

# SAFETY DATA SHEET

according to SS586:2014

## AFT-B402 Combustion Catalyst CII



Version 1.1

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Print Date 06.02.2023

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product identifier</b>	: AFT-B402 Combustion Catalyst CII
<b>Other means of Identification</b>	: 74743
<b>Recommended use</b>	: Additive for petroleum fuels
<b>Restrictions on use</b>	: This material should not be used for any other purpose than that recommended without expert advice.
<b>Manufacturer or supplier's details</b>	: Apex Chemicals (S) Pte Ltd 132 Tuas South Avenue 2 West Point Bizhub Singapore 637171
<b>Emergency telephone number</b>	: (65) 6483 5350 Or Call Fire / SCDF 995

### SECTION 2. HAZARDS IDENTIFICATION

**This material is not considered to be hazardous according to regulations.**

#### **GHS-Classification**

Not a hazardous substance or mixture.

#### **GHS Label elements, including precautionary statements**

None.

#### **Other hazards which do not result in classification**

Contact with hot material may cause thermal burns

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT)

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at  $\geq 0.1\%$ .This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB) at  $\geq 0.1\%$ .**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Substance / Mixture : Mixture****Hazardous components**

Component	CAS-No.	Concentration [%]	GHS-Classification
Naphtha (petroleum), hydrotreated heavy	64742-48-9	$\geq 10 - < 20$	Asp. Tox. 1; H304
Long chain alkyl phenol	Trade secret	$\geq 5 - < 10$	Skin Sens. 1; H317 Acute Tox. 5; H303 STOT RE 2; H373
Heavy aromatic solvent	64742-94-5	$\geq 1 - < 5$	STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411
Butanedioic acid, polyisobutenyl derivs.	68610-89-9	$\geq 1 - < 5$	Eye Dam./Eye Irrit. 2; H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

All concentrations are weight percent units for liquids or volume percent units for gaseous products.

Other ingredients are either not hazardous or are below the regulatory disclosure limit..

**SECTION 4. FIRST AID MEASURES****Description of first aid measures**

- General advice** : No hazards which require special first aid measures.
- If inhaled** : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact** : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.  
In case of burns apply cold water until pain subsides then seek medical advice.
- In case of eye contact** : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists: Get medical advice/ attention.

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**If swallowed** : Clean mouth with water and drink afterwards plenty of water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

Symptoms : Dermatitis

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

Treatment : Show this safety data sheet to the doctor in attendance.  
The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.  
If a person vomits when lying on his back, place him in the recovery position.  
Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.  
Keep patient warm and at rest.

**Protection of first-aiders** : For personal protection see section 8.

## SECTION 5. FIREFIGHTING MEASURES

### Extinguishing media

**Suitable extinguishing media** : Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames

**Unsuitable extinguishing media** : High volume water jet

### Special hazards arising from the substance or mixture

Combustibility : Combustible.

Hazardous combustion products : Metal oxides  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

Flammable properties : See Section 9 for information on flammability.

### Special protective actions for fire-fighters

**Protective equipment and precautions for firefighters** : In the event of fire, wear self-contained breathing apparatus.  
Exposure to decomposition products may be a hazard to health.

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**Fire Fighting Instructions** : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures** : Advice for emergency responders  
Ensure adequate ventilation.  
Use personal protective equipment.  
Material can create slippery conditions.  
For personal protection see section 8.  
  
Advice for non-emergency personnel  
Avoid contact with spilled material. Do not touch or walk through spilled material.

**Environmental precautions** : Prevent entry into waterways, sewers, basements or confined areas.  
  
Local authorities should be advised if significant spillages cannot be contained.  
Do not flush into surface water or sanitary sewer system.  
Prevent further leakage or spillage if safe to do so.  
Try to prevent the material from entering drains or water courses.  
If the product contaminates rivers and lakes or drains inform respective authorities.

**Methods and materials for containment and cleaning up** : Prevent further leakage or spillage if safe to do so.  
Large Spills: Dyke far ahead of liquid spill for later recovery and disposal.  
Recover by pumping or with suitable absorbent  
  
Report spills as required to appropriate authorities.  
Seek the advice of a specialist before using dispersants.  
Dispose of according to local regulations.  
In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.  
Material will sink to the sediment layer  
Remove debris in path of spill prior to oiling and remove contaminated debris from shoreline and water surface.

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Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.  
Clean contaminated floors and objects thoroughly while observing environmental regulations.

### Reference to other sections

**Other information** : For personal protection see section 8.  
See section 13

## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid formation of aerosol.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.  
Ensure all equipment is electrically grounded before beginning transfer operations.

Do not spray on a naked flame or any incandescent material.  
Keep away from open flames, hot surfaces and sources of ignition.

Products may load from Apex manufacturing site above the standard loading/unloading range.

Loading/unloading temperature : 0 °C (32 ° F) - 55 °C (131 ° F)

Viscosity @ Loading/unloading temperature : 33 cSt - 338 cSt

Static accumulator : This material is a static accumulator.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Observe label precautions.

Nitrogen blanketing is recommended

No decomposition if stored and applied as directed.

Do not reheat above: 40 °C (104 ° F)

Storage temperature : 0 °C (32 ° F) - 40 °C (104 ° F)

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Incompatible materials and coatings : Butadiene Rubber, butyl-rubber, Compatibility with plastics will vary, Polyethylene, Polystyrene, Polypropylene, Styrene Rubber, Natural Rubber, Ethylene-propylene-diene monomer (EPDM)

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters / Occupational Exposure Limits

Substance name					
Form	Limit / Standard			Note	Source
Naphtha (petroleum), hydrotreated heavy					
	RCP – TWA		1,200 mg/m3		Supplier
	RCP – TWA	171 ppm			Supplier
Heavy aromatic solvent					
vapour	TWA	17 ppm	100 mg/m3		Supplier

Exposure limits for materials that can be formed when handling this product: When mists/aerosols can occur, the following are recommended: 5mg/m<sup>3</sup> - ACGIH TLV, 10 mg/m<sup>3</sup> - ACGIH STEL

Limits/standards shown for guidance only. Follow applicable regulations.

#### Occupational exposure controls

Appropriate engineering controls : No special requirements under ordinary conditions of use and with adequate ventilation.

#### Individual protection measures, such as personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Hand protection : Solvent-resistant gloves  
Before removing gloves clean them with soap and water.  
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.  
When handling hot material, use heat resistant gloves.

Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Long sleeved clothing

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### Advice on general occupational hygiene

Hygiene measures : Wash hands before breaks and immediately after handling the product.  
Remove contaminated clothing and protective equipment before entering eating areas.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

### Information on basic physical and chemical properties

Physical state : liquid  
Form : liquid  
Colour : dark brown  
Odour : solvent-like  
Odour Threshold : not determined

### Important health safety and environmental information

Relative density : not determined  
Bulk density : Not applicable  
Density : 1.006 g/cm<sup>3</sup> at 15 °C (59 ° F)  
Method: ASTM D4052  
Flash point : 74 °C (165 ° F)  
Method: Pensky-Martens Closed Cup (ASTM D93)  
Flammability (solid, gas) : not determined  
Lower flammability limit : not determined  
Upper flammability limit : not determined  
Auto-ignition temperature : Not applicable  
Initial boiling point and boiling range : not determined  
Vapour density (Air = 1.0) : not determined  
Vapour pressure : < 0.1 hPa (< 0.1 mmHg) at 20 °C (68 ° F)  
estimated  
Evaporation rate (N-butyl) : Not applicable

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acetate=1)

pH : Not applicable

Partition coefficient: n-octanol/water : not determined

Water solubility : < 0.0001 g/l  
estimated

Viscosity, kinematic : 1361 mm<sup>2</sup>/s at -20 °C (-4 ° F)  
Method: ASTM D 445  
338 mm<sup>2</sup>/s at 0 °C (32 ° F)  
Method: ASTM D 445  
119 mm<sup>2</sup>/s at 20 °C (68 ° F)  
Method: ASTM D 445  
54 mm<sup>2</sup>/s at 40 °C (104 ° F)  
Method: ASTM D 445  
39 mm<sup>2</sup>/s at 50 °C (122 ° F)  
Method: ASTM D 445

Explosive properties : not determined

Oxidizing properties : See sections 3, 15

Decomposition temperature : not determined

Pour point : not determined

Melting point/freezing point : not determined

### Other information

DMSO extract by IP346 : Less than 3.0 wt% (mineral oil component only)

Coefficient of thermal expansion : 0.00071 1/°C ITM 50-020

## SECTION 10. STABILITY AND REACTIVITY

**Reactivity** : No dangerous reaction known under conditions of normal use.

**Chemical stability** : Stable under recommended storage conditions.

**Possibility of hazardous reactions** : Vapours may form explosive mixture with air.

**Conditions to avoid** : Avoid heat, sparks, open flames and other ignition sources.

**Incompatible materials** : Strong oxidizing agents



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**Hazardous decomposition products** : No decomposition if used as directed.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

##### Product

Acute oral toxicity : No data is available on the product itself.

Acute inhalation toxicity : No data is available on the product itself.

Acute dermal toxicity : No data is available on the product itself.

Skin corrosion/irritation : No data is available on the product itself.

Serious eye damage/eye irritation : No data is available on the product itself.

Respiratory or skin sensitisation : Classification: Does not cause skin sensitisation.  
Result: Product classification based on test data for the components.

Germ cell mutagenicity

Genotoxicity in vitro : No data is available on the product itself.

Genotoxicity in vivo : No data is available on the product itself.

Carcinogenicity : No data is available on the product itself.

Reproductive toxicity : No data is available on the product itself.

STOT - single exposure : Assessment: No data is available on the product itself.

STOT - repeated exposure : Assessment: No data is available on the product itself.

Aspiration toxicity : No data is available on the product itself.

##### Components:

##### **Naphtha (petroleum), hydrotreated heavy:**

Acute oral toxicity : LD50 Rat: > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Test substance: Read-across (Analogy)  
Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : LC50 Rat: > 5 mg/l  
Exposure time: 4 h  
dust/mist  
Method: OECD Test Guideline 403  
Test substance: Read-across (Analogy)

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Remarks: Based on available data, the classification criteria are not met.	
Acute dermal toxicity	: LD50 Rabbit: > 5,000 mg/kg Method: OECD Test Guideline 402 Test substance: Read-across (Analogy) Remarks: Based on available data, the classification criteria are not met.
Skin corrosion/irritation	: Species: Rabbit Result: Repeated exposure may cause skin dryness or cracking. Method: OECD Test Guideline 404 Test substance: Read-across (Analogy) Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	: Species: Rabbit Result: No eye irritation Method: OECD Test Guideline 405 Test substance: Read-across (Analogy) Not classified as an eye irritant, but may cause mild, short-lasting discomfort to the eyes.
Respiratory or skin sensitisation	: Test Method: Maximisation Test Species: Guinea pig Result: Does not cause skin sensitisation. Method: OECD Test Guideline 406 Test substance: Read-across (Analogy) Based on available data, the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity in vitro	: Type: Ames test Result: negative Method: OECD Test Guideline 471 Test substance: Read-across (Analogy) Based on available data, the classification criteria are not met. Type: Chromosome aberration test in vitro Result: negative Method: OECD Test Guideline 473 Test substance: Read-across (Analogy) Based on available data, the classification criteria are not met.
Genotoxicity in vivo	: Type: In vivo micronucleus test Test species: Rat Method: OECD Test Guideline 478 Test substance: Read-across (Analogy) Result: negative Based on available data, the classification criteria are not met. Type: in vivo assay Test species: Mouse Method: OECD Test Guideline 474 Test substance: Read-across (Analogy) Result: negative Based on available data, the classification criteria are not met.
Carcinogenicity	: Species: Mouse Application Route: inhalation (vapour) Test substance: Read-across (Analogy)

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	Based on available data, the classification criteria are not met.
Reproductive toxicity	: Species: Rat Application Route: inhalation (vapour) Test substance: Read-across (Analogy) Based on available data, the classification criteria are not met.
STOT - single exposure	: Assessment: Based on available data, the classification criteria are not met.
STOT - repeated exposure	: Assessment: Based on available data, the classification criteria are not met.
Aspiration toxicity	: May be fatal if swallowed and enters airways.

### Heavy aromatic solvent:

Acute oral toxicity	: LD50 Rat: 6,318 mg/kg Method: OECD Test Guideline 401 Remarks: Based on available data, the classification criteria are not met.
Acute inhalation toxicity	: > 4,688 mg/m3 Method: OECD Test Guideline 403 Remarks: Based on available data, the classification criteria are not met.
Acute dermal toxicity	: LD50 Rabbit: > 3,160 mg/kg Method: OECD Test Guideline 402 Remarks: No mortality observed at this dose.
Skin corrosion/irritation	: Method: OECD Test Guideline 404 Test substance: Read-across (Analogy) Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	: Method: OECD Test Guideline 405 Test substance: Read-across (Analogy) Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: Method: OECD Test Guideline 406 Test substance: Read-across (Analogy) Based on available data, the classification criteria are not met.

### Germ cell mutagenicity

Genotoxicity in vitro	: Method: OECD Test Guideline 471 Test substance: Read-across (Analogy) Based on available data, the classification criteria are not met.
Genotoxicity in vivo	: Method: OECD Test Guideline 474 Test substance: Read-across (Analogy) Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Based on available data, the classification criteria are not met.

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STOT - single exposure : Remarks: May cause drowsiness or dizziness.  
STOT - repeated exposure : Remarks: No data available  
Aspiration toxicity : May be fatal if swallowed and enters airways.

### Butanedioic acid, polyisobutenyl derivs.:

Acute oral toxicity : No data available  
Acute inhalation toxicity : No data available  
Acute dermal toxicity : No data available  
Skin corrosion/irritation : No data available  
Serious eye damage/eye irritation : Causes serious eye irritation.  
Respiratory or skin sensitisation : No data available  
Germ cell mutagenicity

Genotoxicity in vitro : No data available  
Genotoxicity in vivo : No data available  
Carcinogenicity : No data available  
STOT - single exposure : Remarks: No data available  
STOT - repeated exposure : Remarks: No data available  
Aspiration toxicity : No data available

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish : No data is available on the product itself.  
Toxicity to daphnia and other aquatic invertebrates : No data is available on the product itself.  
Toxicity to algae : No data is available on the product itself.

#### Components:

#### Naphtha (petroleum), hydrotreated heavy:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l  
Exposure time: 96 h  
Test Method: semi-static test

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	Test substance: Read-across (Analogy) Method: OECD Test Guideline 203 Based on available data, the classification criteria are not met.
Toxicity to daphnia and other aquatic invertebrates	: EL50 ( <i>Daphnia magna</i> (Water flea)): > 1,000 mg/l Exposure time: 48 h Test Method: static test Test substance: Read-across (Analogy) Method: OECD Test Guideline 202 Based on available data, the classification criteria are not met.
Toxicity to algae	: EL50 ( <i>Pseudokirchneriella subcapitata</i> (green algae)): > 1,000 mg/l Exposure time: 72 h Test Method: static test Test substance: Read-across (Analogy) Method: OECD Test Guideline 201 Based on available data, the classification criteria are not met.

### Heavy aromatic solvent:

Toxicity to fish	: LL50 ( <i>Oncorhynchus mykiss</i> (rainbow trout)): 2 - 5 mg/l Exposure time: 96 h Toxic to aquatic life with long lasting effects.
Toxicity to daphnia and other aquatic invertebrates	: LL50 ( <i>Daphnia magna</i> (Water flea)): 3 - 10 mg/l Exposure time: 48 h Test substance: Read-across (Analogy)
Toxicity to algae	: EL50 ( <i>Pseudokirchneriella subcapitata</i> (algae)): 1 - 3 mg/l Exposure time: 72 h Test substance: Read-across (Analogy)

### Butanedioic acid, polyisobutenyl derivs.:

Toxicity to fish	: No data available
Toxicity to daphnia and other aquatic invertebrates	: No data available
Toxicity to algae	: No data available

### Persistence and degradability

#### Product:

Biodegradability : No data is available on the product itself.

#### Components:

#### Naphtha (petroleum), hydrotreated heavy:

Biodegradability	: aerobic
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Result: **Inherently biodegradable.**  
Biodegradation: **31.3 %**  
Exposure time: **28 d**  
Method: **OECD Test Guideline 301F**  
Test substance: **Read-across (Analogy)**  
**According to the results of tests of biodegradability this product is not readily biodegradable.**

### Heavy aromatic solvent:

Biodegradability : Result: **Inherently biodegradable.**  
Method: **OECD Test Guideline 301F**

### Butanedioic acid, polyisobutenyl derivs.:

Biodegradability : **No data available**

### Bioaccumulative potential

#### Product:

Bioaccumulation : No data is available on the product itself.

Partition coefficient: n-octanol/water : not determined

#### Components:

### Naphtha (petroleum), hydrotreated heavy:

Bioaccumulation : **study scientifically unjustified**

### Heavy aromatic solvent:

Bioaccumulation : **No data available**

### Butanedioic acid, polyisobutenyl derivs.:

Bioaccumulation : **No data available**

### Mobility in soil

#### Product:

Mobility : No data is available on the product itself.

#### Components:

### Naphtha (petroleum), hydrotreated heavy:

Mobility : **The product evaporates readily.**

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### Butanedioic acid, polyisobutenyl derivs.:

Mobility : No data available

### Results of PBT and vPvB assessment

#### Product:

Assessment : No data is available on the product itself.

#### Components:

### Naphtha (petroleum), hydrotreated heavy:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### Heavy aromatic solvent:

Assessment : This substance is not considered to be very persistent and very bioaccumulating (vPvB)., This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

### Butanedioic acid, polyisobutenyl derivs.:

Assessment : No data available

### Other adverse effects

#### Product:

Additional ecological information : None known.

## SECTION 13. DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied, Disposal must be in accordance with applicable laws and regulations, and material characteristics at time of disposal

For the safety of persons conducting disposal, recycling or reclamation activities, refer to the information in Section 8, Exposure control and personal protection.

### Disposal methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Dispose of contents/ container to an approved waste disposal plant.

### Empty containers.

Empty Container Warning (where applicable): Empty containers may contain residue and can be

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dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

### SECTION 14. TRANSPORT INFORMATION

#### LAND (ADR)

Not regulated for transport by land

#### SEA (IMDG)

Not regulated for transport by sea under IMDG code

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks

Not applicable

#### AIR (IATA)

Not regulated for transport by air

### SECTION 15. REGULATORY INFORMATION

#### Safety, health and environmental regulations specific for the product in question

#### Environmental Protection and Management Act and Environmental Protection and Management (Hazardous Substances) Regulations

Not applicable

#### Fire Safety Act and Fire Safety (Petroleum and Flammable Material) Regulation

Not applicable

#### National chemical inventory status:

##### List

##### Status

USA, Active TSCA Inventory : On the inventory, or in compliance with the inventory

Canada, DSL Inventory : On the inventory, or in compliance with the inventory

Australia, AIIC : On the inventory, or in compliance with the inventory



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New Zealand, NZIoC	: On the inventory, or in compliance with the inventory
Japan, ENCS	: On the inventory, or in compliance with the inventory
Korea, KECI	: On the inventory, or in compliance with the inventory
Philippines, PICCS	: On the inventory, or in compliance with the inventory
China, IECSC	: On the inventory, or in compliance with the inventory
Taiwan, TCSI	: On the inventory, or in compliance with the inventory

To import this product into Korea, your company requires registrations and/or pre-registrations updates for all constituent substances that are subject to K-REACH registration.

To import this product into the EU your company requires registrations for all constituent substances that are subject to REACH registration.

### SECTION 16. OTHER INFORMATION

#### Key to the H-statements contained in sections 2 and 3 of this document.

H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Revision changes since the previous version are marked in the margins throughout this document

#### Sources of key data used to compile the Safety Data Sheet:

International Agency for Research on Cancer  
International Air Transport Association: Dangerous Goods Regulations.  
International Maritime Organization: International Maritime Dangerous Goods Code  
Component supplier data  
SS586:2014 Singapore Standard on hazard communication for hazardous chemicals and dangerous goods

#### Key or legend to abbreviations and acronyms used in the safety data sheet

DSL : Domestic Substances List (DSL)

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NDSL	: Non-Domestic Substances List (NDSL)
PICCS	: Inventory of Chemicals and Chemical Substances (PICCS)
TSCA	: TSCA Inventory
AIIC	: Australian Inventory of Industrial Chemicals (AIIC) formerly (AICS)
IECSC	: China. Inventory of Existing Chemical Substances in China (IECSC)
ENCS	: Japan. ENCS - Existing and New Chemical Substances Inventory
KECI	: Korea. Korean Existing Chemicals Inventory (KECI)
NZIoC	: New Zealand. Inventory of Chemical Substances
EINECS	: European Inventory of Existing Commercial Chemical Substances (EINECS)
ELINCS	: European List of Notified Commercial Substances (ELINCS)
TCSI	: Taiwan Chemical Substance Inventory
ATE	: Acute toxicity estimate
STEL	: Short term exposure limit
TWA	: Time weighted average
LC50	: Lethal Concentration to 50 % of a test population
LD50	: Lethal Dose to 50% of a test population (Median Lethal Dose)
PPE	: Personal Protection Equipment

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Revision Date : 27.06.2022

Issuing date : 06.02.2023