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 Section 1: Identification of the substances/mixture and of the company/undertaking.
 

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### 1.1 Product identifier

Product name:

**SharkDispersionWX2™**

Synonyms: PVB, Polyvinylbutyraldehyde, Polyvinylbytyral, -dispersion.

Prepared by: Shark Solutions BVBA, Belgium - as a 100 % recycled material.

### 1.2 Relevant identified uses, and uses advised against

Paint/Coatings

Uses advised against: None known

Shark Solutions ApS REACH preregistration submission number: **FB207936-51**

### 1.3 Details of the supplier and the supplier of the SDS

MANUFACTURER/SUPPLIER:  <b>Shark Solutions BVBA</b>  Address: Fabrieksstraat 145 BE-3900 Overpelt	SDS data:  <b>Shark Solutions ApS</b>  Address: Industrivej 21 DK-4000 Roskilde  Att: Chemist R&D / Frank Mundt +45 24 43 99 94 frank.mundt@shark-solutions.com
Head-Office: +45 30 33 06 65 (DK)	Email: partner@shark-solutions.com

Company website for further reference: [www.shark-solutions.com](http://www.shark-solutions.com)

### 1.4: Emergency telephone number:

EMERGENCY PHONE: +45 24 43 99 94

Section 1 notes:



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**Section 2: Hazards identification**

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**2.1 Classification of the substance or mixture**

This product is not classified as hazardous or toxic in the GHS framework.

This product has not been classified as hazardous per the present legislation in force.

This product and components hereof, including traces of contamination from waste mining resources as heavy elements, toxins and bio traces, do not appear in TSCA, ECHA or any known national or international inventory listing of hazardous or potentially hazardous substances.

**Hazard summary**

Physical hazards: Not classified as hazardous.

Health hazard: None known

Eye contact: Accidental direct splashing or accidental direct spraying in unprotected eyes will be irritating to eyes. Exposed individuals may experience eye tearing, redness and discomfort.

Skin contact: Contact to unprotected skin: No more than slightly irritating to skin. No more than slightly toxic if absorbed. Prolonged and repeated daily skin-contact has to be avoided by use of protecting clothes, goggles, gloves and splash protecting screens.

Ingestion: Accidental ingestion: No more than slightly toxic if swallowed. Significant adverse health effects are not expected to develop if only small amounts (less than a mouthful) are swallowed.

Inhalation: Accidental inhalation of vapors during drying or spray-fog from spray coat machines leads to no significant hazard if properly recommended and adjusted breathing protection is used in working surroundings.

Environmental hazards by accidental release to waterways:

Water Hazard Class: WGK 1, slightly water-endangering.

RCRA Hazard class: None known

Acute health hazards: No significant hazards associated with this product.

Chronic health hazards: No significant hazards associated with this product.

Medical conditions generally aggravated by exposure: None known.

Potential Physical/Chemical hazard: Wet spilled material may form extremely slippery surfaces.

Emergency overview:

Low hazard for usual handling and industrial processing for trained personnel.

Routes of entry: Contact with unprotected eyes or skin and unprotected breathing.

Form: Liquid

Color: Colorless clear to white or light grey opaque, Opaque white color.

Odor: Mild to odorless

**2.2 Labeling**

None

**2.3 Other hazards**

Wet spilled material may form extremely slippery surfaces.

Section 2 notes:

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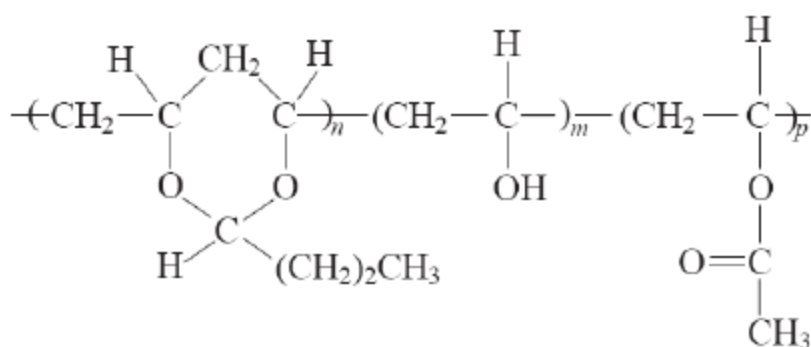
### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical name: Recycled PVB, Polyvinylbutyral

Chemical family: Polymers, dispersions

Chemical formula of polymer:



Components:	CAS no.	Min WT %	Max WT %	Notes
Polyvinylbutyral	63148-65-2	36	44	none
Triethyleneglycol bis (2-ethylhexanoate)	94-28-0	2	15	none
Water	7732-18-5	50	55	none
Proprietary compounds	n.a.	0	5	none
Acticide MBS™	n.a.	0,05	0,06	none
Mergal 753 F™	n.a.	0,07	0,08	none

Notes, if applicable:

#This substance has workplace exposure limits

PBT: Persistent, Bioakkumulative and Toxic substance

vPvB: very Persistent and very Biopaccumulative substance

### Classification

Chemical name	Classification		Notes
Polyvinylbutyral, PVB	DSD	Not classified according to D 67/548/EEC	none
Polyvinylbutyral, PVB	CLP	Not Classified Regulation No. 1272/2008	none
Benzisothiazolinone (BIT)	(EUH 208)	US EPA Registration No. 67071-29	<375 ppm



Methylisothiazolinone(MIT)	(EUH 208)	US EPA Registration No. 67071-29	<15 ppm
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The full text for all R-phrases, H-statements and S-statements is displayed in section 16.  
The biocide protection of the product are by the Acticide MBS™ and Mergal 753 F™. Further specific information on these products can be obtained at:

Acticide MBS™ <https://www.thor.com/>

Mergal 753 F™ <http://www.troycorp.com/>

The product and constituents in the actual concentrations are not listed in inventories of REACH, EU(PIC), TSCA(USA), DSL (Canada), AICS (Australia), ECL (Korea), ENCS/MITI (Japan), IECSC (China), PICCS (Philippines), US(TSCA), New Zealand(NZIOC), Taiwan(TCSI), as well as GHS.

Neither the product, the product family of dispersions from Shark Solutions BVBA, nor disintegration products under non-chemical reactions, as well as proprietary components and their originating potentially harmless plant or mineral oils, are listed or is banned in either REACH/ECHA inventories, TSCA lists or in FDA context.

This regulatory status is checked every quart year, latest by  
**31-03-2020**

Section 3 notes:



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Section 4: First aid measures

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**4.1 Description of first aid measures**

Eyes: The material can be removed with water. Remove contact lenses if possible and flush with plenty of water at least 30 minutes. Seek medical attention for inspection of the eye and the vicinity hereof.

Skin: Immediate first aid is not likely to be required. The material can be removed with water. Flush with plenty of water while or after removing contaminated clothes and shoes. Wash contaminated clothing before reuse. Get medical attention if symptoms arise.

Ingestion: Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. A physician or Poison Control Center should be contacted for advice and observation.

Inhalation: Immediate first aid is not likely to be required. Get medical attention if symptoms arise.

**4.2 Most important symptoms and effects, both acute and delayed**

None known

**4.3 Indication of any immediate medical attention and special treatment needed**

Hazards: None known

Treatment: Treat symptomatically

Section 4 notes:

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Section 5: Fire-fighting measures

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General Fire Hazards: None known

**5.1 Extinguishing media**

Water spray, foam, halon, dry chemical or carbon dioxide

**5.2 Special Hazards**

Unusual fire and explosion hazards: The dried product may form dust from abrasion and can accumulate electrostatic charges, which may form electric discharges (ignition source). Use proper electrical grounding methods where airborne dust, film flakes or powder is moved mechanically.

Hazardous decomposition products: Acrolein, crotonaldehyde, butyraldehyde, n-butanol, 2-butoxyethanol, butyric acid, methanol, formic acid, hydrocarbons, carbonmonoxide and carbondioxide.

Flammability: Dry material that must be heated locally to more than 380 °C before ignition can occur.



### **5.3 Advice for firefighters**

Special firefighting procedures:

In case of fire: Evacuate area. Use water spray to keep fire exposed containers cool. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.

Special protective equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Section 5 notes:

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## Section 6: Accidental release measures

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### **6.1 Personal precautions, protective equipment and emergency procedures**

No action shall be taken involving any personal risk without suitable and completed training. Use personal protection measures as described in section 8.

### **6.2 Environmental precautions: Keep out of drains and water courses**

Prevent further leakage or spillage if safe to do so. Clean up spills immediately and dispose of waste safely. Do not contaminate water sources, drainage or sewer.

### **6.3 Methods and material for containment and cleaning up:**

In case of spill: Scoop, sweep, or vacuum and remove in a clearly labeled container for chemical waste.

In case of an accidental spill or release to the environment notify relevant authorities in accordance with all applicable regulations.

Refer to section 13 for disposal information and section 15 for reportable quantity information.

Section 6 notes:



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Section 7: Handling and storage

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**7.1 Precautions for safe handling**

Handle in accordance with good industry hygiene and safety practices to minimize dust production. Vacuum using a wet-vacuum or a HEPA equipped vacuum cleaner. Avoid the use of compressed air for cleaning. Take precautionary measures to avoid electrostatic discharges.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep away from heat, sparks and open flame. Empty containers or bags retain product residue. Observe all recommended safety precautions until container is cleaned, reconditioned or destroyed. The use of this material's container for non-industrial purposes is prohibited and any reuse must be in consideration of the data provided in this SDS. Storage: Keep the containers tightly closed. Store in a cool, dry place out of sunlight. Be aware that our dispersions once exposed to air will form a film on surface. General: Stable under normal conditions of handling and storage. Avoid storage near oxidizing chemicals.

**7.3 Specific end uses**

Coatings, binders, inks, adhesives, toners and compounds.

Section 7 notes:

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Section 8: Exposure controls/personal protection

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**8.1 Occupational exposure limits**

Country specific or general exposure limits have not been established or are not applicable.

**8.2 Exposure control**

Ventilation:

Provide adequate ventilation. Ventilate as needed to control airborne particles levels below the occupational safety limits, typically 10 air changes per hour. If applicable use process enclosures and local exhaust ventilation.

Individual protection measures, such as personal protective equipment

General information:

Make access to emergency eye bath station and general washing facilities.



**Respiratory protection:**

This material is not likely to present an airborne exposure concern under normal conditions of use. Use an approved respiratory unit and if uncontrolled releases must be cleaned use a positive pressure respiratory system.

**Eye protection:**

Use good industrial practice to avoid eye contact. Wear safety glasses with side shields or goggles.

**Skin protection:**

Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wash thoroughly with soap after handling. Wear appropriate clothing to avoid prolonged skin-contact.  
Wearing protective gloves is recommended.

**Respiratory protection:**

An air-purifying respirator with an appropriate approved air purifying filter, cartridge or canister is recommended to be used when spray-techniques are applied.

Exposure guidelines: Airborne exposure limits: (mg/m<sup>3</sup> = ppm) OSHA and/or ACGIH have not established specific exposure limits for this material. However, they have established limits for particulates not otherwise regulated (PNOR) and particulates not otherwise classified (PNOC) respectively, which are the least stringent exposure limits applicable to airborne particles:

ACGIH TLV: 10mg/m<sup>3</sup> (total dry dust) 8-hr TWA  
ACGIH TLV: 3mg/m<sup>3</sup> (respirable) 8-hr TWA  
OSHA Z-1 PEL: 15mg/m<sup>3</sup> (total dry dust) 8-hr TWA  
OSHA Z-1 PEL: 5mg/m<sup>3</sup> (respirable) 8-hr TWA

**Hygiene measures:**

Observe good industrial hygiene practices.

**Environmental controls:**

No data available.

**Section 8 notes**





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Section 9: Physical and chemical properties

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**9.1 Information on basic physical and chemical properties**

Appearance: Milky white to grey opaque liquid.

Odor: Odorless

Physical state: Liquid

Specific gravity – condensed material (H<sub>2</sub>O = 1): 1.03 @ 20 °C

Auto ignition temperature: not applicable for dispersion, for dry content alone > 380 °C

Flash Point: not applicable for dispersion, if individual constituents are considered alone the TEG plasticizer has a flashpoint of 199 °C (Pensky-Martens Closed Cup)

Solubility in water: Mixable but may separate if pH changes by dilution.

Additional technical information is available by requiring the technical data sheet, TDS.

Section 9 notes:

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Section 10: Stability and reactivity

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**10.1 Reactivity**

Stability: Stable under normal conditions.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

None under normal conditions.

**10.4 Conditions to avoid**

All sources of ignition and strong oxidizers. All kinds of leaking of the containers.

**10.5 Incompatibility**

Strong oxidizing agents, acids and salts containing cations with a considerable ionic strength.



### 10.6 Hazardous decomposition or by-products when heated to decomposition

Butyraldehyde; butyric acid; acrolein; crotonaldehyde; methanol; formic acid; carbon monoxide; carbon dioxide

### 10.7 Hazardous polymerization

Hazardous polymerization does not occur.

Section 10 notes:

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### Section 11: Toxicological information

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This product has not been tested for toxicity, but data obtained on similar products are summarized below:

#### Information on likely routes of exposure:

Inhalation: None known  
Ingestion: None known  
Skin contact: None known  
Eye contact: None known

### 11.1 Information on toxicological effects

Acute toxicity

Oral:

Product: No data available

Specified substances:

PVB: Oral LD50: (rat) >10000mg/kg Not classified for acute toxicity on available data

Results of single exposure (acute) toxicity studies conducted on similar materials indicate that these products are practically nontoxic orally and after skin application.

Section 11 notes:



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Section 12: Ecological information

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Shark Solutions ApS has not conducted environmental toxicity, accumulation, mobility or biodegradation studies with this material, but recommends extensive use of recycling techniques for the product and waste products by the process in mention.

Section 12 notes:

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Section 13: Disposal considerations

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**13.1 Waste treatment methods**

Disposal considerations: Incineration or Recycling.

This product should not be dumped, spilled, rinsed or washed into sewers or public waterways.

RCRA hazard class: None known.

Section 13 notes:

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Section 14: Transport information

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Dangerous goods ADR	Status: No	Class not regulated
Dangerous goods RID	Status: No	Class not regulated
Dangerous goods IMDG	Status: No	Class not regulated
Dangerous goods ICAO/IATA	Status: No	Class not regulated

GHS, not dangerous, nonflammable and nontoxic – no regulatory status.

Section 14 notes:



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Section 15: Regulatory information

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The product complies TSCA (USA), EU(PIC), DSL (Canada), AICS/NICNAS (Australia), ECL (Korea), ENCS/MITI (Japan), IECSC (China), PICCS (Philippines), US(TSCA), China(IECSC), New Zealand(NZIOC), Taiwan(TCSI) as well as GHS.

Neither the product, the product family of dispersions from Shark Solutions BVBA, nor disintegration products under non-chemical reactions, as well as proprietary components and their originating potentially harmful plant or mineral oils, are listed as potentially harmful or is banned in either TSCA lists or in FDA context.

This regulatory status is checked every half year, latest by  
**31-03-2020**

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

Water Hazard Class (WGK)  
WGK 1: Slightly water-endangering

**15.2 Chemical safety assessment**

None.

Section 15 notes:



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Section 16: Other information

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Revision information:  
**version 3.3**

Issue date:  
**31-03-2020**

Key literature references and sources for data:  
No data available

Wording of the R-phrases, H-statements, S-statements and EUH labelling in section 2 and 3:  
None.

Training information:  
No data available

**Disclaimer:**

Shark PVB is a 100 % recycled product from industrial waste manufactured under intensive care and quality control, ensuring that no other supply chain of not controlled raw material is introduced in the finished recycled product.

The information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof, Shark Solutions ApS makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition, that the persons receiving same, will make their own determination as to its suitability for their purposes prior to use. In no event, will Shark Solutions ApS be responsible for damages of any nature whatsoever, resulting from the use of or reliance upon information.

**NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PURPOSE OR OF ANY OTHER NATURE ARE MADE WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH THIS INFORMATION REFERS.**

**This information should be used to make an independent determination of the methods to safeguard workers and the environment.**

Section 16 notes:

