

SAFETY DATA SHEET

Phosphomycin disodium salt

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

1.1. Product identifier

Product name	Phosphomycin disodium salt

Product	t numbe	er	32274655

CAS number 26016-99-9

EC number 247-409-2

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

Uses advised against Not suitable for human consumption or veterinary purposes.

1.3. Details of the supplier of the safety data sheet

Supplier	Molekula Ltd.
	Lingfield Way,
	Darlington,
	DL1 4XX,
	United Kingdom
	+44 (0) 3302000333
	info@molekula.com

1.4. Emergency telephone number

+44 (0) 7769276927

SECTION 2: Hazards identification

2.1. Classification of the substance or m	ixture
Classification (SI 2019 No. 720)	

	<u>,</u>
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
2.2. Label elements	
EC number	247-409-2
Hazard statements	NC Not Classified

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current UK criteria.

SECTION 3: Composition/information on ingredients	
3.1. Substances	

Product name

Phosphomycin disodium salt

CAS number	26016-99-9	
EC number	247-409-2	
Chemical formula	C3H5Na2O4P	
SECTION 4: First aid measure	3 S	
4.1. Description of first aid me	asures	
General information	If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.	
Inhalation	No specific recommendations. If throat irritation or coughing persists, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues.	
Ingestion	No specific recommendations. If throat irritation or coughing persists, proceed as follows. Rinse mouth. Get medical attention if any discomfort continues.	
Skin contact	No specific recommendations. Rinse with water. Get medical attention if any discomfort continues.	
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.	
Protection of first aiders	Use protective equipment appropriate for surrounding materials.	
4.2. Most important symptoms	and effects, both acute and delayed	
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	
Inhalation	A single exposure may cause the following adverse effects: Temporary irritation.	
Ingestion	May cause discomfort if swallowed.	
Skin contact	Prolonged contact may cause dryness of the skin.	
Eye contact	May be slightly irritating to eyes.	
4.3. Indication of any immedia	te medical attention and special treatment needed	
Notes for the doctor	Treat symptomatically.	
Specific treatments	No special treatment required.	
SECTION 5: Firefighting meas	sures	
5.1. Extinguishing media		
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire- extinguishing media suitable for the surrounding fire.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
5.2. Special hazards arising from the substance or mixture		
Specific hazards	None known.	

Hazardous combustion	Thermal decomposition or combustion products may include the following substances:
products	Harmful gases or vapours. Carbon dioxide (CO2).
	Carbon monoxide (CO).
	Sodium oxides
	Oxides of phosphorus.
5.3. Advice for firefighters	
Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.
SECTION 6: Accidental releas	e measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
Personal precautions	No specific recommendations. For personal protection, see Section 8.
6.2. Environmental precaution	S
Environmental precautions	Avoid discharge into drains or watercourses or onto the ground.
6.3. Methods and material for	containment and cleaning up
Methods for cleaning up	Reuse or recycle products wherever possible. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.
6.4. Reference to other section	ns
Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13.
SECTION 7: Handling and sto	rage
7.1. Precautions for safe hand	ling
Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.
7.2. Conditions for safe storag	e, including any incompatibilities
Storage precautions	Store away from incompatible materials (see Section 10).
	Store at temperatures between 2°C/35.6°F and 8°C/46.4°F. Hygroscopic. Light sensitive Store under argon.
Storage class	Unspecified storage.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
SECTION 8: Exposure control	s/Personal protection

8.1. Control parameters

8.2. Exposure controls

/	
Appropriate engineering controls	No specific ventilation requirements.
Eye/face protection	No specific eye protection required during normal use. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.
Hand protection	No specific hand protection recommended. Large Spillages: Wear protective gloves.
Hygiene measures	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
Respiratory protection	No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.
Environmental exposure controls	Not regarded as dangerous for the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Powder.
Colour	White.
Odour	Not known.
Odour threshold	No information available.
рН	No information available.
Melting point	300°C/572°F
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	No information available.
Solubility(ies)	Slightly soluble in the following materials: Methanol. Slightly soluble in water.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
9.2. Other information	
Molecular weight	182.02
SECTION 10: Stability and reactivity	

Skin sensitisation

Carcinogenicity

Germ cell mutagenicity

Phosphomycin disodium salt

10.1. Reactivity		
Reactivity	See the other subsections of this section for further details.	
10.2. Chemical stability		
Stability	Stable under the prescribed storage conditions.	
10.3. Possibility of hazardous	reactions	
Possibility of hazardous reactions	No potentially hazardous reactions known.	
10.4. Conditions to avoid		
Conditions to avoid	Light.	
10.5. Incompatible materials		
Materials to avoid	Strong oxidising agents.	
10.6. Hazardous decomposition products		
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO). Oxides of phosphorus. Sodium oxides	
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity - oral Summary	Based on available data the classification criteria are not met.	
Acute toxicity - dermal Summary	Based on available data the classification criteria are not met.	

Acute toxicity - inhalation		

Summary	Based on available data the classification criteria are not met.
Skin corrosion/irritation Summary	Based on available data the classification criteria are not met.
Serious eye damage/irritation Summary	Based on available data the classification criteria are not met.
Respiratory sensitisation Summary	Based on available data the classification criteria are not met.

Summary Based on available data the classification criteria are not met.

Summary Based on available data the classification criteria are not met.

 Summary
 Based on available data the classification criteria are not met.

IARC carcinogenicity None of the ingredients are listed or exempt.

Reproductive toxicity		
Summary	Based on available data the classification criteria are not met.	
Specific target organ toxicity -		
Summary	Based on available data the classification criteria are not met.	
Specific target organ toxicity -		
Summary	Based on available data the classification criteria are not met.	
Aspiration hazard Summary	Not relevant. Solid.	
General information	No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	
Inhalation	A single exposure may cause the following adverse effects: Temporary irritation.	
Ingestion	May cause discomfort if swallowed.	
Skin contact	Prolonged contact may cause dryness of the skin.	
Eye contact	May be slightly irritating to eyes.	
Route of exposure	Ingestion Inhalation Skin and/or eye contact	
Target organs	No specific target organs known.	
SECTION 12: Ecological infor	SECTION 12: Ecological information	
Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.	
Ecotoxicity <u>12.1. Toxicity</u>		
<u>12.1. Toxicity</u> Acute aquatic toxicity	hazardous effects on the environment.	
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<u>12.1. Toxicity</u> Acute aquatic toxicity Summary Chronic aquatic toxicity Summary <u>12.2. Persistence and degrad</u> Persistence and degradability	hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. <u>ability</u> The degradability of the product is not known.	
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12.1. ToxicityAcute aquatic toxicitySummaryChronic aquatic toxicitySummary12.2. Persistence and degradPersistence and degradability12.3. Bioaccumulative potentialBioaccumulative potentialPartition coefficient	hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. <u>ability</u> The degradability of the product is not known. <u>al</u>	
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12.1. Toxicity Acute aquatic toxicity Summary Chronic aquatic toxicity Summary 12.2. Persistence and degrad Persistence and degradability 12.3. Bioaccumulative potential Bioaccumulative potential Partition coefficient 12.4. Mobility in soil Mobility 12.5. Results of PBT and vPv	hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. ability The degradability of the product is not known. ai No data available on bioaccumulation. No information available. No data available.	
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13.1. Waste treatment methods

General information	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way.
Disposal methods	Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

National regulationsHealth and Safety at Work etc. Act 1974 (as amended).
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment
Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
EH40/2005 Workplace exposure limits.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

SECTION 16: Other information

used in the safety data sheet R A In R IA IC A L C A L C A L C A C A C C C C C C C C C C C C C C C C C C C C	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by nland Waterways. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. ATA: International Air Transport Association. CAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. MDG: International Maritime Dangerous Goods. CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate. .C50: Lethal Concentration to 50 % of a test population. .D50: Lethal Dose to 50% of a test population (Median Lethal Dose). EC ₅₀ : 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. .PvB: Very Persistent and Very Bioaccumulative.
Training advice O	Only trained personnel should use this material.
Revision date 2	21/09/2022
Revision 3	3
Supersedes date 1	5/09/2022

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