

|                                                                                   |                          |                         |
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Substance  
Trade name : DAP  
  
Chemical name : Reaction mass of ammonium dihydrogenorthophosphate and diammonium hydrogenorthophosphate  
EC-No. : 913-888-8  
CAS-No. : -  
REACH registration No : 01-2119552436-37-xxxx  
Product group : Trade product

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use  
Use of the substance/mixture : Fertilizer  
Fire extinguishing agent  
Production : paper  
Fabric  
tiles and ceramics  
Processing aid  
Food

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

OCP Group and its Affiliates  
2-4, Rue Al Abtal, Hay Erraha, 20200, Casablanca  
5196 BP Maârif - Morocco  
T +212 5 22 23.00.25 - F +212 5 22 99 83 95  
[S.BARK@ocpgroup.ma](mailto:S.BARK@ocpgroup.ma)

#### Only Representative

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[d.peters@chemservice-group.com](mailto:d.peters@chemservice-group.com) - [www.chemservice-group.com](http://www.chemservice-group.com)

### 1.4. Emergency telephone number

Emergency number : +212 522 23 04 24  
Only available during office hours.

|                                                                                   |                          |  |                         |
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| Country | Official advisory body                                   | Address                                  | Emergency number                                                                                      |
|---------|----------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Ireland | National Poisons Information Centre<br>Beaumont Hospital | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>(Healthcare<br>professionals-24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Not applicable.

### 2.3. Other hazards

Other hazards : Results of PBT and vPvB assessment : Not applicable. The study does not need to be conducted because the substance is inorganic.

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance name : DAP  
CAS-No. : -  
EC-No. : 913-888-8

| Substance name                                                                           | Product identifier                                                            | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------|-----------------------------------------------------------------|
| Reaction mass of ammonium dihydrogenorthophosphate and diammonium hydrogenorthophosphate | (CAS-No.) -<br>(EC-No.) 913-888-8<br>(REACH-no) 01-2119552436-37-xxxx         | 90 – 95 | Not classified                                                  |
| Ammonium sulphate                                                                        | (CAS-No.) 7783-20-2<br>(EC-No.) 231-984-1<br>(REACH-no) 01-2119455044-46-0156 | 5 – 10  | Not classified                                                  |

Full text of H- and EUH-statements: see section 16

### 3.2. Mixtures

Not applicable

|                                                                                   |                          |                         |
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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                   |                                                                                                                                                                                                                                                                                                        |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Additional advice | : First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance. |
| Inhalation        | : Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.                                                                                                                                                                         |
| Skin contact      | : Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician. Wash contaminated clothing before reuse.                                                                                                                                             |
| Eyes contact      | : Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of doubt or persistent symptoms, consult always a physician.                                                                                          |
| Ingestion         | : Rinse mouth thoroughly with water. Drink plenty of water. Do not induce vomiting. Get medical advice/attention.                                                                                                                                                                                      |

### 4.2. Most important symptoms and effects, both acute and delayed

|              |                                                                            |
|--------------|----------------------------------------------------------------------------|
| Inhalation   | : Inhalation of dust may cause irritation of the respiratory system.       |
| Skin contact | : Contact with dust may cause mechanical irritation or drying of the skin. |
| Eyes contact | : Dust may cause painful eye irritation and tearing.                       |
| Ingestion    | : Ingestion may cause nausea and vomiting. Gastrointestinal complaints.    |

### 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   | : carbon dioxide (CO <sub>2</sub> ), powder, alcohol-resistant foam, water spray. |
| Unsuitable extinguishing media | : Strong water jet.                                                               |

### 5.2. Special hazards arising from the substance or mixture

|                                                  |                                                |
|--------------------------------------------------|------------------------------------------------|
| Specific hazards                                 | : Not flammable. Hygroscopic.                  |
| Hazardous decomposition products in case of fire | : Phosphorus oxides. Nitrogen oxides. Ammonia. |

### 5.3. Advice for firefighters

|                                |                                                                                                                                                                                                                                                      |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment. Avoid dust formation. Knock down/dilute dust cloud with water spray. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.                                                                                                                                           |
| Other information              | : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.                                                                                                           |

|                                                                                   |                          |                         |
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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

For non-emergency personnel : Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe dust. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools.

#### 6.1.2. For emergency responders

For emergency responders : Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Dam up the solid spill. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Large spills: scoop solid spill into closing containers. This material and its container must be disposed of in a safe way, and as per local legislation. Avoid dust formation. Knock down/dilute dust cloud with water spray.

### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe dust. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Avoid dust formation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools.

Hygiene measures : Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Avoid dust formation. Protect from moisture.

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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Packaging materials : Keep only in the original container.

### 7.3. Specific end use(s)

Reference to other sections : 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Ammonium sulphate (7783-20-2) |         |                                                             |
|-------------------------------|---------|-------------------------------------------------------------|
| Bulgaria                      | OEL TWA | 10 mg/m <sup>3</sup>                                        |
| Latvia                        | OEL TWA | 0,02 mg/m <sup>3</sup> (hydrate (Ammonium chromum sulfate)) |

| DAP (-)                                  |                           |
|------------------------------------------|---------------------------|
| DNEL/DMEL (workers)                      |                           |
| Long-term - systemic effects, dermal     | 34,7 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 6,1 mg/m <sup>3</sup>     |
| DNEL/DMEL (general population)           |                           |
| Long-term - systemic effects, oral       | 2,1 mg/kg bodyweight/day  |
| Long-term - systemic effects, inhalation | 1,8 mg/m <sup>3</sup>     |
| Long-term - systemic effects, dermal     | 20,8 mg/kg bodyweight/day |
| PNEC (water)                             |                           |
| PNEC aqua (freshwater)                   | 1,7 mg/l                  |
| PNEC aqua (marine water)                 | 170 µg/L                  |
| PNEC aqua (intermittent, freshwater)     | 17 mg/l                   |
| PNEC (STP)                               |                           |
| PNEC sewage treatment plant              | 10 mg/kg                  |

Additional information : Recommended monitoring procedures. Personal air monitoring. Room air monitoring

### 8.2. Exposure controls

Engineering measure(s) : Provide adequate ventilation. Organisational measures to prevent /limit releases, dispersion and exposure. See Section 7 for information on safe handling . Apply measures to prevent dust explosions. Ensure equipment is adequately earthed.

Personal protective equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hand protection                 | : Not required for normal conditions of use. In case of repeated or prolonged exposure : Wear suitable gloves resistant to chemical penetration (EN 374). Polyvinylchloride (PVC). Thickness : > 0,3 mm. Breakthrough time : > 480'. The exact break through time can be obtained from the protective glove producer and this has to be observed. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. |
| Eye protection                  | : Wear eye protection. Dust protection eye glasses (EN 166). Safety glasses with side-shields                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Body protection                 | : Wear suitable protective clothing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Respiratory protection          | : Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment. Effective dust mask. Filter type: P (EN 14387)                                                                                                                                                                                                                                                                                                                                                        |
| Thermal hazard protection       | : Not required for normal conditions of use. Use dedicated equipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Environmental exposure controls | : Avoid release to the environment. Comply with applicable Community environmental protection legislation.                                                                                                                                                                                                                                                                                                                                                                                                                   |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                            |                                                                                                                |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Physical state                             | : Solid                                                                                                        |
| Appearance                                 | : Granulate.                                                                                                   |
| Molecular weight                           | : (NH <sub>4</sub> )H <sub>2</sub> PO <sub>4</sub> & (NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub> Variable |
| Colour                                     | : Black or brown.                                                                                              |
| Odour                                      | : odourless.                                                                                                   |
| Odour threshold                            | : No data available                                                                                            |
| pH                                         | : 7 – 8 (10%)                                                                                                  |
| pH solution                                | : Not available                                                                                                |
| Relative evaporation rate (butylacetate=1) | : No data available                                                                                            |
| Melting / freezing point                   | : > 150 °C Decomposes before melting                                                                           |
| Freezing point                             | : No data available                                                                                            |
| Initial boiling point and boiling range    | : Not applicable                                                                                               |
| Flash point                                | : Not applicable                                                                                               |
| Auto-ignition temperature                  | : Not applicable                                                                                               |
| Decomposition temperature                  | : > 100 °C                                                                                                     |
| Flammability                               | : Not flammable                                                                                                |
| Vapour pressure                            | : < 1 hPa (20°C)                                                                                               |
| Vapour density                             | : Not applicable                                                                                               |
| Relative density                           | : No data available                                                                                            |
| Density                                    | : Bulk density                                                                                                 |
| Solubility                                 | : Water: 400 g/l (20°C)                                                                                        |
| Partition coefficient n-octanol/water      | : No data available                                                                                            |
| Kinematic viscosity                        | : Not applicable                                                                                               |
| Dynamic viscosity                          | : Not applicable                                                                                               |

|                                                                                   |                          |                         |
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|                                |                                                                                                                                                                                     |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Explosive properties           | : Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.                        |
| Oxidising properties           | : Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties. |
| Explosive limits               | : Not applicable                                                                                                                                                                    |
| Particle size                  | : Not available                                                                                                                                                                     |
| Particle size distribution     | : Not available                                                                                                                                                                     |
| Particle shape                 | : Not available                                                                                                                                                                     |
| Particle aspect ratio          | : Not available                                                                                                                                                                     |
| Particle aggregation state     | : Not available                                                                                                                                                                     |
| Particle agglomeration state   | : Not available                                                                                                                                                                     |
| Particle specific surface area | : Not available                                                                                                                                                                     |
| Particle dustiness             | : Not available                                                                                                                                                                     |

## 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

### 9.2.2. Other safety characteristics

Additional information : inorganic

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None under normal conditions. Reference to other sections 10.4 & 10.5.

### 10.2. Chemical stability

Stable under normal conditions. Hygroscopic.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid dust formation. Prevent moisture contact. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. See Section 7 for information on safe handling.

### 10.5. Incompatible materials

Strong acids, strong oxidants. Copper alloys. Alkali. Sodium hypochlorite. See Section 7 for information on safe handling.

### 10.6. Hazardous decomposition products

Reference to other sections 5.2.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)



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|                        |                              |
|------------------------|------------------------------|
| LD50/oral/rat          | 2840 mg/kg                   |
| LD50/dermal/rat        | > 2000 mg/kg                 |
| LD50/dermal/rabbit     | > 2000 mg/kg                 |
| LC50/inhalation/4h/rat | (8h)> 1000 mg/m <sup>3</sup> |

|                                   |                                                                                                        |
|-----------------------------------|--------------------------------------------------------------------------------------------------------|
| Skin corrosion/irritation         | : Not classified (Based on available data, the classification criteria are not met)<br>pH: 7 – 8 (10%) |
| Serious eye damage/irritation     | : Not classified (Based on available data, the classification criteria are not met)<br>pH: 7 – 8 (10%) |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met)                    |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met)                    |
| Carcinogenicity                   | : Not classified (Based on available data, the classification criteria are not met)                    |
| Reproductive toxicity             | : Not classified (Based on available data, the classification criteria are not met)                    |
| STOT-single exposure              | : Not classified (Based on available data, the classification criteria are not met)                    |
| STOT-repeated exposure            | : Not classified (Based on available data, the classification criteria are not met)                    |
| Aspiration hazard                 | : Not classified (Based on available data, the classification criteria are not met)                    |

## DAP (-)

|                     |                |
|---------------------|----------------|
| Kinematic viscosity | Not applicable |
|---------------------|----------------|

|                   |                                                                                                                           |
|-------------------|---------------------------------------------------------------------------------------------------------------------------|
| Other information | : Symptoms related to the physical, chemical and toxicological characteristics.<br>For further information see section 4. |
|-------------------|---------------------------------------------------------------------------------------------------------------------------|

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

|                                                                  |                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Adverse health effects caused by endocrine disrupting properties | : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |
|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 11.2.2 Other information

|                   |                                                                                                                       |
|-------------------|-----------------------------------------------------------------------------------------------------------------------|
| Other information | : Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4 |
|-------------------|-----------------------------------------------------------------------------------------------------------------------|

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                                           |                         |
|-----------------------------------------------------------|-------------------------|
| Environmental properties                                  | : Not classified (CLP). |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified        |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified        |

## Ammonium sulphate (7783-20-2)

|                 |                |
|-----------------|----------------|
| LC50 - Fish [1] | 53 mg/l (96 h) |
|-----------------|----------------|



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| LC50 - Fish [2]        | 480 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [flow-through]) |
| EC50 - Crustacea [1]   | 169 mg/l ( Daphnia magna )                                                 |
| ErC50 algae            | 2700 mg/l                                                                  |
| NOEC chronic fish      | 5,29 mg/l                                                                  |
| NOEC chronic crustacea | 3,12 mg/l                                                                  |

### 12.2. Persistence and degradability

#### DAP (-)

|                               |                                                                                             |
|-------------------------------|---------------------------------------------------------------------------------------------|
| Persistence and degradability | Not applicable. The study does not need to be conducted because the substance is inorganic. |
|-------------------------------|---------------------------------------------------------------------------------------------|

#### Ammonium sulphate (7783-20-2)

|                               |            |
|-------------------------------|------------|
| Persistence and degradability | inorganic. |
|-------------------------------|------------|

### 12.3. Bioaccumulative potential

#### DAP (-)

|                                       |                              |
|---------------------------------------|------------------------------|
| Partition coefficient n-octanol/water | No data available            |
| Bioaccumulative potential             | There is no bioaccumulation. |

#### Ammonium sulphate (7783-20-2)

|                                       |                 |
|---------------------------------------|-----------------|
| Partition coefficient n-octanol/water | -5,1 (at 25 °C) |
| Bioaccumulative potential             | inorganic.      |

### 12.4. Mobility in soil

#### DAP (-)

|                  |                   |
|------------------|-------------------|
| Mobility in soil | No data available |
| Ecology - soil   | Not applicable.   |

### 12.5. Results of PBT and vPvB assessment

#### DAP (-)

|                           |                |
|---------------------------|----------------|
| Results of PBT assessment | Not applicable |
|---------------------------|----------------|

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

### 12.7. Other adverse effects

Other adverse effects : No data available

|                                                                                   |                          |                         |
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself.

Additional information

: Dispose of contaminated materials in accordance with current regulations.

European waste catalogue  
(2001/573/EC, 75/442/EEC, 91/689/EEC)

: Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities

The following Waste Codes are only suggestions:

06 03 14 - solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

150110 - packaging containing residues of or contaminated by dangerous substances

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR                                     | IMDG           | IATA           | ADN            | RID            |
|-----------------------------------------|----------------|----------------|----------------|----------------|
| <b>14.1. UN number</b>                  |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.2. UN proper shipping name</b>    |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.3. Transport hazard class(es)</b> |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.4. Packing group</b>              |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.5. Environmental hazards</b>      |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available  |                |                |                |                |

### 14.6. Special precautions for user

Special precautions for user : No data available

#### - Overland transport

Not applicable

#### - Transport by sea

Not applicable

#### - Air transport

Not applicable

#### - Inland waterway transport

Not applicable

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**- Rail transport**

Not applicable

**14.7. Maritime transport in bulk according to IMO instruments**

Code: IBC : IMSBC Code : Group C.

**SECTION 15: Regulatory information**

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

**15.1.1. EU-Regulations**

No REACH Annex XVII restrictions

DAP

is not on the REACH Candidate List

DAP

is not on the REACH Annex XIV List

**15.1.2. National regulations**

**France**

| No ICPE | Installations classées<br>Désignation de la rubrique | Code Régime | Rayon |
|---------|------------------------------------------------------|-------------|-------|
| na      | Not Applicable                                       | na          | na    |

**Germany**

Regulatory reference : WGK 3, Highly hazardous to water

Hazardous Incident Ordinance (12. BlmSchV) : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

**Netherlands**

Waterbezwaarlijkheid : B (4) - Weinig schadelijk voor in het water levende organismen

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : The substance is not listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has been carried out

|                                                                                   |                          |                         |
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## SECTION 16: Other information

Indication of changes:

|      |                                        |          |  |
|------|----------------------------------------|----------|--|
| 3.1  | Composition/information on ingredients | Modified |  |
| 8.2  | Hand protection                        | Modified |  |
| 15.1 | WGK - Code                             | Modified |  |
| 16   | Training advice                        | Modified |  |

Abbreviations and acronyms:

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin<br>ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route<br>CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC<br>IATA = International Air Transport Association<br>IMDG = International Maritime Dangerous Goods Code<br>LEL = Lower Explosive Limit/Lower Explosion Limit<br>UEL = Upper Explosion Limit/Upper Explosive Limit<br>REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals |
|  | ABM = Algemene beoordelingsmethodiek                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|  | BTT = Breakthrough time (maximum wearing time)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|  | DMEL = Derived Minimal Effect level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|  | DNEL = Derived No Effect Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|  | EC50 = Median Effective Concentration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|  | EL50 = Median effective level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|  | ErC50 = EC50 in terms of reduction of growth rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|  | ErL50 = EL50 in terms of reduction of growth rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|  | EWC = European waste catalogue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|  | LC50 = Median lethal concentration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|  | LD50 = Median lethal dose                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|  | LL50 = Median lethal level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|  | NA = Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|  | NOEC = No observed effect concentration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|  | NOEL: no-observed-effect level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|  | NOELR = No observed effect loading rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|  | NOAEC = No observed adverse effect concentration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|  | NOAEL = No observed adverse effect level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|  | N.O.S. = Not Otherwise Specified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|  | OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|  | PNEC = Predicted No Effect Concentration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|  | Quantitative structure-activity relationship (QSAR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|  | STOT = Specific Target Organ Toxicity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|  | TWA = time weighted average                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|  | VOC = Volatile organic compounds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|  | WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

Sources of key data used to compile the : European Chemicals Bureau, SDS supplier, CSR.  
datasheet

Training advice : Training staff on good practice.

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Classification according to Regulation (EC) No. 1272/2008 [CLP]

|                                                                                   |                          |  |                         |
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Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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