

1: Identification of substance / mixture

1. Product Identifier

Mixture

Product Name **PBS Tablets**

Product Code P32080

CAS Number

Other Names P32080
12821680

IUPAC

MFCD Number

EC/EINECS

REACH Number

Index-No

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

Research and Development

3. Details of the supplier of the safety data sheet

Melford Laboratories Ltd
Bildeston Road,Chelsworth
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IP77LE
UK

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4. Emergency telephone number

+44(0)1449 741178 -

2. Hazards Identification

1. Classification of the substance or mixture

H315	Skin Irrit. 2	
H319	Eye Irrit. 2	
H335	STOT SE 3	

2. Label elements

Signal Word **Warning**



Hazard Statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

Product Name	Hazards	Concentration
PBS Tablets		
	H315, H319, H335 Eye Irrit. 2, Skin Irrit. 2, STOT SE 3	<=100%

4. First Aid Measures

1. Description of first aid measures

<i>Skin Contact</i>	P302 + P352: IF ON SKIN: Wash with plenty of soap and water. Wash off with soap and plenty of water. Consult a physician.
<i>Eye Contact</i>	P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
<i>Ingestion</i>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<i>Inhalation</i>	P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

2. Most important symptoms and effects

The most important known symptoms and effects are described in section 11,

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

No data available

3. Advice for Fire Fighters

No data available

6. Accidental Release Measures

1. Personal Precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
For personal protection see section 8

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 dusts.

4. Preventing the occurrence of secondary hazards.

Clean up all spills immediately. Wear suitable PPE.

7. Handling and Storage

1. Personal Precautions

Safe Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

P264: Wash hands thoroughly after handling.

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 place.
Keep container tightly closed in a dry and well-ventilated place.

Storage Controls Storage class (TRGS 510): Non Combustible Solids

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.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

General protective and hygiene measures P280: Wear protective gloves/protective clothing/eye protection/face protection.
The standard precautionary measures should be adhered to when handling

Engineering measures P271: Use only outdoors or in a well-ventilated area.
Ensure there is sufficient ventilation of the area.

Eye / Face Protection Safety glasses with side-shields conforming to EN166 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 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Skin protection Impervious clothing, 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 advice no data

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	White tablets
Odour	None

Odour threshold	No Data Available
PH	No Data Available
Melting point / Freezing point	No Data Available
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):	Soluble in water
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 unusual reactivity

2. Stability

Stable at room temperature.

3. Possibility of Hazardous Reactions

no hazardous reactions known

4. Conditions to Avoid

Moist Air.

5. Incompatible Materials

Strong oxidizing agents.
 Strong acids.

6. Hazardous Decomposition Products

In combustion emits toxic fumes of carbon dioxide.
 In combustion emits toxic fumes of carbon monoxide.

11. Toxicology information

1. Information

Acute Toxicity

Sodium Chloride
 LD50 Oral 3 g/kg (Rat)
 LD50 Dermal 10 g/kg (Rabbit)
 LD50 Inhalation 42 g/m3(Rat) 1 h

Sodium Phosphate Dibasic
 LD50 Oral 7 g/kg (Rat)

Potassium Chloride
 LD50 Oral 2600 mg/kg (Rat)

Skin corrosion/irritation no data

<i>Serious eye Damage/irritation</i>	no data
<i>Respiratory or skin sensitisation</i>	No sensitizing effect known
<i>Germ Cell mutagenicity</i>	no data
<i>Carcinogenicity</i>	not known IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<i>Reproductive toxicity</i>	not known
<i>STOT-single exposure</i>	not known
<i>STOT-repeated exposure</i>	not known
<i>Aspiration hazard</i>	not known

2. Additional

RTECS: Not available

Vomiting, Diarrhoea, Dehydration and congestion may occur in internal organs. Hypertonic salt solutions can produce inflammatory reactions in the gastrointestinal tract., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

12. Ecological Information

1. Toxicity

Sodium Chloride

Toxicity to fish:

LC50 6020-7070 mg/LPimephales promelas 96 h

LC50 6420-6700 mg/LPimephales promelas 96 h

LC50 4747-7824 mg/LOncorhynchus mykiss 96 h

LC50= 12946 mg/L Lepomismacrochirus 96 h

Daphnia Magna (water flea)

EC50 100mg/L 48 Hr

Potassium Chloride

Toxicity to Algae:

EC50 = 2500mg/L 72 h

Toxicity to fish:

LC50 750-1020 mg/LPimephales promelas 96 h

LC50= 1060 mg/L Lepomismacrochirus 96 h

Daphnia Magna (water flea)

EC50 = 825 mg/L 48 h

2. Persistence and degradability

not known

3. Bio-Accumulative Potential

not known

4. Mobility and Soil

not known

5. Results of PBT & vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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 marchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)

RID:Reglement International concernant le transport des marchandises 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.