

## **SAFETY DATA SHEET**

## Europe

## **DIAMMONIUM PHOSPHATE (DAP) Granular 18-46-0**

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

1.1 Product identifier

Product name : DIAMMONIUM PHOSPHATE (DAP) Granular 18-46-0

**EC number** : 231-987-8

**REACH Registration number** 

Registration number	Substance Identification
01-2119490974-22-XXXX	Diammonium hydrogenorthophosphate

**Product code** : 1527-27976; 3826-27976; 4466-27976

Product description : EC FERTILISER Compound fertiliser, granular NP 18-46

Product type : Solid.
Other means of : DAP

identification

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

Identified uses					
Fertilisers. Fire protection systems.					
Uses advised against Reason					
None.	Not classified as dangerous				

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

Agrium Europe SA Avenue Louise 326/36 1050 Bruxelles Belgium

Tel: +32 (0)2 646 70 00 Fax: +32 (0)2 646 68 60 agrium@agrium.eu

e-mail address of person responsible for this SDS

: productsafety@agrium.com

#### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

Telephone number : Agrium Safety Data Sheets are available in many languages at http://www.agrium.com/

products/ae

Physicians, Poison Centres, or the Public may contact Agrium's Global Emergency Response Number 24/7/365 for service in many languages at +1 303 389 1654

AUSTRIA +43 1 406 43 43 AZERBAIJAN +994 125 979 924 BELARUS +375 17 287 00 92 BELGIUM +32 70 245 245

BULGARIA +359 2 9154 378; +359 887 435 325

CROATIA +358 1 2348 342

CZECH REPUBLIC +420 22 49 195 93

DENMARK +45 82 12 12 12 ESTONIA 16662; +372 62 69 379

FINLAND +358 9 471977

**FRANCE** 

Angers +33 (0)2 41 48 21 21 Bordeaux +33 (0)5 56 96 40 80

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

Lille 0800 59 59 59 (national callers) Lyon +33 (0)4 72 11 69 11 Marseille +33 (0)4 91 75 25 25 Nancy +33 (0)3 83 22 50 50 Paris +33 (0)1 40 05 48 48 Rennes +33 (0)2 99 59 22 22 Strasbourg +33 (0)3 88 37 37 37 Toulouse +33 (0)5 61 77 74 47 GEORGIA +995 99 53 33 20 **GERMANY** Berlin +49 30 192 40 Bonn +49 228 192 40 Erfurt +49 361 730 730 Freiburg +49 761 192 40 Goettingen +49 551 192 40 Homburg (Saar) +49 6841 192 40 Mainz +49 6131 192 40 Munich +49 89 192 40 GREECE +30 21 07 79 37 77 HUNGARY +36 80 20 11 99 ICELAND +354 543 22 22 IRELAND +353 1 837 9964 (medical professionals) +353 1 809 2166 (public) ISRAEL +972 4 854 19 00 **ITALY** Bergamo +39 800 883 300 Firenze +39 55 794 7819 Foggia +39 881 732 326 Genoa +39 10 563 62 45 Milan +39 02 6610 1029 Padova +39 49 827 50 78 Pavia +39 38 224 444 Rome +39 06 305 43 43 Turin +39 011 663 7637 KAZAKHSTAN +7 3272 925 868 LITHUANIA +370 5 236 20 52: +370 687 533 78 NETHERLANDS +31 30 274 88 88 NORWAY +47 22 59 13 00 **POLAND** Gdansk +48 58 682 04 04 Krakow +48 12 411 99 99 Lòdz +48 42 63 14 724 Sosnowiec +48 32 266 11 45 Warszawa +48 22 619 66 54 Wroclaw +48 71 343 30 08 PORTUGAL 808 250 143 (national callers) ROMANIA +402 212 106 282 **RUSSIAN FEDERATION** Ekaterinburg +7 343 229 98 57 Moscow +7 495 628 1687 Saint-Petersburg +7 921 757 3228 SERBIA +381 11 3608 440 SLOVAKIA +421 2 5477 4166 SLOVENIA +386 41 635 500 SPAIN +34 91 562 0420 SWEDEN 112 (national callers); +46 (0)10 456 6700 SWITZERLAND +41 44 251 51 51 (in Switzerland dial 145) THE FORMER YUGOSLAVIA +38 923 147 635 TURKEY +90 0312 433 70 01 or 0 800 314 7900 **UNITED KINGDOM** Belfast 844 892 0111 Birmingham 844 892 0111 Edinburgh 844 892 0111

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Penarth 844 892 0111

Newcastle Upon Tyne +44 191 2606182; +44 191 2606180

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

**Supplier** 

Telephone number Agrium Europe SA

> **EMERGENCY TELEPHONE NUMBERS:** Transportation: 00-1-303-389-1654 Medical: 00-1-303-389-1654

: 24/7/365 Hours of operation

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

Not classified.

#### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mono-constituent substance

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

Not classified.

#### 2.2 Label elements

**Hazard pictograms** 



Signal word No signal word. **Hazard statements** Not applicable.

**Precautionary statements** 

: Read label before use. Keep out of reach of children. If medical advice is needed, **General** 

have product container or label at hand.

**Prevention** : Avoid release to the environment.

Collect spillage. Response **Storage** Not applicable.

Dispose of contents and container in accordance with all local, regional, national and **Disposal** 

international regulations.

#### Special packaging requirements

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

#### 2.3 Other hazards

Other hazards which do not : Not available.

result in classification

## SECTION 3: Composition/information on ingredients

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## SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Туре
Europe				
Diammonium hydrogenorthophosphate	REACH #: 01-2119490974-22 EC No.: 231-987-8	70-100	Not classified.	[A]
Monoammonium phosphate	CAS: 7783-28-0 REACH #: 01-2119488166-29 EC: 231-764-5 CAS: 7722-76-1	0-<10	Not classified.	[B]
Ammonium sulphate	REACH Reg.#: 01-2119455044-46 EC: 231-984-1 CAS: 7783-20-2	0-<10	Not classified.	[B]
Calcium sulphate	REACH #: 01-2119444918-26 EC: 231-900-3 CAS: 10101-41-4	0-<10	Not classified.	[B]

#### Type

- [A] Constituent
- [B] Impurity
- [C] Stabilising additive

Occupational exposure limits, if available, are listed in Section 8.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention if irritation occurs.

Inhalation : No special measures are typically indicated. Get medical attention if adverse health

effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire,

symptoms may be delayed.

**Skin contact**: Wash with soap and water.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is

conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if adverse health effects

persist or are severe.

**Protection of first-aiders** : No evidence of risk to humans.

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

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

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## SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

phosphorus oxides

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

Hazards from the substance or mixture : Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal** decomposition products

Decomposition products may include the following materials: nitrogen oxides

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective** equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### SECTION 6: Accidental release measures

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

May be harmful to the environment if released in large quantities. See also the information in "For non-emergency personnel".

#### 6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. Collect spillage.

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

**Small spill** 

: Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container, or Recover the material and use it for its intended purpose.

Large spill

Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container.or Recover the material and use it for its intended purpose.

## 6.4 Reference to other

sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

If applicable: The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust.

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## SECTION 7: Handling and storage

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Absorbs moisture on long-term storage under high humidity conditions. Must be stored in a dry location. May form steep piles that can collapse without warning when stored in bulk. Avoid forming steep slopes when removing product.

#### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

## SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
Europe	
No exposure limit value known.	
Latvia	
Diammonium hydrogenorthophosphate	LV Nat. Standardisation and Meterological Centre (Latvia, 5/2007).
	TWA: 6 mg/m³ 8 hour(s).
<b>Recommended monitoring</b> : If this product of	contains ingredients with exposure limits, personal, workplace

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Diammonium hydrogenorthophosphate	DNEL	Long term Inhalation	6.1 mg/m <sup>3</sup>	Workers	Systemic

**DNEL/DMEL Summary**: Ve

: Very low toxicity to humans or animals.

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
Diammonium hydrogenorthophosphate	Fresh water	1.7 mg/l	Assessment Factors

**PNEC Summary** 

: Very low acute toxicity to fish.

#### 8.2 Exposure controls

Appropriate engineering controls

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### **Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

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## SECTION 8: Exposure controls/personal protection

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Possible: safety glasses with side-shields

**Skin protection** 

**Hand protection** 

: Not recommended

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **SECTION 9: Physical and chemical properties**

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

**Appearance** 

Physical state : Solid.

Colour : Not available.

Odour : Odourless.

Odour threshold : Not available.

pH : Not available.

Melting point/freezing point : 155°C

Initial boiling point and boiling

range

Decomposes.

Flash point : [Product does not sustain combustion.]

**Evaporation rate** : Not available.

Flammability (solid, gas) : Non-flammable in the presence of the following materials or conditions: open

flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials,

metals, acids, alkalis and moisture.

Upper/lower flammability or

explosive limits

Not available.

Vapour pressure : 0.000076 kPa [20°C]

Vapour density : Not available.

Relative density : 1.6

**Solubility(ies)** : Easily soluble in the following materials: hot water.

Soluble in the following materials: cold water.

Partition coefficient: n-octanol/

water

Not available.

**Auto-ignition temperature** : Not available.

**Decomposition temperature** : 155°C

Viscosity : Not available.

**Explosive properties**: Non-explosive in the presence of the following materials or conditions: open flames,

sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals,

acids, alkalis and moisture.

Oxidising properties : Not available.

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## **SECTION 9: Physical and chemical properties**

#### 9.2 Other information

No additional information.

## **SECTION 10: Stability and reactivity**

10.1 Reactivity : Not considered to be reactive.

**10.2 Chemical stability** : The product is stable.

10.3 Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : No specific data.

**10.5 Incompatible materials** : No specific data.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Diammonium hydrogenorthophosphate	LC50 Inhalation Dusts and mists	Rat - Male, Female	>5 mg/l	4 hours
	LD50 Dermal	Rat - Male, Female	>5000 mg/kg	-
	LD50 Oral	Rat - Male, Female	>2000 mg/kg	-

#### Conclusion/Summary

: Very low toxicity to humans or animals.

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Diammonium hydrogenorthophosphate	Skin - Oedema	Rabbit	0	72 hours	-
, , , , , , , , , , , , , , , , , , , ,	Eyes - Cornea opacity	Rabbit	0	72 hours	-

#### Conclusion/Summary

Skin: Non-irritating to the skin.Eyes: Non-irritating to the eyes.Respiratory: Non-irritating (EU).

#### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
Diammonium hydrogenorthophosphate	skin	Mouse	Not sensitizing

#### Conclusion/Summary

Skin : Non-sensitiser to skin.

Respiratory : Non-sensitiser to lungs.

#### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
Diammonium hydrogenorthophosphate	471 Bacterial Reverse Mutation Test	Subject: Bacteria	Negative

**Conclusion/Summary**: Not available.

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## SECTION 11: Toxicological information

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
Diammonium hydrogenorthophosphate	Negative	Negative	Negative		Oral: 1500 mg/ kg	-

**Conclusion/Summary**: No known significant effects or critical hazards.

**Teratogenicity** 

**Conclusion/Summary**: No teratogenic effect.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

**Aspiration hazard** 

Not available.

**Information on likely routes** : Not available.

of exposure

Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Diammonium hydrogenorthophosphate	Chronic NOAEL Oral	Rat - Male, Female	250 mg/kg	-

Conclusion/Summary : Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.

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## **SECTION 11: Toxicological information**

Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

Other information : Not available.

## SECTION 12: Ecological information

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Diammonium hydrogenorthophosphate	Ğ	Fish - Tilapia mossambica - Juvenile (Fledgling, Hatchling, Weanling) - 2 to 2.9 g	96 hours

Conclusion/Summary : Not available.

#### 12.2 Persistence and degradability

**Conclusion/Summary**: According to EC criteria: Readily biodegradable

#### 12.3 Bioaccumulative potential

Not available.

#### 12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

**Mobility** 

: Not available.

#### 12.5 Results of PBT and vPvB assessment

PBT : No. vPvB : No.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

If applicable: The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible.

Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority

requirements.
: Non-hazardous waste

## European waste catalogue (EWC)

Waste code	Waste designation	
06 13 99	wastes not otherwise specified	

#### **Packaging**

**Methods of disposal** 

**Hazardous waste** 

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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## **SECTION 13: Disposal considerations**

**Special precautions** 

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

14.6 Special precautions for

: Not available.

user

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

: Not available.

## SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions

: Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

articles

Other EU regulations

**Europe inventory**: This material is listed or exempted.

**National regulations** 

Denmark France

**Reinforced medical** 

surveillance

: Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable

<u>ltaly</u>

D.Lgs. 152/06 : Not classified.

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## SECTION 15: Regulatory information

**Biocidal products** 

regulation

: Not applicable.

**Ordinance on Thermoset** 

**Plastics** 

: Not applicable.

: Not available. Thermoset plastic waste : Not available. Waste group

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

**Rotterdam Convention on Prior Inform Consent (PIC)** 

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

: Not available. 15.2 Chemical safety

assessment

#### SECTION 16: Other information

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms**: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification	
Not classified.		

**Europe** 

Full text of abbreviated H

statements

Not applicable.

Full text of classifications

[CLP/GHS]

Not applicable.

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#### SECTION 16: Other information

Notice to reader

**DISCLAIMER AND LIMITATION OF LIABILITY** 

The information and recommendations contained in this Safety Data Sheet ("SDS") relate only to the specific material referred to herein (the "Material") and do not relate to the use of such Material in combination with any other material or process. The information and recommendations contained herein are believed to be current and correct as of the date of this SDS. HOWEVER, THE INFORMATION AND RECOMMENDATIONS ARE PRESENTED WITHOUT WARRANTY, REPRESENTATION OR LICENSE OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THEIR ACCURACY, CORRECTNESS OR COMPLETENESS, AND THE SELLER, SUPPLIER AND MANUFACTURER OF THE MATERIAL AND THEIR RESPECTIVE AFFILIATES (COLLECTIVELY, THE "SUPPLIER") DISCLAIM ALL LIABILITY FOR RELIANCE ON SUCH INFORMATION AND RECOMMENDATIONS. This SDS is not a quarantee of safety. A buyer or user of the Material (a "Recipient") is responsible for ensuring that it has all current information necessary to safely use the Material for its specific purpose.

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