1: Identification	of substance / mi	xture		
1. Product Iden	ntifier			Substance
Product Name	SODIUM PHOSPHATE DIBASIC HEPTAHYDRATE			
Product Code S23175				
CAS Number	7782-85-6			
Other Names				
IUPAC				
MFCD Number				
EC/EINECS	237-707-0			
REACH Numbe	r			Index-No
2. Relevant ide	ntified uses of th	e substance or mi	xture and u	ses advised against
	nd Laboratory use o			-
3. Details of the	e supplier of the	safety data sheet		
Melford Laborat		-		
Bildeston Road,	Chelsworth			
lpswich				
Suffolk			ephone:	01449 741178
IP77LE		Fax		01449 741217
UK		Em	ail:	support@melford.co.uk
4. Emergency +44(0)1449 741	telephone numb 178 -	er		
2. Hazards Ider				
	n of the substan	ce or mixture		
H315	Skin Irrit. 2			
H319	Eye Irrit. 2			
H335	STOT SE 3			
				,
2. Label elemer	nts			
Signal Word V	Varning	\wedge		
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		•		
		\mathbf{V}		
Hazard Statem				
H315	Causes skin irritat			
H319	Causes serious eye irritation.			
H335	May cause respiratory irritation.			
Precautionary				
P260	Do not breathe dust/fume/gas/mis			ıy.
P271	Use only outdoors or in a well-ventilated area.			
P280	Wear protective gloves/protective clothing/eye protection/face protection.			
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.			
P332 + P313				
P337 + P313	If eye irritation p	ersists: Get medical	advice/atte	ntion.
3. Other Hazard	ls			
Additional preca	autionary phrases a	e located throughout	the safety dat	a sheet
3. Composition	/ Information on Ir	gredients		
1. Substances				

Safety Data Sheet

Revision: 3.01 Modified: 2021-07-19

Product Name Hazards Concentration SODIUM PHOSPHATE DIBASIC HEPTAHYDRATE CAS Number: 7782-85-6 H315, H319, H335 Eye Irrit. 2, Skin Irrit. 2, STOT SE 3 <= 100% EC/EINECS: 237-707-0 4. First Aid Measures 1. Description of first aid measures Skin Contact P332 + P313: If skin irritation occurs: Get medical advice/attention. Wash with plenty of soap and water. Consult a doctor. Eye Contact P337 + P313: If eye irritation persists: Get medical advice/attention. Rinse opened eye for several minutes under running water. Consult a doctor. Ingestion Wash out mouth with water. Consult a doctor. Inhalation P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Remove casualty from exposure ensuring one's own safety whilst doing so. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Consult a doctor. 2. Most important symptoms and effects No data available 3. Indication of any immediate medical attention No data available 5. Firefighting measures 1. Extinguishing Media Suitable Water spray. Carbon dioxide. Alcohol or polymer foam. Dry chemical powder. Unsuitable None 2. Special Hazards arising from the substance or mixture Oxides of phosphorus, Sodium oxides. 3. Advice for Fire Fighters Wear self-contained breathing apparatus. 6. Accidental Release Measures **1. Personal Precautions** Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. 2. Environmental Precautions Do not discharge into drains or rivers. 3. Methods & Materials Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not create dust 4. Preventing the occurrence of secondary hazards. Clean up all spills immediately. Wear suitable PPE.

Safety Data Sheet

7.Handling and Storage

1. Personal Precautions

Safe Handling	Avoid direct contact with the substance. Ensure there is exhaust ventilation of the area.
Protection against explosions and fires	Normal measures for preventive fire protection.

2. Conditions for safe storage, including any incompatibilities

Managing Storage Risks	Store in cool, well ventilated area.
Storage Controls	No special requirements
Maintaining Integrity	No special requirements
Other advice	no further information available

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

Q	Evnoeuro	Controls/Personal	Drotaction
ο.	Exposure	CONTROLS/FEISONAL	FIDIECTION

1. Control Parameters

No Data Available

2. Exposure Controls General protective and P280: Wear protective gloves/protective clothing/eye protection/face protection. The standard precautionary measures should be adhered to when handling hygiene measures P271: Use only outdoors or in a well-ventilated area. Engineering measures Ensure there is exhaust ventilation of the area. Eye / Face Protection Safety Glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU) Hand protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it Respiratory protection P260: Do not breathe dust/fume/gas/mist/vapours/spray. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Choose body protection in relation to its type, to the concentration and amount of dangerous Skin protection substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Other personal protection no data advice 9. Physical and Chemical Properties 1. Physical and Chemical Properties

Appearance	White powder
Odour	No Data Available
Odour threshold	No Data Available
PH	9.0-9.3
Melting point / Freezing point	No Data Available

According to Regulation (EC) No. 1272/2008 Language : English

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Initial boiling point and boiling range	No Data Available	
Flash point	No Data Available	
Evaporation rate	No Data Available	
Flammability(solid,gas)	No Data Available	
Upper/lower flammability or explosive limits	No Data Available	
Vapour pressure	No Data Available	
Vapour density	No Data Available	
Relative density	No Data Available	
Solubility(ies):	No Data Available	
Partition coefficient: n-octanol/water	No Data Available	
Auto-ignition temperature	No Data Available	
Decomposition temperature	No Data Available	
Viscosity	No Data Available	
Explosive properties	No Data Available	
Oxidising properties	No Data Available	

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

No data available

2. Stability

Stable under recommended storage conditions.

3. Possibility of Hazardous Reactions

No data available

4.Conditions to Avoid

No data available

5. Incompatible Materials

Strong acids.

6. Hazardous Decomposition Products

In combustion emits toxic fumes.

11. Toxicology information

1. Information

Acute Toxicity Skin corrosion/irritation	LD50 -Oral 12930 mg/kg (rat) No information available
Serious eye Damage/irritation	No information available
Respiratory or skin sensitisation	No information available
Germ Cell mutagenicity	No information available
Carcinogenicity	No information available
Reproductive toxicity	No information available
STOT-single exposure	No information available
STOT-repeated exposure	No information available
Aspiration hazard	

Safety Data Sheet

No information available

2. Additional

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

12. Ecological Information

1. Toxicity

not known

2. Persistence and degradability

not known

3. Bio-Accumulative Potential

not known

4. Mobility and Soil

not known

5. Results of PBT & vPvB assessment not known

6. Other adverse effects

not known

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations	Consult state, local or national regulations for proper disposal.

Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

Not classified as hazardous for transport

Road (ADR)

Not classified as hazardous for transport

Sea (IMDG)

Not classified as hazardous for transport

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

ADR: Accord Europeen sur le transport des merchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road) RID:Reglement International concernant le transport des merchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association ICAO:International Civil Aviation Organization ICAO-TI: Technical Instructions by the ICAO GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS:Chemical Abstracts Service

3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.