

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Reference number: 01230 Issue date: 17-08-2021 Revision date: 17-08-2021 Supersedes version of: 25-04-2016 Version: 1.0

SECTION 1: Identification of the subst	tance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form Trade name EC-No. CAS-No. Product code Formula Chemical structure	: Substance : DIi-AMMONIUM HYDROGEN ORTHOPHOSPHATE ANHYDROUS AR/ACS : 231-987-8 : 7783-28-0 : 01230 : (NH4)2HPO4 : $\begin{bmatrix} O\\ -O - P - O^{-}\\ 0H \end{bmatrix} \begin{bmatrix} NH_4^{+}\\ 2 \end{bmatrix}_2$	
Synonyms	: Ammonium phosphate Dibasic, Ammonium hydrogen phosphate	
1.2. Relevant identified uses of the substa	nce or mixture and uses advised against	
1.2.1. Relevant identified uses		
Industrial/Professional use spec	: For professional use only	
Use of the substance/mixture	Industrial : Laboratory chemicals, Manufacture of substances	
1.2.2. Uses advised against		
No additional information available		
1.3. Details of the supplier of the safety data sheet		
LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com		
1.4. Emergency telephone number		
Emergency number	: + 91 22 6663 6663 (9:00am - 6:00 pm)	
SECTION 2: Hazards identification 2.1. Classification of the substance or mix	ture	
Classification according to Regulation (EC) No. Skin corrosion/irritation, Category 2	H315	
Serious eye damage/eye irritation, Category 2	H319	
Specific target organ toxicity — Single exposure, Category 3, Respiratory H335 tract irritation Full text of H-statements: see section 16		
Adverse physicochemical, human health and en	nvironmental effects	
May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation.		

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Labelling according to Regulation (EC) I	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	<ul> <li>H315 - Causes skin irritation.</li> <li>H319 - Causes serious eye irritation.</li> <li>H335 - May cause respiratory irritation.</li> </ul>
Precautionary statements (CLP)	<ul> <li>P261 - Avoid breathing vapours, dust, fume, gas.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> </ul>

## 2.3. Other hazards

No additional information available

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

3.1. Substances	
Substance type Name CAS-No. EC-No.	<ul> <li>Mono-constituent</li> <li>Dli-AMMONIUM HYDROGEN ORTHOPHOSPHATE ANHYDROUS AR/ACS</li> <li>7783-28-0</li> <li>231-987-8</li> </ul>

## 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

4.1. Description of first aid measures		
First-aid measures general First-aid measures after inhalation	<ul> <li>Call a poison center or a doctor if you feel unwell.</li> <li>Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. Call a poison center or a doctor if you feel unwell.</li> </ul>	
First-aid measures after skin contact	: Wash with plenty of water/ Wash contaminated clothing before reuse. Get medical advice/attention. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.	
First-aid measures after eye contact	: Get medical advice/attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a poison center or a doctor if you feel unwell.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact	<ul> <li>May cause respiratory irritation.</li> <li>Causes skin irritation. Irritation.</li> <li>Causes serious eye irritation. Eye irritation.</li> </ul>	

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

Treat symptomatically.

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SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media Unsuitable extinguishing media	<ul><li>Carbon dioxide. Water spray. Dry powder. Foam.</li><li>Do not use a heavy water stream.</li></ul>	
5.2. Special hazards arising from the subs	tance or mixture	
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Advice for firefighters		
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

SECTION 6: Accidental release m	easures	
6.1. Personal precautions, protective	equipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel. Avoid breathing dust, fume, gas, mist, spray, vapours. Avoid contact with skin and eyes.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".	
Emergency procedures	· Ventilate area.	
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for containment and cleaning up		
Methods for cleaning up	: Mechanically recover the product. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		
For further information refer to section 13.		
SECTION 7: Handling and storage	)	
7.1. Precautions for safe handling		
Precautions for safe handling	Do not breathe vapours. Use only outdoors or in a well-ventilated area. Avoid breathing fume, dust, gas, mist, spray, vapours. Avoid contact with skin and eyes. Wear personal protective equipment.	
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Do not eat,	

7.2. Conditions for safe storage, including	any incompatibilities
Storage conditions	: Keep container tightly closed. Store in a well-ventilated place. Store locked up. Keep cool.
7.3. Specific end use(s)	
No additional information available	

drink or smoke when using this product. Always wash hands after handling the product.

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## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### 8.1.1. National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

## 8.2.2. Personal protection equipment

### Personal protective equipment symbol(s):



### 8.2.2.1. Eye and face protection

**Eye protection:** Safety glasses

### 8.2.2.2. Skin protection

Skin and body protection: Wear appropriate mask

Hand protection: Protective gloves

#### 8.2.2.3. Respiratory protection

### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

### 8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state Appearance : Solid

: Crystals. Crystalline powder.

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Molecular mass	: 132.06 g/mol
Colour	: White.
Odour	: Odourless.
Odour threshold	: No data available
рН	: 7.6 – 8.2 (1% Solution)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 155 °C
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: 0.001 hPa at 20°C - OECD Test Guideline 104
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.62 g/cm <sup>3</sup>
Solubility	: Soluble in water.
	Water: 132.1 g/l at 20 °C
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable
9.2. Other information	

Bulk density

: 800 – 1000 kg/m<sup>3</sup> ca.

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

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### **10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions** 

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

10.5. Incompatible materials

No additional information available

**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 ef	fects		
Acute toxicity (oral) Acute toxicity (dermal)	: Not classified : Not classified		
Acute toxicity (inhalation)	: Not classified		

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Skin corrosion/irritation :	Causes skin irritation.
	pH: 7.6 – 8.2 (1% Solution)
Serious eye damage/irritation :	Causes serious eye irritation.
	pH: 7.6 – 8.2 (1% Solution)
Respiratory or skin sensitisation :	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity :	Not classified
Reproductive toxicity :	Not classified
STOT-single exposure :	May cause respiratory irritation.
STOT-repeated exposure :	Not classified
Aspiration hazard :	Not classified
DII-AMMONIUM HYDROGEN ORTHOPHOSPHATE ANHYDROUS AR/ACS (7783-28-0)	
Viscosity, kinematic	Not applicable

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general Hazardous to the aquatic environment, short-term (acute) Hazardous to the aquatic environment, long-term (chronic)	<ul> <li>The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.</li> <li>Not classified</li> <li>Not classified</li> </ul>
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	t
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	

## 13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

# **SECTION 14: Transport information**

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

## 14.1. UN number

UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA)

- : Not regulated : Not regulated
- : Not regulated

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UN-No. (ADN) UN-No. (RID)	: Not regulated : Not regulated
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID)	<ul> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> </ul>
14.3. Transport hazard class(es)	
ADR Transport hazard class(es) (ADR)	: Not regulated
IMDG Transport hazard class(es) (IMDG)	: Not regulated
IATA Transport hazard class(es) (IATA)	: Not regulated
ADN Transport hazard class(es) (ADN)	: Not regulated
<b>RID</b> Transport hazard class(es) (RID)	: Not regulated
14.4. Packing group	
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	<ul> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> </ul>
14.5. Environmental hazards	
Dangerous for the environment Marine pollutant Other information	: No : No : No supplementary information available
14.6. Special precautions for user	
Overland transport Not regulated	
Transport by sea Not regulated	
Air transport Not regulated	
Inland waterway transport Not regulated	
Rail transport Not regulated	
14.7. Transport in bulk according to Annex	x II of Marpol and the IBC Code
Not applicable	

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## **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

DII-AMMONIUM HYDROGEN ORTHOPHOSPHATE ANHYDROUS AR/ACS is not on the REACH Candidate List

DI-AMMONIUM HYDROGEN ORTHOPHOSPHATE ANHYDROUS AR/ACS is not on the REACH Annex XIV List

DIi-AMMONIUM HYDROGEN ORTHOPHOSPHATE ANHYDROUS AR/ACS is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

DII-AMMONIUM HYDROGEN ORTHOPHOSPHATE ANHYDROUS AR/ACS is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

#### Germany

Water hazard class (WGK)	: WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 7150)
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting	: The substance is not listed
giftige stoffen – Borstvoeding	
NIET-limitatieve lijst van voor de voortplanting	: The substance is not listed
giftige stoffen – Vruchtbaarheid	
NIET-limitatieve lijst van voor de voortplanting	: The substance is not listed
giftige stoffen – Ontwikkeling	
Denmark	
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product
č	
15.2. Chemical safety assessment	

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods

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Abbreviations and acronyms		
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Safety Data Sheet (SDS), EU

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