

# SAFETY DATA SHEET

according to Occupational Safety & Health Act's Standard of Classification, Labeling of chemical substances and Material Safety Data Sheet



## AFT-B201 STABILISER & SLUDGE CONDITIONER

Version 4.0

Revision Date 2024.01.05

Print Date 2024.03.24

MSDS Number : AA00542-0000000010

### 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product identifier</b>	: AFT-B201 STABILISER & SLUDGE CONDITIONER
<b>Other means of Identification</b>	: 74321
<b>Recommended use</b>	: Additive for petroleum fuels OSHA use: Fuels and additives
<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

### 2. HAZARDS IDENTIFICATION

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**This material is considered to be hazardous according to regulations.**

### GHS-Classification

Carcinogenicity: Category 2

Specific target organ toxicity - single exposure: Category 3

Aspiration hazard: Category 1

Chronic aquatic toxicity: Category 2

### GHS Label elements, including precautionary statements

Pictogram:



Signal word: Danger

Hazard statements:

H304: May be fatal if swallowed and enters airways.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H351: Suspected of causing cancer.

H411: Toxic to aquatic life with long lasting effects.

Precautionary statements:

### Prevention

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

### Response

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P304 + P340 + P312: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

P308 + P313: IF exposed or concerned: Get medical advice/ attention.

P331: Do NOT induce vomiting.

P391: Collect spillage.

### Storage

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

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### Disposal

P501: Dispose of contents and container according to wastes control act.

Contains: Solvent naphtha (petroleum), heavy arom., Naphthalene

### Other hazards which do not result in classification

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT) at >0.1%.

This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB) at > 0.1%.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance / Mixture : Mixture

#### Hazardous components

Chemical name, other name or alias	CAS number or identification number	Concentration [%]	GHS-Classification
Solvent naphtha (petroleum), heavy arom.	64742-94-5	>= 40 - < 45	STOT SE 3; H335, H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411
Naphthalene	91-20-3	>= 1 - < 5	Flam. Sol. 2; H228 Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Acute Tox. 4; H302
1,2,4-Trimethyl benzene	95-63-6	>= 1 - < 5	STOT SE 3; H335 Aquatic Chronic 2; H411 Flam. Liq. 3; H226 Asp. Tox. 1; H304 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319
C14-16-18 Alkyl Phenol	not available	>= 1 - < 5	Skin Sens. 1; H317 Acute Tox. 5; H303 STOT RE 2; H373
Distillates (petroleum), solvent dewaxed light paraffinic	64742-56-9	>= 1 - < 5	Asp. Tox. 1; H304

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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 (Trade Secret) determined not to be hazardous or are below required disclosure limits up to 100%.

### 4. FIRST AID MEASURES

#### Description of first aid measures

- General advice** : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.
- If inhaled** : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.
- 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 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.
- If swallowed** : Clean mouth with water and drink afterwards plenty of water.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Take victim immediately to hospital.

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

- Symptoms : irritant effects  
Dizziness  
Cancer  
Dermatitis  
Tiredness

#### 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.

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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.

### 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 : 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.

**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.  
In the event of fire and/or explosion do not breathe fumes.  
Use a water spray to cool fully closed containers.

### 6. ACCIDENTAL RELEASE MEASURES

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### 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.  
Retain and dispose of contaminated wash water.  
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 float on water, use containment booms as a barrier to protect shorelines.

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

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

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid formation of aerosol.  
Do not breathe vapours or spray mist.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
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.  
Handle and open container with care.

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 : -20 °C (-4 ° F) - 40 °C (104 ° F)  
temperature

Viscosity @ : 10 cSt - 90 cSt  
Loading/unloading  
temperature

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.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Observe label precautions.

No decomposition if stored and applied as directed.

Do not reheat above: 40 °C (104 ° F)

Storage temperature : -20 °C (-4 ° F) - 40 °C (104 ° F)

Incompatible materials and : Butadiene Rubber, butyl-rubber, Polyethylene, Styrene  
coatings Rubber, PVC, Compatibility with plastics will vary,  
Polystyrene, Polypropylene, Ethylene-propylene-diene

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monomer (EPDM), Natural Rubber

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters / Occupational Exposure Limits / Biological occupational exposure limits

Substance name					
Form	Limit / Standard			Note	Source
Solvent naphtha (petroleum), heavy arom.					
	TWA	17 ppm	100 mg/m3		Supplier
Naphthalene					
	STEL	15 ppm		carc 2, Skin	KR OEL
	TWA	10 ppm		carc 2, Skin	KR OEL
	TWA	10 ppm		hemolytic anemia, URT irr, cataract, A3, Skin	ACGIH
	STEL	15 ppm		hematologic eff, URT irr, eye irr, eye dam, (), (NIC), A4, Skin	ACGIH

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.

Eye/face protection : Eye wash bottle with pure water



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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.

### Advice on general occupational hygiene

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and immediately after handling the product.  
Remove contaminated clothing and protective equipment before entering eating areas.

## 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 : amberbrown  
Odour : solvent-like  
Odour Threshold : not determined

### Important health safety and environmental information

Relative density : 0.953 at 15 °C (59 ° F)  
Bulk density : Not applicable  
Density : 0.953 g/cm<sup>3</sup> at 15 °C (59 ° F)  
Method: ASTM D4052  
Flash point : ca. 67 °C (153 ° F)  
Flammability (solid, gas) : not determined  
Lower flammability limit : not determined  
Upper flammability limit : not determined

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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 acetate=1)	: Not applicable
pH	: Not applicable
Partition coefficient: n-octanol/water	: not determined
Water solubility	: < 0.0001 g/l estimated
Viscosity, kinematic	: 34 mm <sup>2</sup> /s at 0 °C (32 ° F) Method: ASTM D 445 17 mm <sup>2</sup> /s at 20 °C (68 ° F) Method: ASTM D 445 10 mm <sup>2</sup> /s at 40 °C (104 ° F) Method: ASTM D 445 90 mm <sup>2</sup> /s at -20 °C (-4 ° F) Method: ASTM D 445
Explosive properties	: not determined
Oxidizing properties	: See sections 3, 15
Decomposition temperature	: not determined
Melting point/freezing point	: not determined
Pour point	: -60 °C (-76 ° F) Method: ASTM D97

### Other information

DMSO extract by IP346	: Less than 3.0 wt% (mineral oil component only)
Coefficient of thermal expansion	: 0.00077 1/°C ITM 50-020
Molecular weight	: Not applicable

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### 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	: No dangerous reaction known under conditions of normal use.
<b>Chemical stability</b>	: Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	: Vapours may form explosive mixture with air.
<b>Conditions to avoid</b>	: Avoid heat, sparks, open flames and other ignition sources.
<b>Incompatible materials</b>	: Strong oxidizing agents
<b>Hazardous decomposition products</b>	: No decomposition if used as directed.

### 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.

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

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

### Components:

#### **Solvent naphtha (petroleum), heavy arom.:**

Acute oral toxicity	: LD50 Rat: > 5,000 mg/kg Method: OECD Test Guideline 401 Test substance: yes Remarks: Based on available data, the classification criteria are not met.
Acute inhalation toxicity	: LC50 Rat: > 4.688 mg/l Exposure time: 4 h vapour Method: OECD Test Guideline 403 Test substance: yes  Based on available data, the classification criteria are not met.
Acute dermal toxicity	: LD50 Rat: > 2,000 mg/kg Method: OECD Test Guideline 402 Test substance: yes Remarks: Based on available data, the classification criteria are not met.
Skin corrosion/irritation	: Species: Rabbit Result: No skin irritation Method: OECD Test Guideline 404 Test substance: yes 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: yes Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: Test Method: Maximisation Test Species: Guinea pig Result: Does not cause skin sensitisation. Method: OECD Test Guideline 406 Test substance: yes Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity in vitro : Result: negative  
Test substance: yes

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Genotoxicity in vivo	: Based on available data, the classification criteria are not met. Test species: Rat, Bone marrow Application Route: inhalation (vapour) Test substance: yes Result: negativeBased on available data, the classification criteria are not met.
Carcinogenicity	: No data available
Reproductive toxicity	: Test substance: Read-across (Analogy) Based on available data, the classification criteria are not met.
STOT - single exposure	: Remarks: May cause drowsiness or dizziness.
STOT - repeated exposure	: Remarks: Based on available data, the classification criteria are not met.
Aspiration toxicity	: May be fatal if swallowed and enters airways.

### Naphthalene:

Carcinogenicity	: Species: Rat Application Route: inhalation (vapour) Test substance: yes Suspected of causing cancer., NAPHTHALENE: Exposure to high concentrations of naphthalene may cause destruction of red blood cells, anemia, and cataracts. Naphthalene caused cancer in laboratory animal studies, but the relevance of these findings to humans is uncertain.
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### Distillates (petroleum), solvent dewaxed light paraffinic:

Carcinogenicity	: No data available
Aspiration toxicity	: May be fatal if swallowed and enters airways.

## 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:

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### **Solvent naphtha (petroleum), heavy arom.:**

Toxicity to fish	: LC50 ( <i>Oncorhynchus mykiss</i> (rainbow trout)): 2 - 5 mg/l Exposure time: 96 h Test Method: semi-static test Test substance: yes Method: OECD Test Guideline 203 Toxic to aquatic life.
Toxicity to daphnia and other aquatic invertebrates	: EL50 ( <i>Daphnia magna</i> (Water flea)): 3 - 10 mg/l Exposure time: 48 h Test Method: static test Test substance: yes Method: OECD Test Guideline 202 Toxic to aquatic life.
Toxicity to algae	: EC50 ( <i>Pseudokirchneriella subcapitata</i> (green algae)): 11 mg/l Exposure time: 72 h Test Method: static test Test substance: yes Method: OECD Test Guideline 201 Harmful to aquatic life.

### Persistence and degradability

#### Product:

Biodegradability : No data is available on the product itself.

#### Components:

### **Solvent naphtha (petroleum), heavy arom.:**

Biodegradability	: aerobic activated sludge Result: Inherently biodegradable. Biodegradation: 57.95 % Exposure time: 28 d Method: OECD Test Guideline 301F Test substance: yes According to the results of tests of biodegradability this product is not readily biodegradable.
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### Bioaccumulative potential

#### Product:

Bioaccumulation : No data is available on the product itself.

Partition coefficient: n- : not determined

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octanol/water

### Components:

#### **Solvent naphtha (petroleum), heavy arom.:**

Bioaccumulation : study scientifically unjustified

Partition coefficient: n-octanol/water : No data available

### Mobility in soil

#### Product:

Mobility : No data is available on the product itself.

#### Components:

#### **Solvent naphtha (petroleum), heavy arom.:**

Mobility : After release, adsorbs onto soil.

#### **Distillates (petroleum), solvent dewaxed light paraffinic:**

Mobility : After release, adsorbs onto soil.

### Results of PBT and vPvB assessment

#### Product:

Assessment : No data is available on the product itself.

#### Components:

#### **Solvent naphtha (petroleum), heavy arom.:**

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).

#### **Distillates (petroleum), solvent dewaxed light paraffinic:**

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).

### Other adverse effects

#### Product:

Additional ecological information : Test data on the whole aromatic solvent overrides the calculated contribution of naphthalene.

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### 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 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.

### 14. TRANSPORT INFORMATION

#### LAND (ADR)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Heavy aromatic solvent)

Class	9
UN number	UN3082
Packing group	III
Labels	9
Hazard Identification Number	90
Hazchem Code	.3Z
Environmentally hazardous	yes

#### SEA (IMDG)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Heavy aromatic solvent)

Class	9
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UN number	UN3082
Packing group	III
Labels	9
EmS Number 1	F-A
EmS Number 2	S-F
Marine pollutant	yes

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

Remarks	Not applicable
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### AIR (IATA)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Heavy aromatic solvent)

Class	9
UN number	UN3082
Packing group	III
Labels	9

### Special precautions for user

For personal protection see section 8.  
No special precautions required.

## 15. REGULATORY INFORMATION

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

#### Korea. Regulations under Chemical Control Act and the Act on Registration and Evaluation, etc. of Chemical Substances

All substances in this product are listed on the Existing Chemicals Inventory (KECI) and/or cleared from new chemical notification requirements (does not contain any non phase-in substances).

Product does not contain any regulated chemicals above the threshold limits in the following list(s):

Substance subject to Authorisation  
Toxic Chemicals  
Prohibited Chemicals  
Restricted Chemicals  
Accident Precaution Chemicals

Product contains regulated chemicals in the following list(s):

List	Component	Number	Threshold limits
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Priority Existing Chemicals	Naphthalene	65	$\geq 0\%$ This ingredient is an impurity and will be ignored.
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### Dangerous Substances Safety Management Act

Flammable liquids Type 2 petroleums

### Regulation under the Occupational Safety and Health Act

This product is subjected to the SDS, labelling and other requirements of this regulation.

Product does not contain any regulated chemicals above the threshold limits in the following list(s):

Harmful Substances Prohibited from Manufacturing  
Harmful Substances Required Permission for Manufacture  
Hazardous substances requiring management  
Controlled Substances Subject to Environment Monitoring  
Controlled Substances Subject to Health Examination  
Harmful Agents Required to be kept below Permission Levels

### Wastes Control Act :

Dispose of in accordance with local regulations. For disposal considerations see section 13.

### National chemical inventory status:

List	Status
TSCA	: Listed
DSL	: Listed
AICS	: Listed
NZIoC	: Listed
ENCS	: Listed
KECI	: Listed
PICCS	: Listed
IECSC	: Listed
TCSI	: Listed

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

## 16. OTHER INFORMATION

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

H226 Flammable liquid and vapour.

# SAFETY DATA SHEET

according to Occupational Safety & Health Act's Standard of  
Classification, Labeling of chemical substances and Material  
Safety Data Sheet



## AFT-B201 STABILISER & SLUDGE CONDITIONER

Version 4.0

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H228	Flammable solid.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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  
Standards for classification and labeling of chemical substances and material safety data  
sheet (Ministry of Employment and Labor public notice No. 2020-130).

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

DSL	: Domestic Substances List (DSL)
NDSL	: Non-Domestic Substances List (NDSL)
PICCS	: Inventory of Chemicals and Chemical Substances (PICCS)
TSCA	: TSCA Inventory
AICS	: Australia Inventory of Chemical Substances (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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### Procedure used to derive the classification for mixture:

Classification	Classification procedure:
Carcinogenicity, Category 2, H351	Calculation method
Specific target organ toxicity - single exposure, Category 3, Respiratory system, H335	Calculation method
Aspiration hazard, Category 1, H304	Calculation method
Chronic aquatic toxicity, Category 2, H411	Calculation method

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