

SECTION 1: Identification of the substance/mixture and of the company**Product Identifier**

Product Name: PowerSorb™ 384-2
Chemical Name: 3-(2H-Benzotriazolyl)-5-(1,1-di-methylethyl)-4-hydroxy-benzenepropanoic acid octyl esters
CAS-No.: 127519-17-9

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

Relevant applications identified For industrial use

Details of the supplier of the safety data sheet

Company Tintoll Performance Materials Co.,Ltd.
A-703, No. 50 Jialingjiang East St, Nanjing, China
Email: SDS@ Tintoll.com

Emergency Telephone Number: +86-25-8468-0091

SECTION 2: Hazardous identification**According to Hazardous Products Regulations (HPR) (SOR/2015-17)****Classification of the product**

Flam. Liq.	4	Flammable liquids
Aquatic Acute	2	Hazardous to the aquatic environment - acute
Aquatic Chronic	2	Hazardous to the aquatic environment - chronic

Label elements

Pictogram:



Signal Word:

Warning

Hazard Statement:

H227	Combustible liquid.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P273	Avoid release to the environment.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves and eye/face protection.

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Precautionary Statements (Response):

P391 Collect spillage.
 P370 + P378 In case of fire: Use water spray, dry powder or foam for extinction.

Precautionary Statements (Storage):

P403 + P235 Store in a well-ventilated place. Keep cool.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

According to Controlled Products Regulations (CPR) (SOR/88-66)

Emergency overview

CAUTION:

COMBUSTIBLE LIQUID.

This product may cause slight eye, skin and respiratory irritation.

The substance may cause damage to the olfactory epithelium after repeated inhalation.

Chronic exposure may cause liver effects.

Avoid skin contact.

Avoid inhalation.

The statements are based on the properties of the individual components.

Keep away from heat, sparks, and open flames.

SECTION 3: Composition/information on ingredients

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

CAS Number	Content (W/W)	Chemical name
127519-17-9	>= 75.0 - <= 100.0%	Benzenepropanoic acid, 3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched and linear alkyl esters
108-65-6	>= 1.0 - < 10.0 %	1-methoxy-2-propylacetate

According to Controlled Products Regulations (CPR) (SOR/88-66)

CAS Number	Content (W/W)	Chemical name
127519-17-9	60.0 -100.0%	Benzenepropanoic acid, 3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched and linear alkyl esters
108-65-6	3.0 - 7.0 %	1-methoxy-2-propylacetate

SECTION 4: First aid measures**Description of first aid measures****General advice:**

Remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

If on skin:

Wash thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open. If irritation develops, seek medical attention.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Firefighting measures**Extinguishing media**

Suitable extinguishing media:

water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:

water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

Environmental precautions

Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

Spills should be contained, solidified, and placed in suitable containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Keep away from sources of ignition - No smoking.

Protection against fire and explosion:

Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

SECTION 8: Exposure Controls/Personal Protection

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Safety glasses with side-shields. Wear face shield if splashing hazard exists.

General safety and hygiene measures:

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. Eye wash fountains and safety showers must be easily accessible.

SECTION 9: Physical and Chemical Properties

Form

viscous, liquid

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Colour	yellow
Odour	aromatic
Odour Threshold	Not determined due to potential health hazard by inhalation.
pH value	not determined
Melting point	< -29.4 °C (Directive 92/69/EEC, A.1) Information based on the main components.
Boiling point	146.4 °C Information applies to the solvent.
Flash point	74.5 °C (Directive 92/69/EEC, A.9)
Flammability	not determined
Lower explosion limit	For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.
Upper explosive limits	For liquids not relevant for classification and labelling.
Autoignition	360 °C Information applies to the solvent.
Vapour pressure	0.000003 Pa (25 °C) (Directive 92/69/EEC, A.4) Information based on the main components.
density	1.07 g/cm ³ (20 °C) (OECD Guideline 109) Information based on the main components.
Relative density	No data available.
Vapour density	not determined
Partitioning coefficient noctanol/ water (log Pow):	9.2 (20 - 25 °C) (OECD Guideline 117) Information based on the main components.
Self-ignition Temperature	415 °C (Directive 92/69/EEC, A.15) Information based on the main components.
Thermal decomposition	> 150 °C

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Solubility in water	< 0.18 mg/l (20 °C) Information based on the main components.
Evaporation rate	not determined

SECTION 10: Stability And Reactivity**Reactivity**

No hazardous reactions if stored and handled as prescribed/indicated

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

The product is chemically stable.

Conditions to avoid

Avoid electro-static discharge. Avoid sources of ignition.

Incompatible materials

strong acids, strong bases, strong oxidizing agents

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

> 150 °C

SECTION 11: Toxicological Information**Primary routes of exposure**

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Primary routes of entry

Inhalation.

Eyes

Skin

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: In animal studies the substance is virtually nontoxic after a single ingestion.

In animal studies the substance is virtually nontoxic after a single skin contact. The product has not been tested. The statement has been derived from the properties of the individual components.

Inhalation

Type of value: LC50

Species: rat

Exposure time: 4 h

not determined

Irritation / corrosion

Assessment of irritating effects: May cause slight irritation to the eyes. Inhalation of vapours or aerosols may cause respiratory tract irritation. Prolonged or repeated contact may cause mild skin irritation. The product has not been tested. The statement has been derived from the properties of the individual components.

Sensitization

Assessment of sensitization: No sensitizing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Repeated dermal exposure to large quantities may affect certain organs. Repeated inhalation exposure to large quantities may affect certain organs. The substance may cause damage to the olfactory epithelium after repeated inhalation. The substance may cause damage to the liver after repeated inhalation. The product has not been tested. The statement has been derived from the properties of the individual components.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

SECTION 12: Ecological Effects

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

Toxicity to fish

LC50 (96 h) > 9.9 mg/l, Brachydanio rerio (OECD Guideline 203)

The ecological data given are those of the active ingredient.

Aquatic invertebrates

EC50 (48 h) 3.2 mg/l, Daphnia magna (OECD Guideline 202, part 1)

The ecological data given are those of the active ingredient.

Aquatic plants

EC50 (72 h) > 2 mg/l, Scenedesmus sp. (OECD Guideline 201)

The ecological data given are those of the active ingredient. Tested above maximum solubility. No toxic effects occur within the range of solubility. No effects at the highest test concentration.

Chronic toxicity to fish

No data available.

Chronic toxicity to aquatic invertebrates

No data available.

Microorganisms/Effect on activated sludge**Toxicity to microorganisms**

OECD Guideline 209 activated sludge/EC50 (3 h): > 100 mg/l

The ecological data given are those of the active ingredient.

Persistence and degradability**Assessment biodegradation and elimination (H₂O)**

Not readily biodegradable (by OECD criteria). The product has not been tested. The statement has been derived from the properties of the individual components.

Mobility in soil**Assessment transport between environmental compartments**

No data available.

Additional information

Add. remarks environm. fate & pathway:

Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:

Do not discharge product into the environment without control.

SECTION 13: Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations. Do not discharge into drains/surface waters/groundwater.

Container disposal:

Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. Dispose of in accordance with national, state and local regulations.

SECTION 14:Transport Information**Land transport**

TDG

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Marine pollutant: YES
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (contains BENZOTRIAZOLE DERIVATIVE)

Air transport

IATA/ICAO

Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (contains BENZOTRIAZOLE DERIVATIVE)

Further information

Not dangerous goods of class 3 in packages up to 450 litres capacity (valid for ADR, ADNR, RID,TDG and USDOT). e

SECTION 15:Regulatory Information**Federal Regulations****Registration status:**

Chemical DSL, CA released / listed

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

SECTION 16:Other Information**Any other precaution**

The information herein is made based on references, information and data available at present. It maybe revised when new information is available.

The descriptions herein are for normal handling. For special application ,make safety provisions suitable to them prior to use.