

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. 18450, 18453

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

Identified uses Adhesive. For industrial and professional use only.
Uses advised against Uses other than identified.

1.3. Details of the supplier of the safety data sheet

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

1.4. Emergency telephone number

CHEMTRIC: +1 703-741-5970 (International), 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



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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.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing vapour/spray.
P264	Wash contaminated skin thoroughly after handling.
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.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P332+313	If skin irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P321	Specific treatment (see medical advice on this label).
P337+313	If eye irritation persists: Get medical advice/attention.
P403+233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to in accordance with local/regional/ national/international regulations.

2.3. Other hazards

No other hazards.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Urethane Acrylate Oligomer	30-60%
CAS-No.: Proprietary	

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Classification (EC 1272/2008)

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

STOT SE 3 - H335

Aquatic Chronic 2 - H411

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

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

Photoinitiator System

1-5%

CAS-No.: 75980-60-8

Classification (EC 1272/2008)

Repr. 2 - H361f

Aquatic Chronic 3 - H412

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

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.

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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.

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.

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【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 and well-ventilated place. 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

Ingredient Comments

No occupational exposure limits noted for the ingredient(s).

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. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

Personal protection

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

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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.

Comments

Refer to the Technical Data Sheet for more information.

9.2. Other information

Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product is stable and non-reactive under recommended conditions of use, storage and transport.

10.2. Chemical stability

Material is stable under normal conditions.

10.3. Possibility of hazardous reactions

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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:

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

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Ecotoxicity

Toxic to aquatic life with long lasting effects.

12.1. Toxicity

No data available.

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

No information available.

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:

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (See: Disposal instructions).

【2】Contaminated Packaging:

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

【3】Disposal instructions:

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

SECTION 14: TRANSPORT INFORMATION

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General

The product is not subject to any other provisions of ADR according to special provision 2.2.3.1.5.2, is not subject to any other provisions of IMDG Code according to special provision 2.10.2.7 and is not subject to any other provisions of IATA DGR according to special provision A197 because the net quantity per single or inner packaging is 5L/5kg or less.

Road Transport Notes

The product is not subject to any other requirements of Title 49 CFR according to section 171.4.(2) because the net quantity per single or inner packaging is 5L/5kg or less.

14.1. UN number

Not regulated

14.2. UN proper shipping name

Not regulated

14.3. Transport hazard class(es)

Not regulated

14.4. Packing group

Not regulated

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

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

China-Inventory of Existing Chemical Substances in China (IECSC)

Japan-Japan Existing and New Chemical Substances Inventory (ENCS)

Korea-Korea Existing Chemicals List (KECL)

USA-TSCA Chemical Substance Inventory

EU-EU EINECS/ELINCS/NLP

New Zealand-New Zealand Inventory of Chemicals (NZIoC)

Philippines-Philippine Inventory of Chemicals and Chemical Substances (PICCS)

Australia-Australian Inventory of Industrial Chemicals (AIIC)

Canada-Canada Domestic Substances List (DSL)

15.2. Chemical Safety Assessment

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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.

Revision Date 14/11/2025

Revision 5

Supersedes date 14/11/2025

Disclaimer

ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.