## pmc 6 biogenix

# SAFETY DATA SHEET

Complies with 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Date of issue : 27 March 2023

Date of revision : 27 March 2023

Version : 0.01

Section 1. Identification of the substance/mixture and of the company/ undertaking		
Product name	: INDUSTRENE® B; INDUSTRENE® B LP [ALL GRADES]	
SDS #	: BINDB	
Product code	ode : 10374; 10377; 10379; 10382; 10385; 11241; 21758; 40581; 40602; 40628; 40660; 4053065	
Chemical name	: stearic acid	
Other means of identification	: Octadecanoic acid; stearic acid, pure; stearic acid, crude; E 570; octadecanoic acid; C18 FATTY ACID; STEARIC ACID 95%; STEARIC ACID 42.5%; STEARIC ACID 37.5%; Cetylacetic acid; 1-Heptadecanecarboxylic acid; n-Octadecanoic acid	
Relevant identified uses of th	e substance or mixture and uses advised against	
Identified uses	: Chemical intermediate	
Uses advised against	: Consumer applications	
Supplier's details	: PMC Biogenix, Inc. 1231 Pope Street Memphis, TN 38108 USA +1-800-641-2152	
Company telephone number	: 800-641-2152	
Emergency telephone number	: Chemtrec 1-800-424-9300; Chemtrec [INT]: +1-703-527-3887	
	Section 2. Hazards identification	
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).	
Classification of the substance or mixture	: COMBUSTIBLE DUSTS	
GHS label elements		
Signal word	: Warning	
Hazard statements	: May form combustible dust concentrations in air.	
Precautionary statements		
Prevention	: Not applicable.	
Response	: Not applicable.	
Storage	: Not applicable.	
Disposal	: Not applicable.	
Supplemental label elements	: Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevent dust accumulation.	
Hazards not otherwise classified	: None known.	

## Section 3. Composition/information on ingredients

Substance/mixture : Substance

Ingredient name	%	CAS number
Stearic acid	100	57-11-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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. Get medical attention if irritation occurs.
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 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. Contact with hot material causes thermal skin burns. In case of burns, immediately cool affected skin with cold water and continue for as long as possible or apply wet cloths to the area until medical attention can be obtained.
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

: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Vapor may be irritating to eyes and respiratory system.
: Contact with hot material causes thermal skin burns.
: No known significant effects or critical hazards.
oms
: Adverse symptoms may include the following: irritation redness
: Adverse symptoms may include the following: respiratory tract irritation coughing
: No specific data.
: No specific data.

# Section 4. First aid measures 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.
  - : No action shall be taken involving any personal risk or without suitable training.

#### See toxicological information (Section 11)

Protection of first-aiders

	Section 5. Fire-fighting measures
Extinguishing media	
Suitable extinguishing media	: Use dry chemical powder.
Unsuitable extinguishing media	: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
Specific hazards arising from the chemical	: May form explosible dust-air mixture if dispersed.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	: 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Remark	: Fine dust clouds may form explosive mixtures with air.

## Section 6. Accidental release measures

Personal precautions, protec	tive 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information ir 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 co	ntainment and cleaning up
Small spill	: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Hazard of slipping on spilled product. Where possible allow molten material to solidify naturally
Large spill	: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. Hazard of slipping on spilled product. Where possible allow molten material to solidify naturally

	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. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	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 a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
Stearic acid	ACGIH TLV (United States, 1/2022). [Stearates] TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction

Appropriate engineering controls	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
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 meas	<u>ures</u>
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.

#### 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.

Section 8. Exposure controls/personal protection		
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: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.	
Skin protection		
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. When handling hot material, wear heat-resistant protective gloves that are able to withstand the temperature of molten product.	
Body protection	<ul> <li>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.</li> </ul>	
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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u>	
Physical state	: Solid. [Powder or flakes.]
Color	: Colorless to light yellow.
Odor	: Characteristic. [Slight]
Odor threshold	: Not available.
рН	: Not applicable.
Melting point/freezing point	: 57 to 59°C (134.6 to 138.2°F) [Analytical method: Internal]
Softening point	: Not applicable.
Sublimation temperature	: Not applicable.
Boiling point, initial boiling point, and boiling range	: 383 to 385.8°C (721.4 to 726.4°F) [Analytical method: Internal]
Flash point	: Open cup: 200°C (392°F) [Cleveland]
Evaporation rate	: Not applicable. [Product type: solid]
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not applicable.
Vapor pressure	: 0 kPa (0 mm Hg) [Product type: solid]
Vapor density	: 9.8 [Air = 1]
Relative density	: 0.83 to 0.94 [Analytical method: Internal]
Density	: 0.536 g/cm <sup>3</sup> [25°C (77°F)] [Analytical method: Internal]
Solubility(ies)	:

## Section 9. Physical and chemical properties

	Media		Result		
	cold water		Not soluble		
	hot water		Not soluble		
acetone			Easily soluble		
Solut	Solubility in water (g/L) : <0.15 g/l		Λ		
	artition coefficient: n- : 8.23 ctanol/water				
Auto-	ignition temperature	: 400°C (	752°F)		
Deco	mposition temperature	: Not ava	ilable.		
Visco	sity	: Not app	licable.		
Partic	cle characteristics				
Media	an particle size	: Not ava	ilable.		
<b>Kst</b> : 106 ba		: 106 bar	.m/s		
Section 10. Stability and reactivity					
React	tivity	: No specific test data related to reactivity available for this product or its ingredients.			
Cherr	nical stability	: The product is stable.			
Possi react	ibility of hazardous ions	: Under normal conditions of storage and use, hazardous reactions will not occur.			
Cond	itions to avoid	: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.			
Incon	npatible materials	oxidizin	active or incompatible with the following materials: dizing materials ong oxidizer		
Hazaı produ	rdous decomposition ucts	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.			
		<b>N</b> = 4 <sup>1</sup> =	44. The side of a side of the formula of the set		

## Section 11. Toxicological information

### Information on toxicological effects

Product/ingredient name	Result	Spec	ies	Dose	Exposure	
Stearic acid	LD50 Dermal LD50 Oral	Rabb Rat		>5 g/kg 4600 mg/kg		
Conclusion/Summary rritation/Corrosion	: Based on available data,					
Product/ingredient name	Result	Species	Score	Exposure	Observation	
Stearic acid	Skin - Mild irritant	Human	-	72 hours 75 mg l	-	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-	

Skill	•	Froinged of repeated contact may dry skin and cause initiation.
Eyes	:	No significant irritation expected other than possible mechanical irritation.

## Section 11. Toxicological information

Product/ingredient name			
	Route of exposure	Species	Result
stearic acid Stearic acid	skin skin	Mammal - species unspecified Mammal - species unspecified	Not sensitizing Not sensitizing
Conclusion/Summary Skin <u>Mutagenicity</u> Not available.	: Based on availal	ble data, the classification criteria	are not met.
Conclusion/Summary <u>Carcinogenicity</u> Not available.	: Based on availa	ble data, the classification criteria	are not met.
Conclusion/Summary <u>Reproductive toxicity</u> Not available.	: Based on availa	ble data, the classification criteria	are not met.
Conclusion/Summary <u>Teratogenicity</u> Not available.	: Based on availa	ble data, the classification criteria	are not met.
Conclusion/Summary Specific target organ toxicity Not available.		ble data, the classification criteria )	are not met.
Specific target organ toxicity	<u>y (repeated exposi</u>	<u>ure)</u>	
Not available. <u>Aspiration hazard</u> Not available.			
Not available. Aspiration hazard	: Not available.		
Not available. <u>Aspiration hazard</u> Not available. Information on the likely routes of exposure			
Not available. <u>Aspiration hazard</u> Not available. Information on the likely			ory or recommended exposure limits
Not available. <u>Aspiration hazard</u> Not available. Information on the likely routes of exposure <u>Potential acute health effects</u>	: Exposure to airb may cause irritat : Exposure to airb	tion of the eyes. oorne concentrations above statuto tion of the nose, throat and lungs.	ory or recommended exposure limits ory or recommended exposure limits Vapor may be irritating to eyes and
Not available. <u>Aspiration hazard</u> Not available. Information on the likely routes of exposure <u>Potential acute health effects</u> Eye contact	<ul> <li>Exposure to airb may cause irritat</li> <li>Exposure to airb may cause irritat respiratory syste</li> </ul>	tion of the eyes. oorne concentrations above statuto tion of the nose, throat and lungs.	bry or recommended exposure limits Vapor may be irritating to eyes and
Not available. <u>Aspiration hazard</u> Not available. Information on the likely routes of exposure <u>Potential acute health effects</u> Eye contact Inhalation	<ul> <li>Exposure to airb may cause irritat</li> <li>Exposure to airb may cause irritat respiratory syste</li> <li>Contact with hot</li> </ul>	tion of the eyes. orne concentrations above statute tion of the nose, throat and lungs. em.	bry or recommended exposure limits Vapor may be irritating to eyes and
Not available. Aspiration hazard Not available. Information on the likely routes of exposure Potential acute health effects Eye contact Inhalation Skin contact Ingestion	<ul> <li>Exposure to airb may cause irritat</li> <li>Exposure to airb may cause irritat respiratory syste</li> <li>Contact with hot</li> <li>No known signifi</li> </ul>	tion of the eyes. porne concentrations above statute tion of the nose, throat and lungs. em. material causes thermal skin burn icant effects or critical hazards.	bry or recommended exposure limits Vapor may be irritating to eyes and
Not available. Aspiration hazard Not available. Information on the likely routes of exposure Potential acute health effects Eye contact Inhalation Skin contact Ingestion	<ul> <li>Exposure to airb may cause irritat</li> <li>Exposure to airb may cause irritat respiratory syste</li> <li>Contact with hot</li> <li>No known signifi</li> </ul>	tion of the eyes. oorne concentrations above statuto tion of the nose, throat and lungs. em. material causes thermal skin burn	bry or recommended exposure limits Vapor may be irritating to eyes and
Not available. Aspiration hazard Not available. Information on the likely routes of exposure Potential acute health effects Eye contact Inhalation Skin contact Ingestion Symptoms related to the physical Symptoms related to the physical Symptometry of the second s	<ul> <li>Exposure to airb may cause irritat</li> <li>Exposure to airb may cause irritat respiratory syste</li> <li>Contact with hot</li> <li>No known signifit</li> <li>Sical, chemical and irritation redness</li> <li>Adverse sympto irritation redness</li> <li>Adverse sympto respiratory tract</li> </ul>	tion of the eyes. porne concentrations above statute tion of the nose, throat and lungs. em. material causes thermal skin burn icant effects or critical hazards. d toxicological characteristics ms may include the following: ms may include the following:	bry or recommended exposure limits Vapor may be irritating to eyes and
Not available. Aspiration hazard Not available. Information on the likely routes of exposure Potential acute health effects Eye contact Inhalation Skin contact Ingestion Symptoms related to the phys Eye contact	<ul> <li>Exposure to airb may cause irritat</li> <li>Exposure to airb may cause irritat respiratory syste</li> <li>Contact with hot</li> <li>No known signifi</li> <li>Sical, chemical and</li> <li>Adverse sympto irritation redness</li> <li>Adverse sympto</li> </ul>	tion of the eyes. Horne concentrations above statute tion of the nose, throat and lungs. Em. material causes thermal skin burn icant effects or critical hazards. A toxicological characteristics ms may include the following: ms may include the following: irritation	bry or recommended exposure limits Vapor may be irritating to eyes and

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

Section 11. Toxicological information		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Long term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health eff	ects	
Not available.		
Conclusion/Summary	: Based on available data, the classification criteria are not met.	
General	: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.	
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

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
stearic acid	4600.0		N/A	N/A	N/A
Stearic acid	4600		N/A	N/A	N/A

## Section 12. Ecological information

#### **Toxicity**

Not available.

Conclusion/Summary

: Based on available data, the classification criteria are not met. Ozone depleting substances - Not applicable.

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Stearic acid	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
stearic acid	8.23	-	high
Stearic acid	8.23		high

#### Mobility in soil

Soil/water partition : coefficient (Koc)

: Not available.

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 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					
	DOT Classification	TDG Classification	Mexico Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

## **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 : Not available. to IMO instruments

	Section 15. Regulatory information
U.S. Federal regulations	: TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
<u>SARA 302/304</u>	
Composition/information c	n ingredients
No products were found.	

## Section 15. Regulatory information

SARA 304 RQ

: Not applicable.

SARA 311/312 Classification

: COMBUSTIBLE DUSTS

Composition/information on ingredients

Name	%	Classification
Stearic acid	100	COMBUSTIBLE DUSTS

#### State regulations

Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: None of the components are listed.
Pennsylvania	: None of the components are listed.
California Dren CE	

#### California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

#### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### **Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Eurasian Economic Union	: Russian Federation inventory: All components are listed or exempted.
Japan	: Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Thailand	: All components are listed or exempted.
Turkey	: All components are listed or exempted.
United States	: All components are active or exempted.
Viet Nam	: All components are listed or exempted.

## Section 16. Other information

Procedure used to derive the classification			
	Classification	Justification	
COMBUSTIBLE DUSTS		On basis of test data	
History			
Date of printing	: 3/27/2023		
Date of issue	: 27 March 2023		
Date of revision	: 27 March 2023		
Version	: 0.01		
Key to abbreviations	IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition MARPOL = International Convention for the Preve as modified by the Protocol of 1978. ("Marpol" = r N/A = Not available SGG = Segregation Group UN = United Nations	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate 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) N/A = Not available SGG = Segregation Group	
References	Not available.		

**V**Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.