

SB Phosphite 0-32-23 - Safety Data Sheet

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name: **SB Phosphite 0-32-23**

CAS No: 13977-65-6

EC No: 604-162-9

REACH No: 01-2119988836-13-XXXX

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

Product Use: Fertiliser

1.3 Details of the supplier of the safety data sheet

Soil Biology Ltd, Unit 30 Branbridges Industrial Estate, East Peckham, TN12 5HF UK Tel. No. 01892 883759 info@soilbiology.uk

1.4 Emergency telephone number: 01892 883759 (Office hours only)

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification according to 1272/2008 CLP:

Eye Irritation. Cat 2:

2.2 Label elements 1272/2008 CLP:



Hazard pictograms:

Signal word: Warning

Hazard statements: H319 - Causes serious eye irritation

Precautionary statements:

Prevention:

P101: If medical advice is needed, have product container or label at hand

P102: Keep out of reach of children

P264: Wash thoroughly after use

P280: Wear protective gloves/protective clothing/eye protection/face protection

Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention

Storage:

Disposal:

P501: Dispose of contents and / or their container according to the separated collection system used in your municipality

Additional labelling:

2.3 Other hazards: Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1/2 Substance/Mixture: Solution

CAS/EC-nr.	REACH-nr	Name	Content %	Classification CLP
13977-65-6 604-162-9	01-2119988836-13-XXXX	Phosphonic acid, potassium salt (1:1)	50 - <75	Eye Irrit. Cat 2: H319 - Warning

3.3 Additional information:

See full text of H-phrases in section 16. Occupational limits are listed in section 8, if these are available.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General information: The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

Inhalation: This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

Skin contact: In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters...), seek medical advice with this Safety Data Sheet.

Eye contact: Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

Ingestion/aspiration: In case of consumption, seek immediate medical assistance showing the SDS of this product.

4.2 Most important symptoms and effects, both acute and delayed: Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed: Non-applicable

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media: Product is non-flammable under normal conditions of storage, manipulation and use. In the case of

inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture: As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters: Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions: Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilled product (See section 8). Evacuate the area and keep out those who do not have protection.

6.2 Environmental precautions: This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and material for containment and cleaning up: Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

For guidance on selection of personal protective equipment see section 8. For guidance on disposal of spilled material see section 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

See section 8 for recommendations on the use of personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 45 °C

Maximum time: 36 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s): See subsection 1.2. Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits EH40/2007: Substances whose occupational exposure limits have to be monitored in the work environment. There are no occupational exposure limits for the substances contained in the product.

CAS-no:	Name:	Limits 8 h:	Limits 15 min.:	Ref:

DNEL / PNEC: Not applicable

8.2 Exposure controls

Appropriate technical measures:

General information: As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

Personal protective equipment:

Respiratory protection: The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

Hand protection: Protective gloves against minor risks CE CAT I. Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE II gloves in line with standards EN 420 and EN 374.

Eye protection: Panoramic glasses against liquid splash CE CAT II EN 166:2001 EN ISO 4007:2012. Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

Body protection: Work clothing CE CAT I. Anti-slip work shoes CE CAT II EN ISO 20347:2012

Additional emergency measures (good working practice only, not a requirement): Emergency shower and eyewash station

Environmental exposure controls: In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds: With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply): 0 % weight

V.O.C. density at 20 °C: 0 kg/m³ (0 g/L)

Average carbon number: Non-applicable

Average molecular weight: Non-applicable



SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Colour:	Odour:	pH 20C	Viscosity:
Liquid	Not available	Not available	Non-applicable	Dynamic viscosity at 20 °C: 2.36 cP Kinematic viscosity at 20 °C: 2.35 cSt
Flash Point:	Boiling Point:	Vapour Pressure:	Density g/cm ³ :	Melting Point:
Non-Flammable (>60 °C)	100 °C	Vapour pressure at 20 °C: 2350 Pa Vapour pressure at 50 °C: 12381 Pa (12 kPa)	1004 kg/m ³	Non-applicable
Ignition Temperature:	Auto-ignition Temperature:	Explosive limits vol%:	Solubility in water 20C:	
Non-applicable	Non-applicable	Non-applicable	Non-applicable	

9.2 Other information: Non-applicable

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity: No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability: Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions: Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid: Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Combustive materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products: See subsections 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO²), carbon monoxide and other organic compounds.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects: The experimental information related to the toxicological properties of the product itself is not available.

Dangerous health implications: In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure.

Ingestion (acute effect):

Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.

Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Inhalation (acute effect):

Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.

Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Contact with the skin and the eyes (acute effect):

Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for skin contact. For more information see section 3.

Contact with the eyes: Produces eye damage after contact.

CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.

Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Sensitising effects:

Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.

Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Specific target organ toxicity (STOT) - single exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Aspiration hazard: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Additional information: Non-applicable

SECTION 12. ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available.

12.1 Toxicity: Not available

12.2 Persistence and degradability: Not available

12.3 Bioaccumulative potential: Not available

12.4 Mobility in soil: Not available

12.5 Result of PBT and vPvB assessment: Non-applicable

12.6 Other adverse effects: Not described

SECTION 13. DISPOSAL CONSIDERATIONS

Type of waste (Regulation (EU) No 1357/2014): HP4 Irritant — skin irritation and eye damage

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) n°1907/2006 (REACH) the community or state provisions related to waste management are stated Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

13.1 Waste treatment methods: Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

EWC:

Contaminated packing: The same as the product itself.

SECTION 14. TRANSPORT INFORMATION

	ADR/RID	IMDG/IMO
14.1 UN number	This product is not regulated for transport (ADR/RID, IMDG, IATA)	
14.2 UN proper shipping name		
14.3 Transport hazard class(es)		
14.4 Packing group		
14.5 Environmental hazards – MP		
Other information		

14.6 Special precautions for user: -

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBCCode:

SECTION 15. REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Other regulatory information authorisations and/or restrictions on use:

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH,

etc): Non-applicable

Additional information: The product could be affected by sectorial legislation, Regulation (EC) No 2003/2003 of the European Parliament and of the Council of 13 October 2003 relating to fertilisers

15.2 Chemical safety assessment: The supplier has not carried out evaluation of chemical safety.

SECTION 16. OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EU) N° 453/2010, Regulation (EC) N° 2015/830)

Full text of H-phrases as mentioned in section 2: H319: Causes serious eye irritation

Advice related to training: Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://esis.jrc.ec.europa.eu>

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

BLEVE: Boiling Liquid Expanding Vapour Explosion

CMR: Carcinogenic, mutagenic, reprotoxic

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol–water partition coefficient

Koc: Partition coefficient of organic carbon

STOT: Specific target organ toxicity

Additional information:

This SDS summarises our best knowledge of the health and safety hazards information about the production and how to handle the product.

The information contained in this SDS, as of the issue date, is believed to be true and correct. However, accuracy or completeness of this information, and any recommendations and suggestions, are made without warranty and guarantee. Since the conditions of use are beyond the control of Soil Biology Ltd, it is the responsibility of the distributor and user to determine the conditions of safe use of this product.

Every effort has been made to ensure this product contains no sharp fragments or regenerative plant parts.

However, Soil Biology Ltd cannot guarantee they will never be present.

Date: March 2022