



# ARKOS BRAKE FLUID DOT 4

## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### 1.1 Product Identifier

Product name	ARKOS BRAKEFLUID DOT 4
Product description	BRAKE FLUID.
Product type	Liquid

#### 1.2 Identified uses

Distribution of substance Formulation & (re)packing of substances and mixtures Manufacture of substance	AUTOMOTIVE
Functional Fluids	Industrial Industrial AUTOMOTIVE

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

Supplier/Manufacturer	APAR Industries Limited 18 T.T.C., M.I.D.C. Industrial Area , Thane Belapur Road , Rabale, Navi Mumbai – 400701. India. +91 22 61110444 (Office hours 9.30am to 17.00pm)
e- mail address of person responsible for this SDS :	www.apar.com hse@apar.com

#### 1.4 Emergency telephone number :


+91 9833811132

### SECTION 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Product definition	Mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]	
Asp. Tox. 1, H304	
The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 16 for the full text of the H statements declared above.	

#### 2.2 Label elements

Hazard pictograms	
Signal word	<b>Danger</b>
Hazard statements	H 304: May be fatal if swallowed and enters airways.
Precautionary statements	Not applicable
Prevention	P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.
Response	P405 - Store locked up.
Storage	P501 - Dispose of contents/container in accordance with all local, regional, national and international regulations.
Disposal	Not applicable
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable

#### 2.3 Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	Not applicable
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### SECTION 3: Composition/information on ingredients

3.2 Mixtures					
Product definition					
Polyethylene glycol Proprietary performance additives					
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	REACH #:	≥25 - ≤50	Repr. 2, H361fd	-	[1]
	01-2119462824-33				
	EC: 250-418-4 CAS: 30989-05-0				
Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol 2,2'-oxybisethanol	REACH #:	≥10 - ≤25	Eye Dam. 1, H318	Eye Dam. 1, H318: C	[1]
	01-2119475115-41			≥ 30%	
	01-2119531322-53			Eye Irrit. 2, H319:	
	EC: 907-996-4 CAS: - REACH #:	≤10	Acute Tox. 4, H302	ATE [Oral] = 500 mg/ kg	[1]
	01-2119457857-21				
	EC: 203-872-2 CAS: 111-46-6				
	Index: 603-140-00-6				
Di-isopropanolamine	REACH #:	≤3	Eye Irrit. 2, H319	-	[1]
	01-2119475444-34				
	EC: 203-820-9 CAS: 110-97-4				
	Index: 603-083-00-7				

Notes : Composition/ Information on ingredients: Synthetic base stock (polyglycol) Rust inhibitor

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 or vPvBs 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
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern



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### SECTION 4 FIRST AID MEASURES

#### 4.1 Description of first aid measures

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If casualty is unconscious and: If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or are severe. Maintain an open airway.

Inhalation

Wash with soap and water. Remove contaminated clothing and shoes. Handle with care and dispose of in a safe manner. Seek medical attention if skin irritation, swelling or redness develops and persists.

Skin contact

Accidental high pressure injection through the skin requires immediate medical attention. Do not wait for symptoms to develop.

Ingestion

Always assume that aspiration has occurred. Do not induce vomiting. Can enter lungs and cause damage. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Seek professional medical attention or send the casualty to a hospital. Do not wait for symptoms to develop.

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.

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.

Before attempting to rescue casualties, isolate area from all potential sources of ignition including disconnecting electrical supply. Ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry into confined spaces.

Protection of first-aiders

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

##### Potential acute health effects

Eye contact

Eye contact may cause redness and transient pain.

Inhalation

Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.

Skin contact

No known significant effects or critical hazards.

Ingestion

May be fatal if swallowed and enters airways.

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

Notes to physician Due to low viscosity there is a risk of aspiration if the product enters the lungs. Treat symptomatically. Specific treatments

Always assume that aspiration has occurred.

### SECTION 5 FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media

Dry chemicals. Foam. Carbon dioxide (CO<sub>2</sub>). Water spray or foam.

Unsuitable extinguishing media Do not use direct water jets on the burning product; they could cause splattering and spread the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

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

Hazards from the substance In a fire or if heated, a pressure increase will occur and the container may burst. or mixture This substance will float and can be reignited on surface water.

Hazardous thermal Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, decomposition products gases, including carbon monoxide, H<sub>2</sub>S, SO<sub>x</sub> (sulfur oxides) or sulfuric acid and unidentified organic and inorganic compounds.

#### 5.3 Advice for firefighters

Special precautions for firefighters

Special protective equipment 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.

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.



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### SECTION 6 ACCIDENTAL RELEASE MEASURES

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

For non-emergency personnel

Avoid breathing vapour or mist. Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind/keep distance from source. In case of large spillages, alert occupants in downwind areas.

Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations.

Note : recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions.

For emergency responders

For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken.

Small spillages: normal antistatic working clothes are usually adequate.

Large spillages: full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons.

Note : gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and /or face shield, if splashes or contact with eyes is possible or anticipated.

Respiratory protection : A half or full-face respirator with filter(s) for organic vapours (and when applicable for H2S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.

#### 6.2 Environmental precautions

Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations.

In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents.

If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.

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

Small spill

Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.

Large spill

Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe 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

#### 7.1 Advice on general occupational hygiene Storage

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

Ensure that proper housekeeping measures are in place. Contaminated materials should not be allowed to accumulate in the workplaces and should never be kept inside the pockets. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash hands thoroughly after handling. Change contaminated clothes at the end of working shift. See also Section 8 for additional information on hygiene measures.

properly equipped and qualified personnel as defined by national, local or company regulations.

### SECTION 7 HANDLING AND STORAGE

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

Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by



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Store separately from oxidizing agents.

Recommended materials for containers or container linings use mild steel, stainless steel. Not suitable: Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Compatibility should be checked with the manufacturer.

Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable/combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Store locked up. Protect from sunlight.

Not available

Not available

### 7.3 Specific end use(s)

**Recommendations Industrial sector  
specific solutions**

## SECTION 8: Exposure Controls/personal protection

### **8.1. Control**

#### **parameters**

#### **Occupational**

#### **exposure limits 2,2'-**

#### **OXYBISETHANOL**

Long-term exposure limit (8-hour TWA): WEL 23 ppm 101 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

#### **2-(2-METHOXYETHOXY)ETHANOL**

8 hrs TWA 10ppm; 15 mins 50.1 mg/m<sup>3</sup> 2-

#### **(2butoxyethoxy)ethanol**

Long-term exposure limit (8-hour TWA): WEL 10 ppm 67.5

mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 15 ppm

101.2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

#### **2-[2-(2-BUTOXYETHOXY)ETHOXY]ETHANOL (CAS: 143-22-6)**

DNEL Workers - Dermal; Long term systemic effects: 50 mg/kg/day Workers - Inhalation; Long term systemic effects: 195 mg/m<sup>3</sup> Consumer - Dermal; Long term systemic effects: 25 mg/kg/day Consumer - Inhalation; Long term systemic effects: 117 mg/m<sup>3</sup> Consumer - Oral; Long term systemic effects: 2.5 mg/kg/day

#### **PNEC**

- Water, Fresh water; 1.5 mg/l

- Water, Marine water; 0.25 mg/l

- Water, Intermittent release; 50 mg/l

- STP; 200 mg/l

- Sediment (Freshwater); 5.77 mg/kg/sediment dw

- Sediment (Marinewater); 0.13 mg/kg/sediment dw

- Soil; 0.45 mg/kg

Oral - ; 111 mg/kg

#### **2,2'-OXYBISETHANOL (CAS: 111-46-6)**



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**DNEL** Workers - Dermal; Long term systemic effects: 106 mg/kg/day Workers - Inhalation; Long term systemic effects: 60 mg/m<sup>3</sup> Consumer - Dermal; Long term systemic effects: 53 mg/kg/day Consumer - Inhalation; Long term systemic effects: 12 mg/m<sup>3</sup>

**PNEC**

- Water, Fresh water; 10 mg/l
- Water, Marine water; 1 mg/l
- Water, Intermittent release; 10 mg/l
- STP; 199.5 mg/l
- Sediment (Freshwater); 20.9 mg/kg/sediment dw
- Soil; 1.53 mg/kg

#### **2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)**

**DNEL** Workers - Inhalation; Short term local effects: 101.2 mg/m<sup>3</sup> Workers - Dermal; Long term systemic effects: 20 mg/kg/day Workers - Inhalation; Long term systemic effects: 67 mg/m<sup>3</sup> Consumer - Inhalation; Short term local effects: 50.6 mg/m<sup>3</sup> Consumer - Dermal; Long term systemic effects: 10 mg/kg/day Consumer - Inhalation; Long term systemic effects: 34 mg/m<sup>3</sup> Consumer - Oral; Long term systemic effects: 1.25 mg/kg/day

**PNEC**

- Water, Fresh water; 1.0 mg/l
- Water, Marine water; 0.1 mg/l
- Water, Intermittent release; 3.9 mg/l
  - STP; 200 mg/l
- Sediment (Freshwater); 4.0 mg/kg/sediment dw
- Sediment (Marinewater); 0.4 mg/kg/sediment dw - Soil; 0.4 mg/kg

#### **2-(2-METHOXYETHOXY)ETHANOL (CAS: 111-77-3)**

**DNEL** Workers - Dermal; Long term systemic effects: 0.53 mg/kg/day Workers - Inhalation; Long term systemic effects: 50.1 mg/m<sup>3</sup> Consumer - Dermal; Long term systemic effects: 0.27 mg/kg/day Consumer - Inhalation; Long term systemic effects: 25 mg/m<sup>3</sup>

**PNEC**

- Water, Fresh water; 12 mg/l
- Water, Marine water; 1.2 mg/l
- Water, Intermittent release; 12 mg/l
  - STP; 10000 mg/l
- Sediment (Freshwater); 44.4 mg/kg/sediment dw
- Sediment (Marinewater); 0.44 mg/kg/sediment dw Soil; 2.44 mg/kg



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### 8.2. Exposure controls

Appropriate engineering controls	Not necessary under normal conditions. If fluid is being heated or <b>atomised</b> , local exhaust ventilation with filter/scrubber is recommended.
Eye/face protection	Personal protective equipment for eye and face protection should comply with European Standard EN166. Provide eyewash station.
Hand protection	<u>To</u> protect hands from chemicals, gloves should comply with European Standard EN374. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The selected gloves should have a breakthrough time of at least 8 hours.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
Hygiene measures	Good personal hygiene procedures should be implemented.
Respiratory protection	<u>Not</u> necessary under normal conditions.
Environmental exposure controls	Keep container tightly sealed when not in use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state	Liquid.
Colour	Yellow.
Odour	Characteristic.
Odour threshold	Not available.
pH	7.5 to 9 [Conc. (% w/w): 100%]
Melting point/freezing point	<-70°C (<-94°F)
Initial boiling point and boiling range	>260°C (>500°F)
Flash point	Closed cup: >125°C (>257°F) [Pensky-Martens]
Evaporation rate	<u>Not</u> available.
Flammability (solid, gas)	Not available.
Lower and upper explosion limit	Lower: 1.5%
Vapour pressure	<0.13 kPa (<1 mm Hg) [20°C (68°F)]
Relative vapour density	Not available.
Relative density	Not available.
Density	>1000 kg/m <sup>3</sup> (>1 g/cm <sup>3</sup> ) at 20°C.

#### Solubility(ies)

Media	Result
Water	Miscible in water.

Miscible with water	<input checked="" type="checkbox"/> Yes.
Partition coefficient: n-octanol/water	<input checked="" type="checkbox"/> Not applicable.



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**Viscosity**

Kinematic: 16 mm<sup>2</sup>/s (16 cSt) at 20°C

**Explosive properties**

Not available.

**Oxidising properties**

Not available.

**Particle characteristics**

**Median particle size**

Not applicable.

**9.2 Other information**

No additional information.





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### SECTION 10 STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	Stable under normal conditions
<b>10.3 Possibility of hazardous Reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.
<b>10.4 Conditions to avoid</b>	Keep away from extreme heat and oxidizing agents.
<b>10.5 Incompatible materials</b>	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H <sub>2</sub> S, SO <sub>x</sub> (sulfur oxides) or sulfuric acid and unidentified organic and inorganic compounds.
<b>10.6 Hazardous decomposition products</b>	

### SECTION 11 TOXICOLOGICAL INFORMATION

#### SECTION 11: Toxicological information

##### 11.1. Information on toxicological effects

###### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 5,000.0

Species Rat

Notes (oral LD<sub>50</sub>) Product is of low acute oral toxicity. However, if any significant amount is ingested, there is a risk of renal damage which in extreme cases could lead to kidney failure, coma or death. Other symptoms of overexposure include Central Nervous System effects, abdominal discomfort, metabolic acidosis, headache and nausea.

ATE oral (mg/kg) 5,000.0

###### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 3,000.0

Species Rabbit

Notes (dermal LD<sub>50</sub>) Acute percutaneous toxicity is low however massive contact with damaged skin could result in the absorption of harmful amounts.

ATE dermal (mg/kg) 3,000.0

###### Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) The product is unlikely to present any significant inhalation hazard at ambient temperatures and under normal conditions of use.

###### Skin corrosion/irritation

Human skin model test Based on available data the classification criteria are not met. Repeated contact may de-fat the skin and cause dermatitis.

###### Serious eye damage/irritation

Serious eye damage/irritation Serious eye irritation

###### Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

###### Skin sensitisation

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



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### SECTION 12 ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	Not expected to be harmful to aquatic organisms.
<b>12.2 Persistence and degradability</b>	Not inherently biodegradable.
<b>12.3 Bioaccumulative potential</b>	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.
<b>12.4 Mobility in soil</b>	Not considered mobile.
<b>12.5 Results of PBT &amp; vPvB Assessment</b>	Not applicable.
<b>12.6 Other adverse effects</b>	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

### 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 Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorizations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organization, and/or prescribe composition limits and methods for recovery or disposal.

Hazardous waste Yes

### SECTION 13 DISPOSAL CONSIDERATIONS

#### European waste catalogue (EWC)

Waste code	Waste designation
13 03 07*	mineral-based non-chlorinated insulating and heat transmission oils

#### 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.

### SECTION 14 TRANSPORT INFORMATION

#### International transport regulations

	ADR/ RID	ADN	IMO/IMDG Classification	ICAO/IATA Classification
<b>14.1 UN number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>14.2 UN proper shipping name</b>	-	-	-	-
<b>14.3 Transport hazard class(es)</b>	-	-	-	-
<b>14.4 Packing group</b>	-	-	-	-
<b>14.5 Environmental hazards</b>	No	No	No	No
<b>Additional information</b>	-	-	-	-

**14.6 Special precautions for** Transport within user's premises: always transport in closed containers that are upright and secure. Ensure

**User** that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code** Oils



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### SECTION 15 REGULATORY INFORMATION

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV None of the components are listed. Substances of very high concern

None of the components are listed.

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

Not applicable.

Seveso D

This product is not controlled under the Seveso Directive.

#### International Lists

##### National Inventory

	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 15.2 Chemical Safety Assessment

### SECTION 16 OTHER INFORMATION

#### Revision comments

Not available.

#### Legend to abbreviations

ADR	European agreement concerning the international carriage of dangerous good by road.
RID	Regulations agreement concerning the international carriage of dangerous good by rail. International
IMDG – CODE	maritime dangerous goods code.
ICAO	International Civil Aviation Organization.
IATA	International air transport association.
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].
SCBA	Self-Contained Breathing Apparatus.
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].
LC 50	Median lethal concentration.
LD 50	Median lethal dose.
PBT	Persistent, Bioaccumulative and Toxic.

#### Procedure used to derive the classificat

on according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Asp. Tox. 1, H304	Calculation method

Full text of abbreviated H statements

H304 May be fatal if swallowed and enters airways.

Full text of classifications [CLP/GHS]

Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1.



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Date of issue/Date of revision 1 October 2020. Date of previous issue January 2019

### **Disclaimer**

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.