SAFETY DATA SHEET
Tru-Bond™ PSA 4500

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

1.1. Product identifier

Product name: Tru-Bond™ PSA 4500
Product No.: 18429, 18450, 18453

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

Identified uses: Adhesive.
Uses advised against: No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Manufacturer: ITW Performance Polymers (Wujiang) Co. Ltd.
No.4680 North Pangjin Road Economic Development Zone
Wujiang, Jiangsu, China
Telephone: (+86) 512-63488388
Fax: (+86) 512-63091890
E-mail Address: info@itwppfchina.com

1.4. Emergency telephone number

For emergencies in US, call CHEMTREC: 1-800-424-9300 / +1 703-527-3887;
For emergencies in Mexico, call CHEMTREC: 01-800-681-9531;
For emergencies in China, call National Emergency Telephone number: (+86) 0532-83889090(24H).

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards: Not classified.
Human health: Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; STOT SE 3 - H335
Environment: Aquatic Chronic 2 - H411

2.2. Label elements

Label In Accordance With (EC) No. 1272/2008
No pictogram required.

Signal Word: Warning

Hazard Statements:
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements:
P271: Use only outdoors or in a well-ventilated area.
**Tru-Bond™ PSA 4500**

P273
Avoid release to the environment.

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

P305+351+338
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P313
Get medical advice/attention.

P501
Dispose of contents/container to ...

**Supplementary Precautionary Statements**

P261
Avoid breathing vapour/spray.

P264
Wash contaminated skin thoroughly after handling.

P313
Get medical advice/attention.

P321
Specific treatment (see medical advice on this label).

P302+352
IF ON SKIN: Wash with plenty of soap and water.

P304+340
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312
Call a POISON CENTER or doctor/physician if you feel unwell.

P332+313
If skin irritation occurs: Get medical advice/attention.

P337
If eye irritation persists:

P362
Take off contaminated clothing and wash before reuse.

P391
Collect spillage.

P403+233
Store in a well-ventilated place. Keep container tightly closed.

P405
Store locked up.

**2.3. Other hazards**

No other hazards.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2. Mixtures**

<table>
<thead>
<tr>
<th>Urethane Acrylate Oligomer</th>
<th>30-60%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No.: Proprietary</td>
<td></td>
</tr>
<tr>
<td>Classification (EC 1272/2008)</td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2 - H315</td>
<td></td>
</tr>
<tr>
<td>Eye Irrit. 2 - H319</td>
<td></td>
</tr>
<tr>
<td>STOT SE 3 - H335</td>
<td></td>
</tr>
<tr>
<td>Aquatic Chronic 2 - H411</td>
<td></td>
</tr>
<tr>
<td>Classification (67/548/EEC)</td>
<td></td>
</tr>
<tr>
<td>Xi;R36/37/38.</td>
<td></td>
</tr>
<tr>
<td>N;R51/53.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acrylate Monomer</th>
<th>10-30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No.: 5888-33-5</td>
<td></td>
</tr>
<tr>
<td>Classification (EC 1272/2008)</td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2 - H315</td>
<td></td>
</tr>
<tr>
<td>Eye Irrit. 2 - H319</td>
<td></td>
</tr>
<tr>
<td>STOT SE 3 - H335</td>
<td></td>
</tr>
<tr>
<td>Aquatic Chronic 2 - H411</td>
<td></td>
</tr>
<tr>
<td>Classification (67/548/EEC)</td>
<td></td>
</tr>
<tr>
<td>Xi;R36/37/38.</td>
<td></td>
</tr>
<tr>
<td>N;R51/53.</td>
<td></td>
</tr>
</tbody>
</table>
Tru-Bond™ PSA 4500

High Boiling (Meth)acrylate Monomers 10-30%

CAS-No.: Proprietary

Classification (EC 1272/2008)
Acute Tox. 4 - H302
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

Classification (67/548/EEC)
Xn;R22.
N;R50/53.

Classification (EC 1272/2008)
Repr. Cat. 3;R62.
R52/53.

Classification (67/548/EEC)
Repr. Cat. 3;R62.
R52/53.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information
Get medical attention if any discomfort continues.

Inhalation
IF INHALED: Remove person to fresh air and keep comfortable for breathing. If respiratory problems, artificial respiration/oxygen. Call a POISON CENTER or doctor

Ingestion
IF SWALLOWED: DO NOT induce vomiting. Call a POISON CENTER or doctor Never give anything by mouth to an unconscious person.

Skin contact
IF ON SKIN: Take off contaminated clothing. Wash with plenty of water several minutes. If skin irritation occurs: Get medical advice/attention.

Eye contact
IF IN EYES: Hold eyelids apart. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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

General information
The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

Inhalation
May cause severe respiratory system irritation. High concentration may cause dizziness, headache, and anesthetic effects. May cause respiratory sensitization with asthma-like symptoms in susceptible individuals.

Ingestion
Cause irritation. A burning sensation of the mouth, throat and gastrointestinal tract. Abdominal pain.

Skin contact
Can cause skin irritation. Itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.

Eye contact
Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.

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

Treatment should be controlled by symptoms and clinical conditions.
SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media
Extinguish with carbon dioxide or dry powder.

Unsuitable extinguishing media
Avoid water in straight hose stream, which will scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products
Not determined.

Unusual Fire & Explosion Hazards
Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization.

5.3. Advice for firefighters

Special Fire Fighting Procedures
Evacuate area of unprotected personnel. Fight advanced or massive fires from safe distance or protected location. Use water to keep fire exposed containers cool and disperse vapours. Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters
Self contained breathing apparatus and full protective clothing must be worn in case of fire. Extinguish at a up wind place.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For personal protection, see section 8. Avoid inhalation of vapours and aerosol spray. Avoid contact with skin and eyes. Follow precautions for safe handling described in this safety data sheet.

6.2. Environmental precautions

The product belongs to water pollutant. Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Well ventilated and well protected.

[1] Small Spillages: Collect the spillages into a closed container. Absorb with inert, damp, non-combustible material, then transit to a safety place.

[2] Large Spillages: Stop the flow of material if this is without risk. Dike the spilled material. Cover with plastic sheet to prevent spreading. Pump or shovel to storage or salvage vessels. Prevent entry into waterways, sewer, basements or confined areas.


6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Provide good ventilation. Avoid breathing vapor, aerosol or mist. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area. Keep away from sources of heat and incompatible materials. Keep container tightly sealed when not in use.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.2. Exposure controls

Process conditions
Provide eyewash, quick drench.

Engineering measures
Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment
Wear respiratory protection with combination filter at high concentration. At emergency, respiratory protection with air supply must be use.

Hand protection
Impervious gloves (Neoprene, latex, polypropylene or chloroprene).

Eye protection
Wear tight-fitting goggles or face shield.

Other Protection
Provide eyewash, quick drench.

Hygiene measures
Wash thoroughly after handling. Form a good habit.

Personal protection
People unprotected as required are not allowed into the work area.

Skin protection
Wear apron or protective clothing in case of splashes.

Environmental Exposure Controls
Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance
Viscous liquid.

Colour
Colourless to pale yellow.

Odour
Distinctive.

Solubility
Partially Insoluble.

Initial boiling point and boiling range (°C)
Not determined.

Melting point (°C)
Not determined.

Relative density
1.07 25°C

Vapour density (air=1)
>1

Vapour pressure
0.01 mm Hg 20 °C

Evaporation rate
<1

pH-Value, Diluted Solution
Not determined.

Decomposition temperature (°C)
Not determined.

Flash point (°C)
>100 °C Sh CC (Setaflash closed cup).

Auto Ignition Temperature (°C)
Not determined.

Flammability Limit - Lower(%)
Not determined.
Flammability Limit - Upper(%)  
Not determined.

Partition Coefficient  
(N-Octanol/Water)  
Not determined.

9.2. Other information  
No information required.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity  
No data available.

10.2. Chemical stability  
Material is stable under normal conditions.

10.3. Possibility of hazardous reactions  
Hazardous Polymerisation  
Polymerization may occur under certain conditions.  
Polymerisation Description  
Polymerizes generating heat.

10.4. Conditions to avoid  

10.5. Incompatible materials  
Materials To Avoid  

10.6. Hazardous decomposition products  
Not determined.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects  
Toxicological information  
No data available.

Skin Corrosion/Irritation:  
Causes skin irritation.

Serious eye damage/irritation:  
Causes serious eye irritation.

Respiratory or skin sensitisation:  
Respiratory sensitisation  
Based on available data the classification criteria are not met.  
Skin sensitisation  
Based on available data the classification criteria are not met.

Germ cell mutagenicity:
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.

Specific target organ toxicity - single exposure:
May cause respiratory irritation.

Specific target organ toxicity - repeated exposure:
Based on available data the classification criteria are not met.

Aspiration hazard:
Based on available data the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
There are no data on the ecotoxicity of this product.

12.1. Toxicity
No related data.

12.2. Persistence and degradability
No information.

12.3. Bioaccumulative potential
Bioaccumulative potential
No data available on bioaccumulation.
Partition coefficient
Not determined.

12.4. Mobility in soil
Mobility:
No reports available

12.5. Results of PBT and vPvB assessment
Not applicable.

12.6. Other adverse effects
No information required.

SECTION 13: DISPOSAL CONSIDERATIONS

General information
Dispose of contents/container in accordance with local/regional/national/international regulation.

13.1. Waste treatment methods

【1】Waste from residues or unused products:
Recycling as much as possible. If not be recycled, arrange disposal of residual chemicals and contaminated containers in accordance to the state and local regulations.
Do not employ the disposal method by discharging into the sewer.
**Tru-Bond™ PSA 4500**

**[2] Contaminated Packaging:**
Do not reuse containers without proper cleaning or reconditioning. The container shall be returned to the manufacturer or disposed of in accordance with state and local guidelines.

**[3] Precaution When Disposal:**
Safety precautions of disposal, see section 8. The product shall be treated as hazardous waste even if it is discarded on the condition not used or contaminated.

### SECTION 14: TRANSPORT INFORMATION

**General**
Read safety instructions, SDS and emergency procedures before handling.

**14.1. UN number**
3082

**14.2. UN proper shipping name**
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

**14.3. Transport hazard class(es)**
9

**Transport Labels**

- [Miscellaneous Dangerous Goods]

**14.4. Packing group**
III

**14.5. Environmental hazards**
Environmentally Hazardous Substance/Marine Pollutant

**14.6. Special precautions for user**
Read safety instructions, SDS and emergency procedures before handling.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
Not applicable.

### SECTION 15: REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
National Regulations
Australia-Australian Inventory of Chemical Substances (AICS)
Canada-Domestic Substance List (DSL)/Non Domestic Substances List(NDSL)
China-Inventory of Existing Chemical Substances in China (IECSS)
Europe-European Inventory of Existing Commercial Chemical Substances(EINECS)/European List of Notified Chemical Substances(ELINCS)
Japan-Inventory of Existing and New Chemical Substances (ENCS)
Korea-Existing Chemicals List(ECL)
New Zealand-New Zealand Inventory
Philippines-Philippine Inventory of Chemicals and Chemical Substances(PICCS)
United States & Puerto Rico-Toxic Substances Control Act(TSCA) Inventory

15.2. Chemical Safety Assessment
No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet
MAC: Maximum Allowable Concentration.
PC-TWA: Permissible Concentration-Time Weighted Average.
PC-STEL: Permissible Concentration-Short Term Exposure Limit.
IARC: International Agency for Research on Cancer.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
IMDG: International Maritime Dangerous Goods.
ICAO/IATA: International Air Transportation Association.
CAS: Chemical Abstracts Service.
LC50/LD50: Lethal Concentration 50%/Lethal Dose 50%.
STOT: Specific target organ toxicity.

General information
Only trained personnel should use this material.

Issued By ITW Performance Polymers (Wujiang) Co. Ltd.
Revision Date 18/05/2020
Revision 2
Supersedes date 14/04/2015

Disclaimer
This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.