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

**Product Code:** PowerSorb™ 1130  
**Product name:**  
**Manufacturer:** Tintoll Performance Materials Co.,Ltd.  
**Post Address:** A703, No.50 Jialingjiang East St, Nanjing, China  
Email: SDS@TinToll.com  
**Emergency Telephone Number:** +86-25-8468-0091  
**Use of Substance:** For Industrial Use

**SECTION 2: Hazardous identification****Emergency overview**

SENSITIZER.

May cause sensitization by skin contact.

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

State of matter: liquid

Colour: yellow to brownish

Odour: odourless

**Potential health effects****Acute toxicity:**

Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

**Irritation / corrosion:**

Not irritating to the skin. Not irritating to the eyes.

**Assessment other acute effects:**

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

**Sensitization:**

Caused skin sensitization in animal studies.

**Chronic toxicity:****Carcinogenicity:** No data was available concerning carcinogenic activity.

Repeated dose toxicity: The substance may cause damage to the liver after repeated ingestion.

Effect found in rodents only. The relevance to humans is questionable. Due to the species specific mode of action, the effects are not expected to occur in humans.

**Reproductive toxicity:** The results of animal studies gave no indication of a fertility impairing effect.

Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the

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parental animals.

**Teratogenicity:** In animal studies the substance did not cause malformations.

**Genotoxicity:** The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in studies with mammals.

**Signs and symptoms of overexposure:**

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 3: Composition/information on ingredients

CAS Number	Content (W/W)	Hazardous ingredients
104810-47-1	30.0 - 60.0 %	Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-[3-[3-(2 H- benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hy hydroxyphenyl]-1-oxopropoxy]-
104810-48-2	30.0 - 60.0 %	Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-( 2H-benzotr benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4- 4-hydroxyphenyl-1-oxopropyl]-.omega.- hydroxy-

### SECTION 4: First aid measures

**General advice:**

Immediately remove contaminated clothing.

**If inhaled:**

Keep patient calm, remove to fresh air. Assist in breathing if necessary. Consult a physician.

**If on skin:**

Wash thoroughly with soap and water.

**If in eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

Seek medical attention.

**If swallowed:**

Rinse mouth thoroughly with water, seek medical attention.

**Note to physician**

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

**SECTION 5: Firefighting measures**

Flash point:	218 °C	(DIN EN 22719; ISO 2719, closed cup)
Autoignition:	405 °C	(DIN 51794)
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 explosion limit:		For liquids not relevant for classification and labelling.
Flammability:	Product is combustible.	
Self-ignition temperature:		Based on its structural properties the product is not classified as self-igniting.

**Suitable extinguishing media:**

water spray, dry powder, foam

**Unsuitable extinguishing media for safety reasons:**

water jet

Hazards during fire-fighting:

harmful vapours

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

**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:**

Use personal protective clothing. Keep people away and stay on the upwind side.

**Environmental precautions:**

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

**Cleanup:**

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

**SECTION 7: Handling and storage****Handling****General advice:**

No special measures necessary provided product is used correctly.

**Protection against fire and explosion:**

Take precautionary measures against static discharges.

**Storage****General advice:**

Keep container tightly closed and dry; store in a cool place.

**SECTION 8: Exposure Controls/Personal Protection****Advice on system design:**

Ensure adequate ventilation.

**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.

**Body protection:**

Impermeable protective clothing

**General safety and hygiene measures:**

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied

**SECTION 9: Physical and Chemical Properties**

Form	viscous, liquid
Colour	yellow to brownish
Odour	odourless

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Odour Threshold	No data available	
pH value	approx. 6.5	( 10 g/l, 20 - 25 °C) (as suspension)
Freezing point	> -30 °C	( 1,013 hPa) (Screening test)
Boiling point	166 °C	( 0.011 kPa) (OECD Guideline 103)
		Information applies to the solvent.
Vapour pressure:	0.0048 hPa	( 25 °C) (OECD Guideline 104)
Density	1.1694 g/cm <sup>3</sup>	( 20 °C, 1,013 hPa) (DIN 53217)
Relative density	approx. 1.17	( 20 °C)
Vapour density		not determined
Partitioning coefficient		
noctanol/water (log Pow):	-1.3 - 5.9	( 25 °C) (OECD Guideline 117)
Viscosity, dynamic	7,400 mPa.s	( 20 °C) (DIN 53019)
Particle size		The substance / product is marketed or used in a non solid or granular form.
% volatiles	0.5 %	VOC concentration >0, <=3%
Solubility in water	0.0077 g/l	( 20 °C, 1,013 hPa)
Solubility in other solvents	113 g/kg	standard fat ( 37 °C)

## SECTION 10: Stability And Reactivity

### Conditions to avoid:

See MSDS section 7 - Handling and storage.

### Substances to avoid:

strong acids, strong bases, strong oxidizing agents

### Hazardous reactions:

No hazardous reactions when stored and handled according to instructions.

The product is chemically stable.

### Decomposition products:

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

### Thermal decomposition:

> 250 °C

### Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

## SECTION 11: Toxicological Information

### Acute toxicity

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**Oral:**

Type of value: LD50

Species: rat

Value: &gt; 5,000 mg/kg (OECD Guideline 401)

No mortality was observed.

**Inhalation:**

Type of value: LC50

Species: rat

Value: &gt; 5.8 mg/l (OECD Guideline 403)

Exposure time: 4 h

No mortality was observed.

**Dermal:**

Type of value: LD50

Species: rat

Value: &gt; 2,000 mg/kg (OECD Guideline 402)

No mortality was observed.

**Irritation / corrosion****Skin:**

Species: rabbit

Result: non-irritant

Method: OECD Guideline 404

**Eye:**

Species: rabbit

Result: non-irritant

Method: OECD Guideline 405

**Sensitization:**

Guinea pig maximization test

Species: guinea pig

Result: sensitizing

Method: OECD Guideline 406

**Aspiration Hazard:**

not applicable

**SECTION 12: Ecological Effects****Fish**

Acute:

OECD 203; ISO 7346; 84/449/EEC, C.1 static

Oncorhynchus mykiss/LC50 (96 h): 2.8 mg/l

The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. Nominal concentration.

#### **Aquatic invertebrates**

Acute:

static

Daphnia magna/EC50 (48 h): 4 mg/l

The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. Nominal concentration.

Chronic:

OECD Guideline 202, part 2 semistatic Daphnia magna (NOEC) 21 d 0.78 mg/l

The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. Nominal concentration.

#### **Aquatic plants**

Toxicity to aquatic plants:

OECD Guideline 201 static

green algae/EC50 (72 h): > 100 mg/l

Nominal concentration.

OECD Guideline 201 static

green algae/EC10 (72 h): 10 mg/l

Nominal concentration.

#### **Microorganisms**

Toxicity to microorganisms:

OECD Guideline 209 static

activated sludge, domestic/EC50 (3 h): > 1,000 mg/l

#### **Non-Mammals**

Other terrestrial non-mammals:

Study scientifically not justified.

#### **Plant**

Toxicity to terrestrial plants:

Study scientifically not justified.

#### **Soil living organisms**

Toxicity to soil dwelling organisms:

OECD Guideline 207 artificial soil

Eisenia foetida/LC0 (14 d): > 1,000 mg/kg

No effects at the highest test concentration.

OECD Guideline 222 artificial soil

Eisenia foetida/No observed effect concentration (56 d): 100 mg/kg

No effects at the highest test concentration.

#### **Degradability / Persistence**

##### **Biological / Abiological Degradation**

Test method: OECD 301B; ISO 9439; 92/69/EEC, C.4-C (aerobic),

Method of analysis: CO<sub>2</sub> formation relative to the theoretical value

Degree of elimination: 24 % (28 d)

Test method: OECD 308 (aerobic),

Method of analysis: C-14 labelling

Degree of elimination: 1 % (100 d)

Test method: OECD 308 (anaerobic),

Method of analysis: C-14 labelling

Degree of elimination: 0.2 % (100 d)

Evaluation: Not readily biodegradable (by OECD criteria).

Moderately/partially biodegradable.

#### **Hydrolysis**

Study technically not feasible.

#### **Bioaccumulation**

OECD-Guideline 305

Rainbow trout (502 h) Bioconcentration factor 34

#### **Environmental mobility:**

##### **Transport between environmental compartments:**

calculated Adsorption/water - soil

KOC: 14618

log KOC: 4.2

OECD Guideline 106 Adsorption/water - soil

Study technically not feasible.

#### **Other adverse effects:**

Do not discharge product into the environment without control.

## **SECTION 13: Disposal considerations**

#### **Waste disposal of substance:**

Must be disposed of or incinerated in accordance with local regulations.

#### **Container disposal:**

Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.



### 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, EHS

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, EHS

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (contains BENZOTRIAZOLE  
DERIVATIVE)

### SECTION 15: Regulatory Information

#### VOC content:

VOC concentration >0, <=3%

#### Federal Regulations

#### Registration status:

Chemical DSL, CA released / listed

**WHMIS classification:** D2B: Materials Causing Other Toxic Effects - Toxic  
Material



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**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.