# SAFETY DATA SHEET



ARBOSIL® 1070 Black

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

1.1 Product identifier

Product name : ARBOSIL® 1070 Black
Product description : Fire resistant silicone sealant.

Other means of identification

: Not available.

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

Identified uses		
Fire resistant silicone sealant.		
Uses advised against	Reason	
For professional users only.	-	

### 1.3 Details of the supplier of the safety data sheet

Adshead Ratcliffe & Co. Ltd.

Derby Road, Belper

Derbyshire. DE56 1WJ

+44 (0)1773 826661

e-mail address of person responsible for this SDS

: SDSQueries@carlisleccm.com

### 1.4 Emergency telephone number

# **National advisory body/Poison Centre**

Telephone number : National Poisons Information Service (NPIS)

Tel: 0344 892 0111 (for healthcare professionals only)

Website: http://www.npis.org/

Members of Public in England, Scotland and Wales can contact NHS 111/NHS 24

by dialling 111. In Northern Ireland contact your local GP.

**Supplier** 

**Telephone number** : +44 (0)1773 826661

(Office hours: 8.30 - 17.00)

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360D

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

# **SECTION 2: Hazards identification**

**Hazard pictograms** 







Signal word : Danger

**Hazard statements** : H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage. H360D - May damage the unborn child.

**Precautionary statements** 

**Prevention**: P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing and eye or face protection.

P261 - Avoid breathing vapour.

**Response**: P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.

P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

Storage : Not applicable.

Disposal : Not applicable.

Supplemental label : Not applicable.

elements

articles

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

: Restricted to professional users.

**Special packaging requirements** 

Containers to be fitted with child-resistant

with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

Other hazards which do not result in classification

: Curing process may release a small amount of methanol which is irritating to

mucous membranes and has skin drying and narcotic effects.

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

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Type
Limestone	EC: 215-279-6 CAS: 1317-65-3	≥10 - ≤25	Not classified.	[2]
silicon dioxide	REACH #: 01-2119379499-16 EC: 231-545-4 CAS: 7631-86-9	≤5	Not classified.	[2]
N,N'-(ethoxymethylsilylene)bis[N-methylbenzamide]	REACH #: 01-2120770139-50 EC: 240-354-5	≤5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317	[1]
bis(ethyl acetoacetato-O1',O3)bis	REACH #:	≤4.9	Flam. Liq. 3, H226	[1]

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

(2-methylpropan-1-olato)titanium	01-2119968551-31 EC: 281-161-6 CAS: 83877-91-2		Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	
dioctyltin dilaurate	UK (GB) REACH #: UK- 01-4760535389-6 EC: 222-883-3 CAS: 3648-18-8 Index: 050-031-00-9	<1	Repr. 1B, H360D STOT RE 1, H372 (immune system)	[1] [2]
carbon black, non respirable	EC: 215-609-9 CAS: 1333-86-4	≤1	Not classified.	[2]
methanol	EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	<0.1	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370	[1] [2]
toluene	EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤0.1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 (central nervous system (CNS)) (inhalation) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
			See Section 16 for the full text of the H statements declared above.	

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

### **Type**

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

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

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

Eye contact

: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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** 

: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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# **SECTION 4: First aid measures**

### Ingestion

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Chemical burns must be treated promptly by a physician. 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.

#### **Protection of first-aiders**

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

# **Over-exposure signs/symptoms**

Eye contact : Adverse symptoms may include the following:

> pain watering redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

> pain or irritation redness

blistering may occur

Ingestion : Adverse symptoms may include the following:

stomach pains

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

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Curing process may release a small amount of methanol which is irritating to

mucous membranes and has skin drying and narcotic effects.

**Specific treatments** : Antidote for methanol poisoning is ethanol.

# SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

: None known.

media

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

**Hazards from the** substance or mixture : No specific fire or explosion hazard.

**Hazardous combustion** products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide metal oxide/oxides

#### 5.3 Advice for firefighters

**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.

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# SECTION 5: Firefighting measures

**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

# SECTION 6: Accidental release measures

# 6.1 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 spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised 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".

6.2 Environmental precautions

: Avoid dispersal of spilt 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).

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

**Small spill** 

: Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, 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.

### 6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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.

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

# SECTION 7: Handling and storage

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. Store locked up. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# 7.3 Specific end use(s)

Recommendations Not available. **Industrial sector specific** : Not available.

solutions

# SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
Limestone	EH40/2005 WELs (United Kingdom (UK), 1/2020). [calcium
	carbonate inhalable dust/respirable dust]
	TWA: 4 mg/m³ 8 hours. Form: respirable dust
	TWA: 10 mg/m³ 8 hours. Form: inhalable dust
	EH40/2005 WELs (United Kingdom (UK), 1/2020). [limestone
	total inhalable/respirable]
	TWA: 4 mg/m³ 8 hours. Form: respirable
	TWA: 10 mg/m³ 8 hours. Form: total inhalable
silicon dioxide	EH40/2005 WELs (United Kingdom (UK), 1/2020). [silica,
	amorphous inhalable dust/respirable dust]
	TWA: 2.4 mg/m <sup>3</sup> 8 hours. Form: respirable dust
	TWA: 6 mg/m³ 8 hours. Form: inhalable dust
dioctyltin dilaurate	EH40/2005 WELs (United Kingdom (UK), 1/2020). [tin
	compounds, organic, except cyhexatin (ISO) as Sn] Absorbed
	through skin.
	STEL: 0.2 mg/m³, (as Sn) 15 minutes.
	TWA: 0.1 mg/m³, (as Sn) 8 hours.
carbon black, non respirable	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 7 mg/m³ 15 minutes.
	TWA: 3.5 mg/m <sup>3</sup> 8 hours.
methanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 333 mg/m³ 15 minutes.
	STEL: 250 ppm 15 minutes.
	TWA: 266 mg/m³ 8 hours.
	TWA: 200 ppm 8 hours.
toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 384 mg/m³ 15 minutes.
	TWA: 191 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.

#### **Biological exposure indices**

No exposure indices known.

procedures

**Recommended monitoring**: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

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

Product/ingredient name	Type	Exposure	Value	Population	Effects
N,N'-(ethoxymethylsilylene)bis[N-	DNEL	Long term	1.76 mg/m <sup>3</sup>	Workers	Systemic
methylbenzamide]	DATE	Inhalation	0.5 "	<b>NA</b> 7 1	
	DNEL	Long term Dermal	0.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	0.43 mg/m <sup>3</sup>	General	Systemic
	DNE	Inhalation	0.05/	population	0 t : -
	DNEL	Long term Dermal	0.25 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.25 mg/	General	Systemic
			kg bw/day	population	
bis(ethyl acetoacetato-O1',O3)bis (2-methylpropan-1-olato)titanium	DNEL	Long term Oral	22 mg/kg bw/day	General population	Systemic
(2-metry)propari-1-olato/titamam	DNEL	Long term Dermal	220 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Inhalation	254 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term	303 mg/m <sup>3</sup>	General	Systemic
		Inhalation	· ·	population	-
dioctyltin dilaurate	DNEL	Long term Oral	0.0005 mg/	General	Systemic
	DNEL	Long term	kg bw/day 0.0009 mg/	population General	Systemic
		Inhalation	m³	population	
	DNEL	Long term	0.0035 mg/	Workers	Systemic
carbon black, non respirable	DNEL	Inhalation Long term	m³ 0.06 mg/m³	General	Systemic
carson sident, non respiration	21122	Inhalation	0.00g/	population	
	DNEL	Long term	1 mg/m³	Workers	Systemic
methanol	DNEL	Inhalation Short term Oral	4 mg/kg	General	Systemic
mediane.	D1122	onert term oral	bw/day	population	
	DNEL	Long term Oral	4 mg/kg	General	Systemic
	DNEL	Short term Dermal	bw/day 4 mg/kg	population General	Systemic
	DIVLE	Onort term Berman	bw/day	population	Cysternio
	DNEL	Long term Dermal	4 mg/kg	General	Systemic
	DNEL	Short term Dermal	bw/day 20 mg/kg	population Workers	Systemic
	DIVEE	Onort torm Bormar	bw/day	VVOINGIO	- Cyclonnic
	DNEL	Long term Dermal	20 mg/kg	Workers	Systemic
	DNEL	Short term	bw/day 26 mg/m³	General	Local
	21122	Inhalation		population	20001
	DNEL	Long term	26 mg/m <sup>3</sup>	General	Local
	DNEL	Inhalation Short term	26 mg/m³	population General	Systemic
		Inhalation	_	population	
	DNEL	Long term	26 mg/m <sup>3</sup>	General	Systemic
	DNEL	Inhalation Short term	130 mg/m³	population Workers	Local
		Inhalation	_		
	DNEL	Long term	130 mg/m <sup>3</sup>	Workers	Local
	DNEL	Inhalation Short term	130 mg/m³	Workers	Systemic
		Inhalation			-
	DNEL	Long term	130 mg/m <sup>3</sup>	Workers	Systemic
toluene	DNEL	Inhalation Long term Oral	8.13 mg/	General	Systemic
13.43.13			kg bw/day	population	
	DNEL	Long term	56.5 mg/m <sup>3</sup>	General	Local
	DNEL	Inhalation Long term	56.5 mg/m³	population General	Systemic
	DIVLL	Inhalation	Jo.o mg/m	population	Systemio

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

DNEL	Long term Inhalation	192 mg/m³	Workers	Local
DAIE		400 / 3	\A./ I	
DNEL	Long term	192 mg/m³	Workers	Systemic
	Inhalation			
DNEL	Long term Dermal	226 mg/kg	General	Systemic
		bw/day	population	
DNEL	Short term	226 mg/m <sup>3</sup>	General	Local
	Inhalation		population	
DNEL	Short term	226 mg/m <sup>3</sup>	General	Systemic
	Inhalation	9	population	,
DNEL	Long term Dermal	384 mg/kg	Workers	Systemic
		bw/day		•
DNEL	Short term	384 mg/m <sup>3</sup>	Workers	Local
	Inhalation	J		
DNEL	Short term	384 mg/m <sup>3</sup>	Workers	Systemic
	Inhalation	g/		- ,
	IIIIIaiaiioii			

# **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
N,N'-(ethoxymethylsilylene)bis[N-methylbenzamide]	Fresh water	0.1 mg/l	-
	Fresh water	1 mg/l	-
	Marine water	0.01 mg/l	-
	Marine water	0.1 mg/l	-
	Sewage Treatment Plant	10 mg/l	-
	Fresh water sediment	15.313 mg/kg dwt	-
	Marine water sediment	1.531 mg/kg dwt	-
	Soil	1.78 mg/kg dwt	-
bis(ethyl acetoacetato-O1',O3)bis (2-methylpropan-1-olato)titanium	Fresh water	0.1 mg/l	-
	Fresh water	1 mg/l	_
	Marine water	0.01 mg/l	-
	Sewage Treatment Plant	28 mg/l	-
	Fresh water sediment	0.082 mg/kg dwt	-
	Marine water sediment	0.0082 mg/kg dwt	-
	Soil	0.019 mg/kg dwt	-
toluene	Fresh water	0.68 mg/l	-
	Fresh water	0.68 mg/l	-
	Marine water	0.68 mg/l	-
	Sewage Treatment Plant	13.61 mg/l	-
	Fresh water sediment	16.39 mg/kg	-
	Marine water sediment	16.39 mg/kg	-
	Soil	2.89 mg/kg	-

# 8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour 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.

# **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. Contaminated work clothing should not be allowed out of the workplace. 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: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

### **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.

#### **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**

: Use appropriate respiratory protection if there is a risk of exceeding any exposure limits. 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.

# **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.

# **SECTION 9: Physical and chemical properties**

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

# 9.1 Information on basic physical and chemical properties

#### **Appearance**

Physical state: Solid. [paste]Colour: Black.Odour: Slight

Odour threshold : Not available.

Melting point/freezing point : Not available.

Initial boiling point and : Not available.

boiling range

Flammability (solid, gas)

: Not available.

Upper/lower flammability or explosive limits

: Not applicable.

Flash point : Not applicable.

Auto-ignition temperature : 450°C (842°F)

Decomposition temperature : Not available.

pH : Not applicable.

Viscosity : Not applicable.

Solubility in water : Insoluble Miscible with water : No.

Partition coefficient: n-octanol/ : Not applicable.

water

**Vapour pressure** : Not available.

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# **SECTION 9: Physical and chemical properties**

Relative density : 1.15

Vapour density : Not applicable.

Explosive properties : Not available.

Oxidising properties : Not available.

**Particle characteristics** 

Median particle size : Not available.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

# **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
N,N'-(ethoxymethylsilylene) bis[N-methylbenzamide]	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
bis(ethyl acetoacetato-O1', O3)bis(2-methylpropan- 1-olato)titanium	LD50 Oral	Rat	>2000 mg/kg	-
dioctyltin dilaurate	LD50 Oral	Rat	6450 mg/kg	-
carbon black, non respirable	LD50 Oral	Rat	>15400 mg/kg	-
methanol	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-

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

### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
ARBOSIL® 1070 Black	12318.3	N/A	N/A	N/A	N/A
N,N'-(ethoxymethylsilylene)bis[N-methylbenzamide]	500	N/A	N/A	N/A	N/A
dioctyltin dilaurate	6450	N/A	N/A	N/A	N/A
methanol	100	300	64000	3	N/A
toluene	N/A	N/A	N/A	49	N/A

### **Irritation/Corrosion**

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# **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Score	Exposure	Observation
silicon dioxide	Eyes - Mild irritant	Rabbit	-	24 hours 25	-
methanol	Eyes - Moderate irritant	Rabbit	-	mg 24 hours 100	-
	Eyes - Moderate irritant	Rabbit	-	mg 40 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
	Skin - Mild irritant	Pig	-	mg 24 hours 250 uL	-
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
	Skin - Moderate irritant	Rabbit	-	mg 500 mg	-

**Conclusion/Summary** 

Skin : Based on available data, the classification criteria are not met.

Eyes : Eye Dam. 1

**Respiratory**: Based on available data, the classification criteria are not met.

**Sensitisation** 

**Conclusion/Summary** 

Skin : Skin Sens. 1

**Respiratory**: Based on available data, the classification criteria are not met.

**Mutagenicity** 

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

**Carcinogenicity** 

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

**Reproductive toxicity** 

**Conclusion/Summary** : Repr. 1B May damage the unborn child.

**Teratogenicity** 

Conclusion/Summary : Repr. 1B May damage the unborn child.

# **Specific target organ toxicity (single exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1-olato) titanium	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
methanol	Category 1	-	-
toluene	Category 3	-	Narcotic effects

# Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
	Category 1 Category 2	inhalation	immune system central nervous system (CNS)

### **Aspiration hazard**

Product/ingredient name	Result
toluene	ASPIRATION HAZARD - Category 1

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# **SECTION 11: Toxicological information**

Information on likely routes : Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

of exposure

Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: May cause an allergic skin reaction.

**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 watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Ingestion**: Adverse symptoms may include the following:

stomach pains

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

**Potential immediate** 

effects

Causes serious eye damage. May cause skin sensitisation.

skin rash or hives Irritating to skin.

Potential delayed effects

: Not available.

**Long term exposure** 

**Potential immediate** 

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

**Conclusion/Summary** 

: Not available.

General

: Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Curing process may release a small amount of methanol which is irritating to

mucous membranes and has skin drying and narcotic effects.

Carcinogenicity : No known significant effects or critical hazards.Mutagenicity : No known significant effects or critical hazards.

**Reproductive toxicity**: May damage the unborn child.

Other information : Not available.

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# **SECTION 12: Ecological information**

# **12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
silicon dioxide	Acute EC50 2.2 g/L Fresh water	Daphnia - Water flea - <i>Daphnia</i> magna - Neonate	48 hours
	Chronic NOEC 12.5 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia magna</i> - Neonate	21 days
N,N'-(ethoxymethylsilylene) bis[N-methylbenzamide]	Acute EC50 >100 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 >100 mg/l Fresh water	Fish - Danio rerio	96 hours
carbon black, non respirable	Acute EC50 37.563 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia magna</i> - Neonate	48 hours
methanol	Acute EC50 16.912 mg/l Marine water	Algae - Green algae - <i>Ulva</i> pertusa	96 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Zebra danio - <i>Danio rerio</i> - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Green algae - <i>Ulva</i> pertusa	96 hours
toluene	Acute EC50 >433 ppm Marine water	Algae - Diatom - Skeletonema costatum	96 hours
	Acute EC50 11600 μg/l Fresh water	Crustaceans - Scud - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 μg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i> magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 μg/l Fresh water	Fish - Coho salmon,silver salmon - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i> magna	21 days

**Conclusion/Summary** 

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

# 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
N,N'-(ethoxymethylsilylene) bis[N-methylbenzamide]	OECD 301 F	100 % - Readily - 28 days	-	-

# **Conclusion/Summary**: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
N,N'-(ethoxymethylsilylene) bis[N-methylbenzamide]	-	-	Readily
toluene	-	-	Readily

# 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
dioctyltin dilaurate methanol toluene	- -0.77 2.73	<100 <10 90	Low Low

# 12.4 Mobility in soil

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# **SECTION 12: Ecological information**

Soil/water partition coefficient (Koc)

: Not available.

**Mobility** : insoluble in water.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects**: No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

: The generation of waste should be avoided or minimised 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.

#### **Hazardous waste**

Yes.

#### Waste catalogue

Waste code	Waste designation
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances

#### **Packaging**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

#### **Special precautions**

: 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	1	1		
	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

# **SECTION 14: Transport information**

user

14.6 Special precautions for : 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.

14.7 Transport in bulk according to IMO instruments

: Not available.

# SECTION 15: Regulatory information

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture **UK (GB)/REACH**

# **Annex XIV - List of substances subject to authorisation**

**Annex XIV** 

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

# Ozone depleting substances

Not listed.

# **Prior Informed Consent (PIC)**

Part	Ingredient name	Status
Part 1	dioctyltin compounds	Listed

#### **Persistent Organic Pollutants**

Not listed.

# Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
ARBOSIL® 1070 Black dioctyltin dilaurate	≥90 <1	30 20 30
methanol toluene	<0.1 ≤0.1	69 48

Labelling : Restricted to professional users.

### **Seveso Directive**

This product is not controlled under the Seveso Directive.

#### **EU regulations**

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

Air

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

Water

# **International regulations**

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

Not listed.

# **Montreal Protocol**

Not listed.

#### **Stockholm Convention on Persistent Organic Pollutants**

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# SECTION 15: Regulatory information

Not listed.

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

Not listed.

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

Not listed.

# **Inventory list**

**Australia** : Not determined. Canada : Not determined. China : Not determined.

**Eurasian Economic Union**: Russian Federation inventory: Not determined.

: Japan inventory (CSCL): Not determined. **Japan** 

Japan inventory (ISHL): Not determined.

: Not determined. **New Zealand Philippines** Not determined. Republic of Korea : Not determined. **Taiwan** : Not determined. **Thailand** Not determined. **Turkey** : Not determined. **United States** : Not determined. **Viet Nam** Not determined.

15.2 Chemical safety This product contains substances for which Chemical Safety Assessments are still assessment

required.

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and** 

acronyms

: ATE = Acute Toxicity Estimate

GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and

Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019

No. 720 and amendments

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = GB CLP-specific Hazard statement

N/A = Not available

PBT = Persistent. Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification

Classification	Justification
Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360D	Calculation method Calculation method Calculation method

# Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

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# **SECTION 16: Other information**

H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360D	May damage the unborn child.
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

# **Full text of classifications**

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 1	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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