

SAFETY DATA SHEET

FOR INDUSTRIAL USE ONLY SYNOXOL(TM) BEPD

Section 1. Identification

Product name : SYNOXOL(TM) BEPD

MSDS Number : 30000030516
Chemical name : Not available.
Other means of identification : Not available.
Product type : Not available.

Manufacturer/Supplier/Impor : S

ter

Synthomer Speciality Additives AB.

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Section 2. Hazards identification

EMERGENCY OVERVIEW:

Form: solid Color: White Odor: mild

Causes serious eye irritation.

Classification of the substance or

mixture

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

ACUTE TOXICITY:ORAL - Category 5

GHS label elements

Hazard pictograms :

(!)

Signal word : Warning

Hazard statements : Causes serious eye irritation.

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Precautionary statements

General : Not applicable.

Prevention: Wear protective gloves and eye or face protection.

Wash hands thoroughly after handling.

Response : IF IN EYES:

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical attention.

Storage : Not applicable.

Disposal : Not applicable.

Physical/chemical hazards : Not applicable.

Human health hazards : Causes serious eye irritation.

Environmental hazards : Not applicable. **Other hazards which do not result** : None known.

in classification

Section 3. Composition/information on ingredients

Substance/mixture: SubstanceChemical name: Not available.Other means of identification: Not available.

CAS number/other identifiers

CAS number : Not available. **EC number** : Not available.

Hazardous ingredient name	% by weight	CAS number
2-butyl-2-ethylpropanediol	100	115-84-4

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the

upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable

for breathing. If not breathing, if breathing is irregular or if

respiratory arrest occurs, provide artificial respiration or oxygen by

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trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash

clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim

to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie,

belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain or irritation

watering

redness

Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without

suitable training. It may be dangerous to the person providing aid to

give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

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Suitable extinguishing media Unsuitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

: water jet

Specific hazards arising from the chemical

Hazardous thermal decomposition products

: No specific fire or explosion hazard.

: No specific data.

Special protective actions for firefighters Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without

suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal

protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil,

waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil

or air).

Methods and materials for containment and cleaning up

Small spill : Move containers from spill area. Vacuum or sweep up material and

place in a designated, labeled waste container. Dispose of via a

licensed waste disposal contractor.

Large spill : Move containers from spill area. Approach release from upwind.

Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information

and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the

original container or an approved alternative made from a compatible

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Advice on general occupational hygiene

material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Recommended monitoring procedures

:

Appropriate engineering controls

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

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Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state : solid Color : White

Odor : mild

Odor threshold : Not available. pH : Not applicable

Melting point : $41 \, ^{\circ}\text{C} \, (106 \, ^{\circ}\text{F})$

Boiling point : $264 \,^{\circ}\text{C} \, (507 \,^{\circ}\text{F})$

Flash point : $136 \,^{\circ}\text{C} \, (277 \,^{\circ}\text{F})$

Burning time: Not available.Burning rate: Not available.Evaporation rate: Not available.

Flammability (solid, gas)

Non-flammable.

Lower and upper explosive

(flammable) limits

Lower: Not available. Upper: Not available.

Vapor pressure : Not available.
Vapor density : Not available.

Relative density : 0.97

Solubility : Not available.

Solubility in water : $8.8 \text{ g/l} @ 20 \text{ }^{\circ}\text{C} (68 \text{ }^{\circ}\text{F})$

Partition coefficient: n- : Not available.

octanol/water

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Auto-ignition temperature : Not applicable

Decomposition temperature : Not available. **SADT** : Not available.

Viscosity : Dynamic: Not available.
Kinematic: Not available.

Other information

No additional information.

Section 10. Stability and reactivity

Reactivity : Stable under normal conditions.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will

not occur.

Conditions to avoid: No specific data.Incompatible materials: Strong reducing agent.

Hazardous decomposition : Under normal conditions of storage and use, hazardous

products decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	
2-butyl-2-ethylpropanediol					
	LD50 Oral	Rat	2,900 mg/kg	-	
	LD50 Dermal	Rat	2,000 mg/kg	=	İ

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-butyl-2-ethylpropanediol					-
Remarks:	Non-irritant to	o skin.			

Conclusion/Summary

Skin: Not available.Eyes: Not available.Respiratory: Not available.

Sensitization

Product/ingredient name	Route of exposure	Species	Result

Conclusion/Summary

Skin: No known significant effects or critical hazards.Respiratory: No known significant effects or critical hazards.

Mutagenicity

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Conclusion/Summary : No mutagenic effect.

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
SYNOXOL(TM) BEPD				
Remarks:	No carcinogenio	e effect.		

Conclusion/Summary : Based on available data, the classification criteria are not met.

Reproductive toxicity

Conclusion/Summary : No known significant effects or critical hazards.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes

Not available.

of exposure

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

pain or irritation

watering

redness

Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

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Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary : Not available.

General: No known significant effects or critical hazards.Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Ecotoxicity

Product/ingredient name	Result	Species	Exposure
SYNOXOL(TM) BEPD			
Remarks - Acute - Micro-	Low Toxicity to aquatic organisms.		
organism:			

Conclusion/Summary : Not available.

Persistence/degradability

Conclusion/Summary : Not readily biodegradable.

Bioaccumulative potential:

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-butyl-2-ethylpropanediol	2.2	-	low

Mobility in soil

Soil/water partition coefficient

Not available.

(KOC)

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products

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should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

International transport regulations

Regulatory	UN	Proper shipping name	Classes/PG*	Additional
information	number			information
CD 10000		XY 1 . 1		

GB 12268 Non-regulated

IMO/IMDG Non-regulated

IATA Non-regulated

(Cargo)

PG*: Packing group

Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

Not available.

Section 15. Regulatory information

National regulations

The following regulations, rules or standards set forth the requirement for the use, handling, storage, transportation, classification and labeling of chemical product.

- · Regulations on Safety Administration of Hazardous Chemicals
- Regulation of Safety Use Chemicals at Workplace
- Regulations on Labor Protection in Workplaces Where Toxic Products Are Used
- GB/T 16483: Safety data sheet for chemical products Content and order of sections

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- GB 15258: General rules for preparation of precautionary label for industrial chemicals
- GB 30000.2 ~ GB 30000.29: Rules for classification and labelling of chemicals
- GB 13690: General rule for classification and hazard communication of chemicals
- GB 12268: List of dangerous goods
- GB 6944: Classification and code of dangerous goods
- GB 190: Labels for packages of dangerous goods
- GB/T 15098: The principle of classification of transport packaging groups of dangerous goods
- GBZ 2.1: Occupational Exposure Limits for Hazardous Agents in the Workplace, Part 1, Chemical Hazardous Agents

Treat and dispose of the waste in compliance with the applicable environmental protection and waste disposal legislation.

Section 16. Other information

History

Date of printing: 2021.01.07Date of issue/Date of revision: 0000.00.00Date of previous issue: 2021.01.05Version: 0.0

Prepared by

Key to abbreviations

: Product Safety Stewardship

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

References : Not available.

Notice to reader

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.