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# Tru-Bond<sup>™</sup> UB 3000

**Stock Number:** 

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**HMIS** 

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Tru-Bond<sup>TM</sup> UB 3000 **Product Name:** 

**Chemical Name:** N/A CAS NO.: N/A

**UV** Adhesive Application:

Manufacturer: ITW Performance Polymers (Wujiang) CO.LTD.

No.4680 North Pangjin Road Address:

**Economic Development Zone** 

Wujiang, Jiangsu, China

0512-63488388 Telephone: Fax: 0512-63091890

Emergency Phone Number: 86-532-83889090

**CHEMTREC:** For emergencies in US and Canada, call

CHEMTREC: 1-800-424-9300

#### Health 3\* **Flammability** 2 Reactivity 2 X **Personal Protection**

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Constituent	CAS No.	Weight	ACGIH	OSHA	Other
		Percent	TLV	PEL	Limits
Trimethylbenzoyldiphenylphosphine oxide	75980-60-8	1-5%	n/e	n/e	n/e
Acrylate Monomer	2680-03-7	10-30%	n/e	n/e	n/e
n-Decyl Acrylate	2156-96-9	10-30%	n/e	n/e	n/e
n-Octyl Acrylate	2499-59-4	10-30%	n/e	n/e	n/e
Isobornyl Acrylate	5888-33-5	10-30%	n/e	n/e	n/e
2-Hydroxy-2-methyl-1-phenyl-1-propanone	7473-98-5	1-5%	n/e	n/e	n/e
Trade secret.	N/A	30 <b>N6/A</b> %	n/e	n/e	n/e

<sup>&</sup>quot;TLV" means the Threshold Limit Value exposure (eight-hour, time-weighted average, unless otherwise noted) established by the American Conference of Governmental Industrial Hygienists. "STEL" indicates a short-term exposure limit. "PEL" indicates the OSHA Permissible Exposure Limit. "n/e" indicates that no exposure limit has been established. An asterisk (\*) indicates a substance whose identity is a trade secret of our supplier and unknown to us.

## 3. HAZARDS IDENTIFICATION

**Emergency Overview:** WARNING! Potential Sensitizer Irritant.



**Route of Exposure:** Eyes. Skin. Inhalation. Ingestion.

**Potential Health Effects:** 

**Eye:** Can cause moderate irritation, burning sensation, tearing,

redness, and swelling. Overexposure may cause lacrimation,

conjunctivitis, corneal damage and permanent injury.

**Skin:** Can cause skin irritation; itching, redness, rashes, hives,

burning, and swelling.

**Inhalation:** Respiratory tract irritant. High concentration may cause

dizziness, headache, and anesthetic effects.

**Ingestion:** Causes irritation, a burning sensation of the mouth, throat and

gastrointestinal tract and abdominal pain.

Chronic Health Effects: Prolonged skin contact may lead to burning associated with

severe reddening, swelling, and possible tissue destruction.

Signs/Symptoms: Overexposure can cause headaches, dizziness, nausea, and

vomiting.

Target Organs: Eyes. Skin. Respiratory system. Digestive system.

**Aggravation of Pre-Existing** 

**Conditions:** 

Inhalation:

Individuals with pre-existing skin disorders, asthma, allergies

or known sensitization may be more susceptible to the effects

of this product.

## 4. FIRST AID MEASURES

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 to

20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical

attention.

**Skin Contact:** Immediately wash skin with plenty of soap and water for 15 to

20 minutes, while removing contaminated clothing and

shoes. Get medical attention if irritation develops or persists. If inhaled, remove to fresh air. If not breathing, give artificial

respiration or give oxygen by trained personnel. Seek

immediate medical attention.

**Ingestion:** If swallowed, do NOT induce vomiting. Call a physician or

poison control center immediately. Never give anything by

mouth to an unconscious person.

#### 5. FIREFIGHTING MEASURES

Flash Point: 171°F (77°C)
Flash Point Method: Setaflash



Auto Ignition Temperature: Not determined.

Lower Flammable/Explosive Limit: Not determined.

Upper Flammable/Explosive Limit: Not determined.

Fire Fighting Instructions: Evacuate area of unprotected personnel. Use cold water spray

to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If

possible, contain fire run-off water.

**Extinguishing Media:** Use carbon dioxide (CO<sub>2</sub>) or dry chemical when fighting fires

involving this material.

Unsuitable Media: Water may cause frothing.

**Protective Equipment:** As in any fire, wear Self-Contained Breathing Apparatus

(SCBA), MSHA/NIOSH (approved or equivalent) and full

protective gear.

**Unusual Fire Hazards:** Sealed containers at elevated temperatures may rupture

explosively and spread fire due to polymerization.

## **6. ACCIDENTAL RELEASE MEASURES**

Personnel Precautions: Evacuate area and keep unnecessary and unprotected

personnel from entering the spill area.

**Environmental Precautions:** Avoid runoff into storm sewers, ditches, and waterways.

**Spill Cleanup Measures:** Absorb spill with inert material (e.g., dry sand or earth), then

place in a chemical waste container. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue. Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper personal

protective equipment as listed in section 8.

Other Precautions: Pump or shovel to storage/salvage vessels. Add inhibitor to

prevent polymerization.

#### 7. HANDLING AND STORAGE

**Handling:** Use with adequate ventilation. Avoid breathing vapor, aerosol

or mist.

Storage: Store in a cool, dry, well-ventilated area away from sources of

heat and incompatible materials. Keep container tightly closed

when not in use.

**Special Handling Procedures:** Provide appropriate ventilation/respiratory protection against

decomposition products (see Section 10) during

welding/flame cutting operations and to protect against dust

during sanding/grinding of cured product.



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**Hygiene Practices:** Wash thoroughly after handling.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls: Use appropriate engineering control such as process

enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not

effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal

protective equipment.

**Eye/Face Protection:** Wear appropriate protective glasses or splash goggles as

described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

**Skin Protection Description:** Wear appropriate protective gloves and other protective

apparel to prevent skin contact. Consult manufacturer's data

for permeability data.

**Respiratory Protection:** A NIOSH approved air-purifying respirator with an organic

vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known or any other circumstances where air purifying respirators may not provide adequate

protection.

Other Protective: Facilities storing or utilizing this material should be equipped

with an eyewash and a deluge shower safety station.

#### **EXPOSURE GUIDELINES**

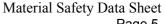
Notes: Only established PEL and TLV values for the ingredients are liste

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Appearance: Viscous. Liquid...

Color: Clear Amber.

Odor: Distinctive.





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Boiling Point: Not determined.

Melting Point: Not determined.

Specific Gravity: 1.02

**Solubility:** Partially Insoluble

**Vapor Density:** > 1 (air = 1)

Vapor Pressure: 0.01 mmHg @ 68° F

Percent Volatile: <0.5

**Evaporation Rate:** <1 (butyl acetate = 1)

**pH:** Not determined.

Molecular Formula: Mixture

Molecular Weight: Mixture

Flash Point: 171°F (77°C)

Flash Point Method: Setaflash

Auto Ignition Temperature: Not determined.

**VOC Content:** Not determined.

Percent Solids by Weight Not determined.

#### 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal temperatures and pressures.

**Hazardous Polymerization:** Polymerization may occur under certain conditions.

**Conditions to Avoid:** Extreme heat, sparks, and open flame. Incompatible

materials, oxidizers and oxidizing conditions. Temperatures

above 100 °F. Oxygen-free atmospheres or inert gas

blanketing. Freezing conditions. Material can soften paint and

rubber.

**Incompatible Materials:** Oxidizing agents (e.g. peroxides, nitrates), reducing agents,

acids, bases, azo-compounds, catalytic metals (e.g. copper,

iron), and halogens. Free radical initiators. Oxygen

scavengers.

## 11. TOXICOLOGICAL INFORMATION

## <u>Trimethylbenzoyldiphenylphosphine oxide:</u>



RTECS Number: SZ0395000

**Acrylate:** 

RTECS Number: UD3940000

Eye - Rabbit Standard Draize test.: 100 uL [mild]

**Skin:** Administration onto the skin - Rabbit LD50 : 540 uL/kg

[Behavioral - Somnolence (general depressed activity)

Behavioral - Tremor Liver - Other changes]

Administration onto the skin - Rat TDLo : 6825 mg/kg/13W-I [Behavioral - Food intake (animal) Kidney, Ureter, Bladder - Other changes in urine composition Blood - Changes in

platelet count]

Inhalation: Inhalation - Rat LC50 : >776 ppm/1H [Lungs, Thorax, or

Respiration - Fibrosis, focal (pneumoconiosis) Lungs, Thorax,

or Respiration - Other changes]

Ingestion: Oral - Rat LD50 : 316 mg/kg [Sense Organs and Special

Senses (Eye) - Ptosis Behavioral - Somnolence (general

depressed activity) Behavioral - Ataxia]

Oral - Mouse LD50 : 460 mg/kg [Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Muscle

weakness Behavioral - Irritability]

n-Decyl Acrylate:

RTECS Number: AS7400000

**Skin:** Administration onto the skin - Rabbit LD50 : 6300 uL/kg

[Details of toxic effects not reported other than lethal dose

value]

Administration onto the skin - Rabbit Open irritation test: 10

mg/24H [severe]

Ingestion: Oral - Rat LD50 : 6460 mg/kg [Details of toxic effects not

reported other than lethal dose value]

<u>Isobornyl Acrylate:</u>

RTECS Number: UD3940000

Eye - Rabbit Standard Draize test.: 100 uL [mild]

**Skin:** Administration onto the skin - Rabbit LD50 : >5 gm/kg [Details

of toxic effects not reported other than lethal dose value]
Administration onto the skin - Rabbit Standard Draize test.:

500 uL [Moderate]



Ingestion: Oral - Rat LD50 : 4890 mg/kg [Behavioral - Tremor Lungs,

Thorax, or Respiration - Dyspnea Skin and Appendages -

Hair]

## 2-Hydroxy-2-methyl-1-phenyl-1-propanone:

RTECS Number: UC2977245

Skin: Administration onto the skin - Rat LD50 : 6929 mg/kg [Details

of toxic effects not reported other than lethal dose value]

Ingestion: Oral - Rat LD50 : 1694 mg/kg [Behavioral - Somnolence

(general depressed activity) Behavioral - Tremor Liver - Other

changes]

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No ecotoxicity data was found for the product.

**Environmental Fate:** No environmental information found for this product.

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part

261.3 for the classifications of hazardous waste prior to

disposal. Furthermore, consult with your state and local waste

requirements or guidelines, if applicable, to ensure

compliance. Arrange disposal in accordance to the EPA

and/or state and local guidelines.

RCRA Number: Not determined.

## 14. TRANSPORT INFORMATION

**DOT Shipping Name:** Non regulated.

**DOT UN Number:** Not applicable.

**DOT Hazard Class:** Not applicable.

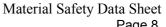
**DOT Packing Group:** Not applicable.

IATA Shipping Name: Non regulated.

#### 15. REGULATORY INFORMATION

## <u>Trimethylbenzoyldiphenylphosphine oxide:</u>

TSCA Inventory Status: Listed





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Canada DSL: Listed

**Acrylate monomer:** 

**TSCA Inventory Status:** Listed

Canada DSL: Listed

n-Decyl Acrylate:

**TSCA Inventory Status:** Listed

**Listed: Massachusetts Oil and Hazardous List** Massachusetts:

Pennsylvania: Listed

Listed Canada NDSL:

n-Octyl Acrylate:

**TSCA Inventory Status:** Listed

Pennsylvania: Listed

Canada NDSL: Listed

**Isobornyl Acrylate:** 

**TSCA Inventory Status:** Listed

Canada DSL: Listed

2-Hydroxy-2-methyl-1-phenyl-1-propanone:

**TSCA Inventory Status:** Listed

Canada DSL: Listed

Canadian Regulations. WHMIS Hazard Class(es): D2B

### 16. OTHER INFORMATION

**HMIS Health Hazard:** 3\*

**HMIS Fire Hazard:** 2

**HMIS Reactivity:** 2

**HMIS Personal Protection:** Χ

**MSDS Creation Date:** December 23, 2010

**MSDS Revision Date:** March 11, 2013



MSDS Author: ITW PPFChina

**Disclaimer:** This Health and Safety Information is correct to the best of our

knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a

controlled environment.