

Page 1/10

# Safety data sheet according to UK REACH (SI 2020/1577) as amended

Printing date 15.03.2025

Version number 2

Revision: 15.03.2025

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
- · Trade name: BOP
- · Product Code: 60-1004-01, 60-1004-05
- CAS Number: 56602-33-6
- **EC number:** 260-279-1
- · Registration number Exempt: <1 Te/A
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Product category
- PC19 Intermediate
- PC21 Laboratory chemicals
- · Application of the substance / the mixture Intermediate for organic synthesis
- Uses advised against Any use not specified above.

### $\cdot$ 1.3 Details of the supplier of the safety data sheet

- Supplier: Severn Biotech Ltd. Unit 2, Park Lane, Kidderminster, Worcestershire. DY11 6TJ UK Tel: 0044 1562 825286 Fax: 0044 1562 825284 email: info@severnbiotech.com
- · Further information obtainable from: Product safety department.
- · 1.4 Emergency telephone number:

Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111

# **SECTION 2: Hazards identification**

# $\cdot$ 2.1 Classification of the substance or mixture

· Classification according to GB-CLP

Flam. Sol. 1 H228 Flammable solid.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

· 2.2 Label elements

• Labelling according to GB-CLP The substance is classified and labelled according to the GB CLP regulation.

· Hazard pictograms





Page 2/10

# Safety data sheet according to UK REACH (SI 2020/1577) as amended

Printing date 15.03.2025

Version number 2

Revision: 15.03.2025

### **Trade name: BOP**

	(Contd. of page 1)		
· Signal word Dange	er		
· Hazard statements	8		
H228 Flammable so	olid.		
H315 Causes skin i	rritation.		
H319 Causes seriou	is eye irritation.		
H335 May cause re	spiratory irritation.		
· Precautionary stat	tements		
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.		
P261	Avoid breathing dust.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present		
:	and easy to do. Continue rinsing.		
P405	Store locked up.		
P501	Dispose of contents/container in accordance with local regulations.		
· Additional inform	ation:		
EUH044 Risk of ex	EUH044 Risk of explosion if heated under confinement.		
· 2.3 Other hazards			
· Results of PBT and	d vPvB assessment		
· PBT: Not applicable	• <b>PBT:</b> Not applicable.		
• <b>vPvB:</b> Not applicat	vPvB: Not applicable.		

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

- · 3.1 Substances
- · CAS No. Description
- CAS: 56602-33-6 tri(dimethylamino)benzotriazol-1-yloxyphosphonium hexafluorophosphate
- · Identification number(s)
- EC number: 260-279-1

## **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- If skin irritation continues, consult a doctor.
- · After eye contact:
- Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing:
- Rinse out mouth and then drink plenty of water.
- Do not induce vomiting; call for medical help immediately.

If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

- Information for doctor: Treat symptomatically and supportively.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

GB



Page 3/10

# Safety data sheet according to UK REACH (SI 2020/1577) as amended

Printing date 15.03.2025

Version number 2

Revision: 15.03.2025

(Contd. of page 2)

## Trade name: BOP

# **SECTION 5: Firefighting measures**

#### · 5.1 Extinguishing media

## · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

· For safety reasons unsuitable extinguishing agents: Water with full jet

## • 5.2 Special hazards arising from the substance or mixture

As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

Phosphorous oxides

Hydrogen fluoride (HF)

Heating may cause an explosion.

# · 5.3 Advice for firefighters

# · Protective equipment:

Do not inhale explosion gases or combustion gases. Wear fully protective suit.

Wear self-contained respiratory protective device.

• Additional information Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. It must not enter the sewage system.

# **SECTION 6: Accidental release measures**

· 6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Avoid formation of dust.
Ensure adequate ventilation
Keep ignition sources away - no smoking.
· 6.2 Environmental precautions:
Do not allow product to reach sewage system or any water course.
Do not allow to penetrate the ground/soil.
Inform respective authorities in case of seepage into water course or sewage system.
· 6.3 Methods and material for containment and cleaning up:
Pick up mechanically.
Use spark-proof tools and explosion-proof equipment.
Ensure adequate ventilation.
Send for recovery or disposal in suitable receptacles.
6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

(Contd. on page 4)

GB



Page 4/10

# Safety data sheet according to UK REACH (SI 2020/1577) as amended

Printing date 15.03.2025

Version number 2

Revision: 15.03.2025

## Trade name: BOP

# **SECTION 7: Handling and storage**

## · 7.1 Precautions for safe handling

Prevent formation of dust.

Ensure good ventilation/exhaustion at the workplace.

Safety showers and eye wash facilities should be available at the work area.

## · Information about fire - and explosion protection:

There is a risk of a dust explosion if the following conditions are met:

- The substance is present in very finely distributed form (powder, dust).

- The substance is whirled up in sufficient quantity in the air.

- An ignition source is present (flame, spark, electrostatic discharge, etc.)
- Keep ignition sources away Do not smoke.

Protect from heat.

Protect against electrostatic charges.

# · 7.2 Conditions for safe storage, including any incompatibilities

- · Storage:
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- Prevent any seepage into the ground.
- · Information about storage in one common storage facility: Store away from oxidising agents.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.
- · Storage class: 4.1 B
- 7.3 Specific end use(s) No further relevant information available.

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

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not breathe dust

Do not eat, drink, smoke or sniff while working.

Ensure that eyewash stations and safety showers are close to the workstation location.

A safe system of work must be formulated and followed to ensure safe working with this product. Relevant workers must receive suitable and sufficient training and supervision.

• **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

· Hand protection



#### Protective gloves.

Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

(Contd. of page 3)



Page 5/10

# Safety data sheet according to UK REACH (SI 2020/1577) as amended

Printing date 15.03.2025

Version number 2

Revision: 15.03.2025

(Contd. of page 4)

## Trade name: BOP

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Nitrile rubber, NBR

Neoprene gloves

Natural rubber, NR

PVC gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- · Penetration time of glove material
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### · 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).

#### · Body protection:



Flame retardant antistatic protective clothing.

Body protection must be chosen depending on product properties, activity and possible exposure.

- · Environmental exposure controls Do not let product enter drains. Risk of explosion.
- · Risk management measures The operators shall be instructed adequately.

SECTION 9: Physical and chemical properties • 9.1 Information on basic physical and chemical properties		
· Physical state	Solid	
· Colour:	White	
· Odour:	Mild	
· Odour threshold:	Not determined.	
<ul> <li>Melting point/freezing point:</li> </ul>	136 - 140 °C	
· Boiling point or initial boiling point and boiling rai	nge Undetermined.	
· Flammability	Highly flammable.	
· Lower and upper explosion limit		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Flash point:	Not applicable.	
· Decomposition temperature:	Not determined.	
· pH	Not applicable.	
· Viscosity:	••	
· Kinematic viscosity	Not applicable.	
· Dynamic:	Not applicable.	
· Solubility	••	
· water:	Not determined.	
· Partition coefficient n-octanol/water (log value)	Not determined.	
· Vapour pressure:	Not applicable.	
	(Contd on page)	



Page 6/10

# Safety data sheet according to UK REACH (SI 2020/1577) as amended

Printing date 15.03.2025

Version number 2

Revision: 15.03.2025

#### **Trade name: BOP**

	(Contd. of page 5
· Density and/or relative density	
Density:	Not determined.
· Relative density	Not determined.
Vapour density	Not applicable.
9.2 Other information	
· Appearance:	
· Form:	Powder
Important information on protection of healt	h and
environment, and on safety.	
Ignition temperature:	Not determined.
• Explosive properties:	Product is not explosive. However, formation of explosive
	air/dust mixtures are possible.
Change in condition	
· Evaporation rate	Not applicable.
· Information with regard to physical hazard clas	ises
· Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
· Gases under pressure	Void
Flammable liquids	Void
· Flammable solids	Burning rate or burning time: ≥2.2 mm/s or <45 seconds
	Wetred zone passed: Yes
Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable	e gases
in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

# **SECTION 10: Stability and reactivity**

- $\cdot$  10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Light sensitive.

Moisture sensitive.

· Thermal decomposition / conditions to be avoided:

There is a risk of a dust explosion if the following conditions are met:

- The substance is given in very finely distributed form (powder, dust).

- The substance is whirled up in sufficient quantity in the air.

- An ignition source is present (flame, spark, electrostatic discharge, etc.)

• 10.3 Possibility of hazardous reactions Reacts violently with oxidising agents.

• 10.4 Conditions to avoid Heat and static discharge.

 $\cdot$  10.5 Incompatible materials: Strong oxidising agents.



Page 7/10

# Safety data sheet according to UK REACH (SI 2020/1577) as amended

Printing date 15.03.2025

Version number 2

Revision: 15.03.2025

(Contd. of page 6)

## Trade name: BOP

• **10.6 Hazardous decomposition products:** Hydrogen fluoride Nitrogen oxides (NOx) Phosphorus oxides (e.g. P2O5) Carbon monoxide and carbon dioxide

# **SECTION 11: Toxicological information**

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- $\cdot$  Skin corrosion/irritation
- Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure
- May cause respiratory irritation.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties Substance is not listed.

# **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability biodegradable
- · 12.3 Bioaccumulative potential Product is not expected to bioaccumulate.
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## **SECTION 13: Disposal considerations**

## · 13.1 Waste treatment methods

- · Recommendation
- Recommended Hierarchy of Controls:
- Minimise waste;
- Reuse if not contaminated;
- Recycle, if possible; or



Page 8/10

# Safety data sheet according to UK REACH (SI 2020/1577) as amended

Printing date 15.03.2025

Version number 2

Revision: 15.03.2025

(Contd. of page 7)

## Trade name: BOP

- Safe disposal (if all else fails).

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation. Do not mix with other waste streams.

· Uncleaned packaging:

## · Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Disposal must be made according to official regulations.

Container remains hazardous when empty. Continue to observe all precautions.

Containers, even those that are "empty," may contain residues that can develop flammable vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

#### · Recommended cleansing agents: Large quantities of water

SECTION 14: Transport information		
· 14.1 UN number or ID number · ADR/RID/ADN, IMDG, IATA	UN1325	
<ul> <li>· 14.2 UN proper shipping name</li> <li>· ADR/RID/ADN</li> </ul>	UN1325 FLAMMABLE SOLID, ORGANIC, N.O.S (tri(dimethylamino)benzotriazol-1-yloxyphosphonium hexafluorophosphate)	
· IMDG, IATA	FLAMMABLE SOLID, ORGANIC, N.O.S (tri(dimethylamino)benzotriazol-1-yloxyphosphonium hexafluorophosphate)	
· 14.3 Transport hazard class(es)		
· ADR/RID/ADN, IMDG, IATA		
· Class	4.1 Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives	
· Label	4.1	
· 14.4 Packing group · ADR/RID/ADN, IMDG, IATA	II	
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No	
· 14.6 Special precautions for user	Warning: Flammable solids, self-reactive substances polymerizing substances and solid desensitized explosives	
	1Z	
· Hazchem Code:		
<ul> <li>Hazchem Code:</li> <li>Stowage Category</li> <li>Segregation Code</li> </ul>	B SG72 See 7.2.6.3.2.	



Page 9/10

# Safety data sheet according to UK REACH (SI 2020/1577) as amended

Printing date 15.03.2025

Version number 2

Revision: 15.03.2025

### **Trade name: BOP**

	(Contd. of page 8
• 14.7 Maritime transport in bulk according instruments	to IMO Not applicable.
· Transport/Additional information:	
<ul> <li>ADR/RID/ADN</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1 kg Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1 kg Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· UN "Model Regulation":	UN 1325 FLAMMABLE SOLID, ORGANIC, N.O.S. (TRI(DIMETHYLAMINO)BENZOTRIAZOL-1- YLOXYPHOSPHONIUM HEXAFLUOROPHOSPHATE). 4.1, II

## **SECTION 15: Regulatory information**

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

- · Poisons Act
- · Regulated explosives precursors Substance is not listed.
- Regulated poisons Substance is not listed.
- · Reportable explosives precursors Substance is not listed.
- · Reportable poisons Substance is not listed.

#### · Control Of Major Accident Hazards Regulations 2015 (COMAH)

- · Named dangerous substances ANNEX I Substance is not listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

#### · Training hints

This product should only be handled by workers who have received sufficient training in the safe handling and use of chemical products.

· Department issuing SDS: Product safety department.

#### · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

(Contd. on page 10)



Page 10/10

# Safety data sheet according to UK REACH (SI 2020/1577) as amended

Printing date 15.03.2025

Version number 2

Revision: 15.03.2025

## Trade name: BOP

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Sol. 1: Flammable solids – Category 1

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

 $\cdot$  \* Data compared to the previous version altered.

(Contd. of page 9)

GB