

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.

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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.
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**

Urethane Acrylate Oligomer	30-60%
CAS-No.: Proprietary	
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 Aquatic Chronic 2 - H411	Classification (67/548/EEC) Xi;R36/37/38. N;R51/53.
Acrylate Monomer	10-30%
CAS-No.: 5888-33-5	
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 Aquatic Chronic 2 - H411	Classification (67/548/EEC) Xi;R36/37/38. N;R51/53.

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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.	
Photoinitiator System		1-5%
CAS-No.: 75980-60-8		
Classification (EC 1272/2008) Repr. 2 - H361f Aquatic Chronic 3 - H412	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.

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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.

【3】 Other Precautions: Add inhibitor to prevent polymerization.

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.

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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.

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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

Extreme heat, spark, and open flame. Incompatible materials. Oxidizers. Oxidizing conditions. Oxygen-free atmospheres. Inert gas blanketing. Freezing conditions. Material can soften paint and rubber.

10.5. Incompatible materials**Materials To Avoid**

Oxidizing agents(eg peroxides, nitrates). Reducing agents. Acid. Bases. Azo-compounds. Catalytic metals(eg copper, iron) Free radical initiators. Oxygen scavengers.

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:

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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.

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【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 (Acrylate Monomer, Photoinitiator System)

14.3. Transport hazard class(es)

9

Transport Labels

**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

Tru-Bond™ PSA 4500**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	18/05/2024
Revision	3
Supersedes date	18/05/2020

Disclaimer

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