | availab  | le.         |            |          |           |            |            |     |            |            |   |
| pH: N/A                        |          |             | 1 1 1<br>1 | 1<br>1 1 |           | 1<br>1     | н<br>1 - 1 |     | 1 1 1<br>1 | н<br>1 - 1 |   |
| Melting point/Melting ran      | ge:≈19   | 0 °C (≈37   | 4 °F) (d   | ec)      |           |            |            |     |            |            |   |
| Boiling point/Boiling rang     | je: No d | lata availa | able       |          | . '       |            |            |     |            |            | , |
| Sublimation temperature        | / start: | No data a   | availabl   | e        | 1 I       | 1.         | 14.<br>1   | 1 I | 1.         | 14         |   |
| Flammability (solid, gas)      |          |             |            |          |           |            |            |     |            |            |   |
| No data available.             | н<br>н н |             |            | 1        |           |            | 1<br>1 - 1 |     |            | н<br>н н   |   |
| Ignition temperature: No       | data av  | ailable     |            |          |           |            | · .        |     |            |            | , |
| Decomposition temperat         | ure: No  |             | ilable     |          |           |            |            |     |            |            |   |
| Autoignition: No data ava      | ailable. |             |            | · · .    |           |            |            |     | 1          |            |   |
| Danger of explosion: No        |          |             |            |          |           |            |            |     |            |            |   |
| Explosion limits:              |          |             |            |          |           |            |            |     |            |            |   |
| Lower: No data available       | <b>;</b> |             |            |          |           |            |            |     |            |            | , |
| Upper: No data available       | <b>;</b> |             |            |          |           |            |            |     |            | · .        | , |
| Vapor pressure: N/A            |          |             | ·          |          | 1         | ı          |            |     |            |            |   |
| Density at 20 °C (68 °F):<br>3 | 2.498 (  | g/cm        | 1 1 1<br>1 |          |           | 1 1 1<br>1 |            |     |            |            | , |
| (20.846 lbs/gal)               |          |             |            |          |           |            | 1          |     |            | 1          | , |

| 1 I I                              |          |          | 1           |          |          |            |           |     | 1        |     |          |     |
|------------------------------------|----------|----------|-------------|----------|----------|------------|-----------|-----|----------|-----|----------|-----|
| Relative density                   |          |          |             |          |          |            |           |     |          |     |          |     |
| No data available.                 |          |          |             |          |          |            |           |     |          |     |          |     |
| Vapor density                      |          |          |             | 1        |          | н н<br>н   | 1         | 1.  |          |     |          |     |
| N/A                                |          |          |             |          |          |            |           |     |          |     |          |     |
| Evaporation rate                   |          |          |             | 1        |          |            |           |     |          |     |          | . ' |
| N/A                                |          |          |             |          | 1        |            |           | · . |          |     |          | . • |
| Solubility in / Misci              | bility w | ith Wa   | ter at 20 ° | C (68 °  | °F): 430 | ) g/l      |           |     |          |     |          |     |
| Partition coefficien               | t (n-oci | tanol/w  | /ater): No  | data av  | vailable | •<br>•     |           | · · |          | · . | · .      | ,   |
| Viscosity:                         |          |          | . '         |          |          |            |           |     |          |     |          |     |
| Dynamic: N/A                       |          |          |             |          |          | ,          |           |     |          |     |          |     |
| Kinematic: N/A                     |          |          |             | 1        |          |            |           |     |          |     |          | . ' |
| Other information                  | 1        | ۰.       |             |          | · .      | 1 - 1<br>1 |           | ·   |          | 1   | 1.       |     |
| No data available                  |          |          |             |          |          |            |           |     |          |     |          |     |
|                                    |          |          |             |          |          |            |           |     |          | ;   |          | . • |
| SECTION 1                          | 0. ST    | ABI      |             | ND       | REA      |            | ΓY        |     |          |     |          |     |
| Reactivity                         | 1        | '.<br>'. |             | 1        | · .      |            | ÷.,       |     | 1 I      | ÷., | 1.<br>1. |     |
| No data available                  |          |          |             |          |          |            |           |     |          |     |          |     |
| Chemical stability                 |          |          |             | 1 1 1    |          |            |           |     |          |     |          | . • |
| Stable under recor                 | nmend    | led sto  | rage cond   | litions. |          |            |           |     |          |     |          |     |
| Thermal decompos                   | sition / | condit   | ions to be  | avoide   | ed:      |            |           |     |          |     |          |     |
| Decomposition will                 | not oc   | cur if u | used and    | stored   | accordi  | ng to spec | cificatio | ns. |          | 1   | 1.       |     |
| Possibility of hazar               | rdous r  | eactior  | าร          |          |          |            |           |     |          |     |          |     |
| No dangerous read                  | ctions k | known    |             |          |          |            |           |     |          |     |          | . ' |
| Conditions to avoid                | d j      |          |             |          |          |            |           | 1   |          |     |          | . • |
| No data available                  | 1.       | · .      | н н<br>н    |          | 1.<br>1. | н н<br>н   | ÷.,       |     | н н<br>н | :   |          |     |
| Incompatible mate                  | rials:   |          |             |          |          |            |           |     |          |     |          |     |
| Oxidizing agents                   | _        |          |             | ; • •    |          |            |           |     |          | ;** |          | . • |
| Hazardous decom<br>Nitrogen oxides |          |          |             |          |          |            |           |     |          |     |          |     |
| Nitrogen oxides                    |          | 1        | . '         |          | 1        | 11 C       | 1 I       |     |          |     |          | . ' |

| Metal oxide fume       |               |            |          |          |            |            |           |            |          |    |
|------------------------|---------------|------------|----------|----------|------------|------------|-----------|------------|----------|----|
|                        |               | н н<br>н   | 1        |          | н н<br>Н   | 1          | 1.<br>1.  | 1 - 1<br>1 | 1        | 1  |
| <b>SECTION 11</b>      | . TOX         |            | )GIC/    | AL IN    | IFORI      | ΜΑΤΙΟ      | ON        |            |          |    |
| Information on toxic   | ological e    | effects    |          |          |            |            |           |            | : • •    |    |
| Acute toxicity:        |               |            |          |          |            |            |           |            |          |    |
| The following RTEC     | S statem      | ent/stater | ments re | fer to t | he anhyd   | rous con   | npound    | :          |          |    |
| The Registry of Tox    | ic Effects    | of Chem    | ical Sub | stances  | s (RTECS   | S) contai  | ns acut   | e toxicity | data for |    |
| components in this     | product.      |            |          | ,        |            |            | ı         |            |          |    |
| LD/LC50 values tha     | t are relev   |            |          |          | . '        |            |           |            |          |    |
| No data                |               |            |          |          |            |            |           |            |          | 1  |
| Skin irritation or cor | rosion:       | 1 - 1<br>1 | ÷.,      | · .      | 1 - 1<br>1 | 1          | ۰.        |            |          | ÷. |
| Causes skin irritatio  |               |            |          |          |            |            |           |            |          |    |
| Eye irritation or corr | osion:        |            | ; • •    |          |            |            |           |            | ;**      |    |
| Causes serious eye     |               |            |          |          |            |            |           |            |          |    |
| Sensitization:         |               |            | 1        |          |            |            | 1         | . 1        |          | 1  |
| No sensitizing effect  | ts known.     | н н<br>н   | 1        | 1.       | 1 - 1<br>1 | 1          |           | н н<br>н   |          | 1. |
| Germ cell mutageni     | city:         |            |          |          |            |            |           |            |          |    |
| No effects known.      | · · ·         |            |          |          |            | 111        |           |            | 111      |    |
| Carcinogenicity:       |               |            |          |          |            |            |           |            | . :      |    |
| No classification dat  | ta on carc    | cinogenic  | properti | es of th | is materi  | al is ava  | ilable fr | om the E   | epa, Iar | С, |
| NTP, OSHA or ACC       | SIH.          |            | ÷.,      | <u>с</u> |            | 1          |           |            |          |    |
| Reproductive toxicit   |               |            |          |          |            |            |           |            |          |    |
| No effects known.      |               |            |          |          |            |            |           |            |          |    |
| Specific target orga   | n system      | toxicity - | repeated | d expos  | sure:      |            |           |            |          | 1  |
| No effects known.      |               |            | ;        | · .      |            | ;          | · .       |            | ;        |    |
| Specific target orga   |               |            |          |          |            |            | ı         |            |          |    |
| May cause respirato    | pry irritatio | on.        |          |          |            | :          | 1         |            |          |    |
| Aspiration hazard:     |               |            |          |          |            |            |           |            |          |    |
| No effects known.      |               |            |          |          |            | н<br>1 — 1 |           |            |          |    |
|                        |               |            |          |          |            |            |           |            |          |    |

Subacute to chronic toxicity:

The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for

this substance.

Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

## **SECTION 12. ECOLOGICAL INFORMATION**

| Toxicity                               |         |          |             |          |            | 11        |           |            |            | : • •   |          |
|--|---------|----------|-------------|----------|------------|-----------|-----------|------------|------------|---------|----------|
| Aquatic toxicity:                      |         |          |             | 1        |            |           | 1         |            |            |         |          |
| No data available                      |         |          | н н<br>н    | 1        |            | · ·       |           |            | н н<br>н   |         |          |
| Persistence and d<br>No data available | -       | -        |             | ;        | · .        |           |           |            |            |         |          |
| Bioaccumulative p                      |         |          |             |          |            |           |           |            |            |         |          |
| No data available                      |         |          |             |          |            |           |           |            |            |         |          |
| Mobility in soil                       | 1       | с.<br>С. | 1 I         | 1        |            | 1 I       |           | 1.<br>1.   | 1 - 1<br>1 |         | 1.<br>1. |
| No data available                      |         |          |             |          |            |           |           |            |            |         |          |
| Additional ecologi                     | cal inf | ormatic  | n:          |          | н<br>1 — 1 |           |           |            |            | : • •   |          |
| Do not allow mate                      | rial to | be rele  | eased to th | e envir  | onment     | without o | fficial p | ermits.    |            |         |          |
| Do not allow undil                     | uted p  | roduct   | or large q  | uantitie | s to rea   | ch ground | lwater,   | water o    | courses, o | r sewag | ge       |
| systems.                               | :       | 1.<br>1. | 1 I         | 1        | 1.<br>1.   | 1 I       | 1         | 1.<br>1.   | н н<br>н   | 1.      | 1.<br>1. |
| Avoid transfer into                    | the e   | nvironr  | nent.       |          |            |           |           |            |            |         |          |
| Results of PBT an                      | id vPv  | Basse    | ssmentPB    | Т:       | н<br>1 — 1 |           | ; * *     |            |            |         | :        |
| N/A<br>vPvB:                           |         | `:       | al an       |          |            |           |           |            |            |         | 1        |
| N/A                                    | ÷.,     | 1.       | 1 1<br>1    | 1        | 1.<br>1.   | 1 1<br>1  | ÷.,       |            | н н<br>н   | 1       | 1.       |
| Other adverse effe                     |         |          |             |          |            |           |           |            |            |         |          |
| No data available                      |         |          |             |          |            |           |           | н<br>1 - 1 |            |         |          |

| SECTION 13<br>Waste treatment me        |              |              |             |          |            |         |          |          |          |          |     |
|---|--------------|--------------|-------------|----------|------------|---------|----------|----------|----------|----------|-----|
| Recommendation                          |              |              |             |          |            |         |          |          |          |          |     |
| Consult official regu                   | lations to e | ensure p     | proper dis  | sposal.  |            |         |          |          |          |          | . ' |
| Uncleaned packagir                      |              |              |             |          |            |         |          |          |          |          |     |
| Recommendation:<br>Disposal must be m   | ade accor    | ding to c    | official re | gulatior | าร.        | 4,      | 14.<br>1 |          | ÷.,      | 14.<br>1 | :   |
|   | · · ·        |              | :           |          |            | : "     |          |          | 111      |          | . ' |
| SECTION 14                              | . TRAN       | ISPO         |             | IFOR     | RMAT       | ION     | 1        |          | . 1      | 1        | . ' |
| UN-Number<br>DOT, ADN, IMDG, I          |              |              | 4,          |          | : *        | 4,      |          |          | ١.       |          |     |
| N/A                                     |              |              | ; • •       | 1        |            |         |          |          |          |          |     |
| UN proper shipping<br>DOT, ADN, IMDG, I | name<br>ATA  |              |             | 1        |            |         | · :      | al a     | ,<br>, , | · :      | . ' |
| N/A                                     |              | н н<br>Н     | 1           |          | · · ·      | 1       | 1.<br>1. |          |          | 1.<br>1. |     |
| Transport hazard cla                    | ass(es)      |              |             |          |            |         |          |          |          |          |     |
| DOT, ADR, ADN, IN                       | IDG, IATA    | , '<br>. , ' |             | 1<br>1 1 |            |         |          |          |          | 1<br>1 1 | . ' |
| Class<br>N/A                            |              |              |             |          |            |         |          |          |          |          |     |
| Packing group                           | · · · · ·    | 1            | 1           |          | · · ·      | 1       | 1.<br>1. |          | ÷.,      | 1.<br>1. |     |
| DOT, IMDG, IATA                         |              |              |             |          |            |         |          |          |          |          |     |
| N/A                                     |              |              | 111         | 1        |            | 111     | 1        |          | 111      | 1<br>1 1 | . ' |
| Environmental haza                      | rds:         |              |             |          |            |         |          |          |          |          |     |
| N/A<br>Special precautions              | for user     |              | 1           | 1.<br>1. | 1 - 1<br>1 | ÷.,     | 1.<br>1. | 1 1<br>1 | ι.       | 1.<br>1. |     |
| N/A                                     |              |              | :           | 1        |            |         | 1        |          | 111      | 1        |     |
| Transport in bulk ac                    | cording to   | Annex        | I of MAR    | RPOL73   | 8/78 and   | the IBC | Code     |          |          |          |     |
| N/A                                     |              |              |             |          |            |         |          |          |          |          | . ' |
|   |              |              |             |          |            |         |          |          |          |          |     |

|  |           | 1         |           |            |          |           |           |      |
|--|-----------|-----------|-----------|------------|----------|-----------|-----------|------|
| Transport/Additional information:              | ,<br>, ,  | 1         |           |            |          |           |           | · :  |
| DOT  | :         |           |           | 1          | · .      |           | :         | ÷.,  |
| Marine Pollutant (DOT):                        |           |           | ı         | ,          |          |           |           |      |
| No<br>1 Anna Anna Anna Anna Anna Anna Anna Ann | : ' '     |           |           |            |          |           |           | :    |
|  |           | · .       |           | ,          | · .      |           |           |      |
| SECTION 15. REGULATO                           |           |           |           |            | ,        | ,         |           |      |
| Safety, health and environmental regula        | ations/le | edislatio | on specif | ic for the | substa   | nce or m  | nixture   | 11   |
| National regulations                           |           | -         | -         |            |          |           | intere    |      |
| All components of this product are listed      |           |           | nvironme  |            |          |           | Toxic     |      |
| Substances Control Act Chemical subs           |           |           |           |            |          | Ageney    | TOXIC     |      |
| All components of this product are listed      |           |           | -         | -Domest    | ic Suba  | tances I  | iet (NDS  | 9 Y. |
| SARA Section 313 (specific toxic chem          | ,         | ,         |           |            |          |           |           | ∟).  |
|  |           |           |           |            |          |           |           |      |
|  |           |           |           |            |          |           |           |      |
| Prop 65 - Chemicals known to cause ca          | ancer     |           |           | 1<br>1 - 1 | 1        |           |           | 1    |
| Substance is not listed.                       |           |           |           | :          |          |           | ÷.,       |      |
|  |           |           | ı         | 1          | I        | ,         | ,         |      |
| Substance is not listed.                       |           |           |           |            | ,        |           |           |      |
| Prop 65 - Developmental toxicity, femal        | е         |           | . '       | ,          |          | .'        | ,         |      |
|  |           |           |           | 1<br>1 - 1 | 1        |           |           | 1    |
| Prop 65 - Developmental toxicity, male         | :         | · .       |           | :          | · .      |           | :         | · .  |
| Substance is not listed.                       |           |           | ı         | ,          |          |           |           |      |
| Information about limitation of use:           |           |           |           |            |          |           |           |      |
| For use only by technically qualified ind      | ividuals  | S         | 1         |            |          | 1         |           |      |
| Other regulations, limitations and prohib      | oitive re | gulatio   | ns        |            | 1        |           |           | 1    |
| Substance of Very High Concern (SVH            | C) acco   | ording to | o the RE  | ACH Re     | gulatior | is (EC) N | lo. 1907/ | 2006 |
| Substance is not listed.                       | ,         | ,         | ı         | ,          |          |           |           |      |
| The conditions of restrictions according       | to Artic  | cle 67 a  | Ind Anne  | x XVII of  | the Re   | gulation  | (EC) No   |      |
| 1907/2006 (REACH) for the manufactur           | ring, pla | acing o   | n the ma  | rket and   | use mu   | ist be ob | served.   |      |
| Substance is not listed.                       |           |           |           |            | 1        |           |           | 1    |

| Annex XIV of the REACH Regulations (requiring Authorisation for use) |   |  |          |   |   |            |   |    |  |  |  |  |
|--|---|--|----------|---|---|------------|---|----|--|--|--|--|
| Substance is not listed.   |   |  |          |   |   |            |   |    |  |  |  |  |
| REACH - Pre-registered substances                                    |   |  | н н<br>Н | 1 |   | н — н<br>н | 1 | 14 |  |  |  |  |
| Substance is listed.<br>Chemical safety assessment:                  | : |  |          | : |   |            | : |    |  |  |  |  |
| A Chemical Safety Assessment has no                                  |   |  |          |   | 1 |            |   |    |  |  |  |  |

### **SECTION 16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

|    |          |          |          | `:         |          |       | `:<br>`: |                  | 1<br>1 - 1 |          |     |            |          |     |
|----|----------|----------|----------|------------|----------|-------|----------|------------------|------------|----------|-----|------------|----------|-----|
| 1. | 14.<br>1 |          | ÷.       | 14         | н н<br>н | 4     |          |                  | 1          |          |     | 1          | 1.<br>1. |     |
|    |          | . '      |          |            |          |       |          |                  | 1 1 1<br>1 |          |     | 1 1 1<br>1 |          |     |
|    |          |          |          | `:         |          |       |          |                  |            |          |     |            |          |     |
| 1. | 14.<br>1 |          | Ξ.       | ÷.,        |          | ÷,    | 14       |                  | Ξ.         | 14       |     | Ξ.         |          | 8   |
|    |          |          |          | 1<br>1 - 1 |          |       |          |                  | 1 1 1<br>1 |          |     |            |          | .'  |
|    |          |          | 1<br>1 1 |            |          |       | 1        |                  |            | 1        |     |            | 1        | . 1 |
| 1. |          | н н<br>н | 1,       |            |          | ÷.    | Ч.,      |                  | ÷.,        | ۰.<br>۱  |     | ÷.         | 1.<br>1. |     |
|    |          |          |          | :<br>      |          | ; · · | 1<br>1 1 |                  |            | 1<br>1 1 |     |            |          | . ' |
|    |          |          |          | 1          |          |       | 1        | , . <sup>1</sup> |            |          |     |            | 1        |     |
|    |          |          |          | 1          | 1 1      |       | 1        | 1 1              |            | 1        | 1 1 | 1          |          |     |