

## IDENTIFICATION

**Product Name** : UltraSOLV<sup>®</sup> Swab

**Company** : Foamtec International Co., Ltd.

Branch 3 : 111/1 Moo 2, Phahonyothin RD. KM. 56 Tambol Lamsai  
Amphur Wangnoi, Pranakornsriyayuthaya 13170  
Tel +66 35 740 717 Fax +66 35 740 744

Branch 6 : 259/1 Moo 3 Laem Chabang Industrial Estates  
Thungsukhla, Sriracha, Chonburi 20230  
Tel.: +66 33 678 877 Fax.: +66 33 678 876

**Material 1** : **Polypropylene Homopolymer Pellets**

## 1.1 HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE** : Translucent to white solid pellets.

**IMMEDIATE CONCERNS** : Spilled material may present a slipping hazard. This product as shipped is not classified as a combustible dust; however, a combustible concentration of dust may occur if fines are suspended in air. Avoid contact with strong oxidizing agents. When working with the material at temperatures above the melting point, the material will begin to decompose producing fumes that can contain carbon dioxide, carbon monoxide, ketones, acrolein, aldehydes and other unidentified organic compounds that come from the breakdown of the material. Adequate room and extruder ventilation should be provided to minimize exposures.

### POTENTIAL HEALTH EFFECTS

**EYES** : Process vapors may irritate eyes.

**SKIN** : Exposure to molten may resin cause thermal burns.

**INGESTION** : Not applicable.

**INHALATION** : Process vapors may cause respiratory tract irritation.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES** : Irritation or redness.

**SKIN** : Not applicable.

**INGESTION** : Not applicable.

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<b>INHALATION</b>	: Irritation of the nose, throat and respiratory tract.
<b>ACUTE TOXICITY</b>	: Process vapors may cause eye and respiratory tract irritation.
<b>CHRONIC</b>	: None known.
<b>CARCINOGENICITY</b>	: None known.
<b>MUTAGENICITY</b>	: None known.
<b>REPRODUCTIVE TOXICITY</b>	
<b>REPRODUCTIVE EFFECTS</b>	: None known.
<b>TERATOGENIC EFFECTS</b>	: None known.
<b>MEDICAL CONDITIONS AGGRAVATED</b>	: None known.
<b>ROUTES OF ENTRY</b>	: Eye, Inhalation.
<b>TARGET ORGAN STATEMENT</b>	: None known.
<b>CANCER STATEMENT</b>	: This product is not considered to be a carcinogen by OSHA, IRAC or NTP.
<b>IRRITANCY</b>	: Exposure to process vapors may cause eye and respiratory tract irritation.
<b>SENSITIZATION</b>	: None known.
<b>WARNING CAUTION LABELS</b>	: Burn risk - Avoid contact with molten resin. Explosion risk - Prevent accumulation of dust particles. Slipping risk - Keep walking surfaces free of spilled material. Vapor risk - Provide ventilation to avoid exposure to process vapors.
<b>COMMENTS HEALTH</b>	: None.
<b>HEALTH HAZARDS</b>	: Process vapors may cause eye and respiratory tract irritation.
<b>PHYSICAL HAZARDS</b>	: Spilled material may present a slipping hazard. Exposure to molten resin may cause thermal burns.

## 1.2 COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt. %</u>	<u>CAS #</u>
Polypropylene Homopolymer	>95	9003-07-0
Stabilizers (trade secret)	<5	

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## 1.3 FIRST AID MEASURES

<b>EYES</b>	: Flush eyes with water for 15 minutes. Get medical attention.
<b>SKIN</b>	: Molten resin - If molten material comes in contact with the skin, cool under ice water or a running stream of water. DO NOT attempt to remove the material from the skin. Removal could result in severe damage. Get medical attention.
<b>INGESTION</b>	: Not applicable.
<b>INHALATION</b>	: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>ANTIDOTES</b>	: Not applicable.
<b>NOTES TO PHYSICIAN</b>	: None.
<b>ADDITIONAL INFORMATION</b>	: None.

## 1.4 FIRE - FIGHTING MEASURES

<b>AUTOIGNITION TEMPERATURE</b>	: Not determined.
<b>EXTINGUISHING MEDIA</b>	: Use foam, carbon dioxide, or water spray when fighting fires involving this material.
<b>HAZARDOUS COMBUSTION PRODUCTS</b>	: Carbon dioxide, carbon monoxide, ketones, acrolein, aldehydes, unidentified organic compounds.
<b>EXPLOSION HAZARDS</b>	: Product as shipped is not a combustible dust. However, a combustible concentration of dust may occur when fines are suspended in air.
<b>FIRE FIGHTING PROCEDURES</b>	: Standard procedure for Class A fires.
<b>FIRE FIGHTING EQUIPMENT</b>	: As in any fire, water self-contained pressure demand breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.
<b>SENSITIVE TO STATIC DISCHARGE</b>	: Static discharge could be an ignition source for a combustible concentration of dust.
<b>SENSITIVITY TO IMPACT</b>	: Not applicable.

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**Material 1 : Polypropylene Homopolymer Pellets**

## 1.5 ACCIDENTAL RELEASE MEASURES

<b>SMALL SPILL</b>	: Sweep up material and place in a disposal container.
<b>LARGE SPILL</b>	: Vacuum or sweep up material and place in a disposal container.
<b>ENVIRONMENTAL PRECAUTIONS</b>	
<b>WATER SPILL</b>	: Keep pellets out from waterways.
<b>LAND SPILL</b>	: Not yet determined.
<b>GENERAL PROCEDURES</b>	: Vacuum or sweep up material and place in a disposal container.
<b>SPECIAL PROTECTIVE EQUIPMENT</b>	: None.

## 1.6 HANDLING AND STORAGE

<b>GENERAL PROCEDURES</b>	: Keep away from heat, sparks and flame.
<b>HANDLING</b>	: Ground and bond containers when transferring material.
<b>STORAGE</b>	: This product may react with strong oxidizing agents and should not be stored near such materials. Store boxed and bags of material in areas protected with automatic sprinklers.
<b>STORAGE TEMPERATURE</b>	: 60 °C (140 °F) maximum.
<b>STORAGE TEMPERATURE NOTES</b>	: Stored in a cool place below 60 °C, 140 °F.
<b>ELECTROSTATIC ACCUMULATION HAZARD</b>	: Material may accumulate static charges during transfers. Ground and bond containers when transferring material.

## 1.7 EXPLOSURE CONTROLS AND PERSONAL PROTECTION

<b>ENGINEERING CONTROLS</b>	: Provide adequate room ventilation. Provide adequate ventilation at the extruder to minimize exposure to process vapors. Eliminate ignition sources during repair and maintenance operations.
<b>PERSONAL PROTECTIVE EQUIPMENT</b>	
<b>EYES AND FACE</b>	: Wear safety glasses with side shields.
<b>SKIN</b>	: When handling or processing resins at elevated temperatures or in a molten state, wear protective clothing over the skin to prevent contact.

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- RESPIRATORY** : A respiratory protection program that meets OSHA 1910.134, ANSI Z88.2 and/or CSA Z94.4-93 requirements must be followed whenever workplace conditions warrant use of a respirator.
- PROTECTIVE CLOTHING** : When handling or processing resins at elevated temperatures or in a molten state, wear protective clothing over the skin to prevent contract.
- OTHER USE PRECAUTIONS** : Eyewash fountains and safety showers should be easily accessible.

## 1.8 PHYSICAL AND CHEMICAL PROPERTIES

- PHYSICAL STATE** : Solid.
- ODOR** : Slightly waxy odor.
- APPEARANCE** : Pellet.
- COLOR** : Translucent to white.
- MELTING POINT** : >120°C (248°F)
- SPECIFIC GRAVITY** : 0.88 TO 0.92
- COMMENTS**
- PERCENT VOLATILE** : < 0.4%
- WATER SOLUBILITY** : Negligible.

## 1.9 STABILITY AND REACTIVITY

- STABLE** : Yes.
- HAZARDOUS POLYMERIZATION** : No.
- CONDITIONS TO AVOID** : Keep away from heat, sparks and flame.
- POLYMERIZATION** : Product will no undergo polymerization.
- HAZARDOUS DECOMPOSITION PRODUCTS** : At elevated temperature the material will begin to decompose, producing fumes that can contain carbon dioxide, carbon monoxide, ketones, acrolein, aldehydes, unidentified organic compounds.
- INCOMPATIBLE MATERIALS** : Oxidizing materials.

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# Safety Data Sheet

Material 1 : Polypropylene Homopolymer Pellets

## 1.10 TOXICOLOGICAL INFORMATION

NOT APPLICABLE

## 1.11 ECOLOGICAL INFORMATION

NOT APPLICABLE

## 1.12 DISPOSAL CONSIDERATIONS

NOT APPLICABLE

## 1.13 TRANSPORT INFORMATION

NOT APPLICABLE

## 1.14 REGULATORY INFORMATION

NOT APPLICABLE

## 1.15 OTHER INFORMATION

NOT APPLICABLE

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**Material 2 :** Irgastat Conductive Polymer

## 2.1 HAZARDS IDENTIFICATION

NOT APPLICABLE

## 2.2 COMPOSITION / INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard

CAS Number	Product Name	Content	Symbol(s)	R-Phraso(s)
007791-07-3	Sodium-perchlorate	< 5%	O - Xn	R09-R22

## 2.3 FIRST AID MEASURES

<b>SKIN CONTACT</b>	: Wash off with soap and plenty of water. Do not use organic solvents.
<b>EYE CONTACT</b>	: Rinse immediately with plenty of water for at least 15 minutes. In case of eye irritation, seek medical attention.
<b>INHALATION</b>	: Move to fresh air. In case of prolonged exposure, seek medical attention. In case of indisposition, seek medical attention. In case of irritation of respiratory system of mucous membranes, seek medical attention.
<b>INGESTION</b>	: Immediately give plenty (> 500 ml) of water (if possible charcoal slurry). In case of spontaneous vomiting be sure that Vomitus can freely drain due to danger of suffocation. Give water repeatedly. Artificial induction of vomiting should be restricted to first aid staff. Give nothing by mouth in cases of unconsciousness or convulsion. Seek medical advice.

## 2.4 FIRE - FIGHTING MEASURES

<b>SUITABLE EXTINGUISHING MEDIA</b>	: Water spray, Carbon dioxide (CO <sub>2</sub> ), Foam, Dry powder.
<b>EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS</b>	: High volume water jet.
<b>EXPOSURE HAZARDS</b>	Contaminated water from fire hoses or sprinklers, etc., must be prevented from draining into watercourses, sewers, or the ground water. Sufficient measures must be taken to retain water used of extinguishing. Contaminated water and soil must be disposed of in conformity with local regulations.

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**Material 2 :** Irgastat Conductive Polymer

## SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

: Wear full protective clothing. Wear self-contained breathing apparatus.

## COMBUSTION PRODUCTS

: Oxides of carbon; Oxides of nitrogen (NOX); Oxides of phosphorus; Toxic gases/vapours.

## 2.5 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

: Do not breathe vapours/dust. Remove all sources of ignition. Avoid contact with skin, eyes and clothing.

### ENVIRONMENTAL PRECAUTIONS

: Do not flush into surface water, sanitary sewer or ground water system.

### METHODS FOR CLEANING UP

: Use mechanical handling equipment. Collect the spilled product into suitable containers, which must be tightly sealed and properly labelled. Avoid dust formation.

## 2.6 HANDLING AND STORAGE

### HANDLING

: Avoid dust formation and ignition sources. Ensure good local exhaust ventilation. Do not eat, drink or smoke at the workplace.

### STORAGE

: Keep away from food and drink. Store in the original container securely closed.

## 2.7 EXPLOSURE CONTROLS AND PERSONAL PROTECTION

### EXPOSURE LIMIT(S)

: CIEL-TWA Ciba internal exposure limit (8 hour time weighted average)  
no tested.

### TECHNICAL MEASURES / PRECAUTIONS

: No special precautions required.

### RESPIRATORY PROTECTION

: Effective dust mask.

### HAND PROTECTION

: Protective gloves.

### EYE PROTECTION

: Suitable goggles or face protection.

### SKIN AND BODY PROTECTION

: Working clothes, Closed footwear.

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**Material 2 : Irgastat Conductive Polymer**

## 2.8 PHYSICAL AND CHEMICAL PROPERTIES

<b>FORM</b>	: Pastilles.
<b>COLOUR</b>	: White.
<b>ODOUR</b>	: Odourless.
<b>MELTING/FREEZING TEMPERATURE</b>	: 170 - 180 °C.
<b>BOILING POINT/RANGE</b>	: Not applicable.
<b>OXIDISING PROPERTIES</b>	: Not oxidizing.

## 2.9 STABILITY AND REACTIVITY

<b>DECOMPOSITION TEMPERATURE</b>	: Not tested.
<b>CONDITIONS TO AVOID</b>	: Static discharges.
<b>MATERIALS TO AVOID</b>	: Strong acids, strong bases and strong oxidising agents.
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	: Oxides of carbon, Oxides of phosphorus, Oxides of nitrogen (Nox), Hydrogen chloride, Toxic gases/vapours.
<b>FURTHER INFORMATION</b>	: In contact with oxidisable material sodium perchlorate may explode when ignited.

## 2.10 TOXICOLOGICAL INFORMATION

<b>ACUTE ORAL TOXICITY</b>	LD50 > 2000 mg/kg	EEC 88/379
Rat		Conventional Method
<b>ACUTE DERMAL</b>	Not irritant	EEC 88/379
<b>IRRITATION/CORROSION</b>		Conventional Method
Rabbit		
<b>ACUTE EYE IRRITATION/CORROSION</b>	Not irritant	EEC 88/379
Rabbit		Conventional Method
<b>ACUTE SKIN SENSITISATION</b>	Not sensitising	EEC 88/379
Guinea pig		Conventional Method

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## 2.11 ECOLOGICAL INFORMATION

NOT APPLICABLE

## 2.12 DISPOSAL CONSIDERATIONS

NOT APPLICABLE

## 2.13 TRANSPORT INFORMATION

NOT APPLICABLE

## 2.14 REGULATORY INFORMATION

NOT APPLICABLE

## 2.15 OTHER INFORMATION

NOT APPLICABLE

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# Safety Data Sheet

**Material 3 : Hydrophilic Polyurethane**

## 3.1 HAZARD IDENTIFICATION

**FLASH POINT** : Decomposition products greater than 500 °F

**EXTINGUISHING MEDIA** : Dry chemical, water, carbon, dioxide.

**SPECIAL FIREFIGHTING PROCEDURES** : Wear self contained breathing apparatus in enclosed areas.

**UNUSUAL FIRE AND EXPLOSION HAZARDS** : Foam can emit combustible toxic gases making flashback possible. Foam will burn with high heat and evolution of black smoke.

## 3.2 COMPOSITION / INFORMATION ON INGREDIENTS

**BOILING POINT** : Not applicable.

**SPECIFIC GRAVITY** : 1 to 40 pounds per cubic foot.

**SOLUBILITY IN WATER** : Insoluble.

**MELTING POINT** : Decomposes above 350 °F

**APPEARANCE AND ODOR** : Uniform cellular structure, generally odorless, except fragrance foams.

## 3.3 FIRST AID MEASURES

NOT APPLICABLE

## 3.4 FIRE - FIGHTING MEASURES

NOT APPLICABLE

## 3.5 ACCIDENTAL RELEASE MEASURES

NOT APPLICABLE

## 3.6 HANDLING AND STORAGE

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

: Sweep up - no special steps needed. Fragrance enhanced foams respiratory protection recommended.

**WASTE DISPOSAL METHOD** : Dispose in compliance with all applicable federal, state and local regulations and laws.

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

: Large quantities should be stored in well ventilated and sprinklered areas away from heat or open flame.

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**Material 3 : Hydrophilic Polyurethane**

## 3.7 EXPOSURE CONTROLS AND PERSONAL PROTECTION

- ROUTES OF ENTRY** : Dust from cutting.
- INHALATION** : Fragrance enhanced materials will permeate air follow their recommendations.  
 All fragrance enhanced materials should be kept wrapped in atmospheric barrier materials such as cryovac.
- HEALTH HAZARDS** : Dust from cutting can be nuisance dust and a possible respiratory irritant.  
 Temperatures over 350 °F may generate toxic or respiratory irritants.

## 3.8 PHYSICAL AND CHEMICAL PROPERTIES

- REACTIVITY DATA** : Stable.
- CONDITIONS TO AVOID** : Exposure to large quantities of water, open flame, high temperature, strong oxidizers.
- INCOMPATIBILITY** : Strong oxidizing acids - will degrade.
- HAZARDOUS DECOMPOSITION OR BYPRODUCTS** : Carbon monoxide, oxides of nitrogen, hydrogen cyanide acrylonitrile.

## 3.9 STABILITY AND REACTIVITY

NOT APPLICABLE

## 3.10 TOXICOLOGICAL INFORMATION

NOT APPLICABLE

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### 3.11 ECOLOGICAL INFORMATION

NOT APPLICABLE

### 3.12 DISPOSAL CONSIDERATIONS

NOT APPLICABLE

### 3.13 TRANSPORT INFORMATION

NOT APPLICABLE

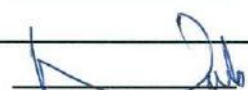
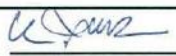
### 3.14 REGULATORY INFORMATION

- RESPIRATORY PROTECTION** : Fumes - organic vapor cartridges.  
Dust - use dust mask.
- VENTILATION** : Local exhaust needed for not wire cutting, flame lamination.
- EYE PROTECTION** : As appropriate around moving machine parts.
- OTHER PROTECTIVE EQUIPMENT** : Dust collection equipment during buffing.

### 3.15 OTHER INFORMATION

NOT APPLICABLE

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Issued By : <u>Wanchai B.</u> ( Engineer )	Checked By :  ( Engineer Manager )	Approved By :  ( Sr.Mgr. / GM. )