

クロバール株式会社  
御様

平成 24 年 11 月 5 日

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(送信枚数：本紙を含めて 7 枚)

平乗は格別のお引き立てを賜り、誠にありがとうございます。  
下記の書類を FAX にて送付致しますので、ご査収の程宜しくお願い申し上げます。

記

フタノール TPO コンク MSDS(案文)

浸透液

以上

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product Name            **FUTANOL TPO conc.**  
Manufacturer           **OSAKA CHEMICAL IND.CO., LTD.**  
Address                 **6-2-10, IZUO TAISHO-KU, OSAKA, JAPAN**  
Telephone number      **06-6552-8651**  
Fax number              **06-6552-3653**

2. HAZARDS IDENTIFICATION

GHS classification

Health hazard statements

Acute toxicity, oral	:	Class 5	Methanol		
Serious eye damage/eye irritation	:	Class 2A-2B	Methanol		
Reproductive toxicity	:	Class 1B	Methanol		
Specific target organ toxicity single exposure	:	Class 1	Methanol (central nervous system, optic organ, systemic toxicity) Class 3	Methanol (anesthetic action) Class 3	Methanol (respiratory irritation)
Specific target organ toxicity, repeated exposure	:	Class 1	Methanol (central nervous system, optic organ)		

GHS label elements

Symbol:



Hazard statements:        **Danger**

Precautionary Statements  
Prevention

**Obtain special instructions before use.**

Avoid eating or smoking during use.  
Avoid exposure by using personal protective equipments and ventilation.  
Take protective equipment, eye protection.  
Wash thoroughly after handling.  
Store in well ventilated cool and dark space, avoid direct sun light.  
Close container tightly after use.

#### Response

**IF ON SKIN:** Wash with soap and water.  
**IF IN EYES:** Rinse cautiously with water for several minutes.  
Remove contact lenses if present and easy to do,  
Continue rinsing.  
Wash contaminated wear for reuse.  
When feel irritation of eye after washing, seek medical advice.  
When feel unwellness after handling, seek medical advice.  
When feel skin irritation continually, seek medical advice.

#### Storage

Store in a closed container.  
Store in well ventilated cool and dark space

#### Disposal

Dispose of contents/container to in accordance with local/regional/  
national/international regulations.

#### Environmental impact

No-data

#### Physical and chemical dangerousness

This product becomes flammable after water evaporation, watch out  
for fire.

#### Classification

Not classified

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture	:	Mixture
Chemical name	:	Surfactant
Composition	:	Alkylsulfosuccinate Methanol Water

CAS No. : non-disclosure  
METI No. : non-disclosure

#### 4. FIRST-AID MEASURES

**Inhalation:** Move to area in fresh air. Keep at rest and warm. Seek medical advice/attention if you feel unwell.

**Skin contact:** Wash with plenty of soap and water.  
If skin irritation or rash occurs, occurs, seek medical advice/attention.

**Eye contact:** Rinse cautiously with water for more than 15 minutes and seek medical advice.

**Ingestion:** Clean the mouth with water and seek medical advice immediately.  
If unconscious, don't give anything by the mouth.

#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Water spray, powder, foam or carbon dioxide extinguisher

**Specific hazards arising from the chemical:**

Avoid smoke inhalation during fire extinction  
Toxic substances are included in flaming gas.

**Special protective equipment and precautions for fire-fighters:**

Fire fighters should wear proper protective equipments.  
Cut off the fire source.  
Operation should be done from leeward.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Wear proper protective equipment.  
Lubber glove, protective goggle and ware.

**Environmental precautions:**

Avoid leakage into river and swear.

**Methods and materials for containment and cleaning up:**

If big amount leakage, contain the leakage with dirt or sand  
and recover into appropriate container.  
If small amount leakage, recover with appropriate absorber (sand, waste cloth or sawdust etc.)  
Wash away with water after recovering.

#### 7. HANDLING AND STORAGE

**Handling  
Technical measures:**

Install eye washer and whole body shower  
equipment  
near by handling place.  
Implement appropriate air ventilation.

**Precaution:**

Avoid skin and eye contact.

**Safe handling:**

Implement air ventilation.  
Take safety goggle, safety glove and safety wear  
during handling.  
Wash your face and hands well after handling.

**Storage**

**Appropriate storage condition:**  
Avoid direct sun light and store in well  
ventilated place  
with sealed container.

**Safety material for container:**

Conform original container's material of the  
product.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters:**

(occupational exposure limit JSOH(2005)  
values )

200ppm  
250mg/m<sup>3</sup> (methanol)  
ACGIH(2005)TLV-TWA 260ppm (methanol)  
TLV-STEL 250ppm (methanol)

**Individual protection measures:**

Respiratory protection: Chemical cartridge respirator for organic  
solvent  
Hand protection: Impervious safety glove  
Eye protection: Safety goggles with side plate.  
Skin protection: Long-sleeved working wear

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:**

Clear liquid

**Odor:**

Slightly specific odor

**pH:**

6-8(1% solution.)

**Melting point**

-5 deg. C

**Boiling point**

100 deg. C

**Flash point:**

.

**Explosion characteristics:**

explosion limit: No data

**Vapor pressure:**

No data

**Specific gravity:**

.

**Servility:**

Soluble in water

**Others:**

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## 10. STABILITY AND REACTIVITY

Reactivity: Stable at usual condition (room temperature/indoor)  
Chemical stability: Stable usual condition (room temperature/indoor)  
Conditions to avoid: No data  
Incompatible materials: No data  
Hazardous decomposition products: No data

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD50 (Oral, Rats) 6200mg/kg  
Skin corrosion/irritation: No data  
Serious eye damage/eye irritation: Strong irritant (methanol)  
Respiratory sensitization: No data  
Skin sensitization: No data  
Germ cell mutagenicity: No data  
Carcinogenicity: No data  
Reproductive toxicity: Possibility adverse impact on reproductive competence and fetus (methanol)  
Specific target organ toxicity (single exposure)  
Disorder of central nerve, optic organ, systemic toxicity (methanol)  
Drowsiness and dizziness (methanol)  
Anesthetic property (methanol)  
Respiratory irritation (methanol)  
Specific target organ toxicity (repeated exposure)  
Disorder of central nerve, optic organ (methanol)  
Aspiration toxicity: No data available

## 12. ECOLOGICAL INFORMATION

Degradability: No data  
Toxicity to fish: No data  
Bioaccumulation potential: No data

## 13. DISPOSAL CONSIDERATIONS

Steps to be taken in case of spill: Absorb spills with suitable absorbent like a piece of material is released or waste clothes.  
spilled

Waste disposal method

: Scrap materials may be disposed by licensed contractor or burn in an approved incinerator. Do not dump into sewer, on the ground or into any body of water. Follow national and local regulations.

#### 14. TRANSPORT INFORMATION

UN number : Not applicable.

Transport hazard class (es) : Not applicable.

Environmental hazards : Not applicable.

#### 15. REGULATORY INFORMATION

Chemical Substances Control Law:

Designated Chemical Substance: Not applicable

Specific Chemical Substance: Not applicable

Industrial Safety and Health Act

Object Substance: <=5.0%(86 methanol)

PRTR

Class I Designate Chemical Substance: Not applicable

Class II Designate Chemical Substance: Not applicable

Fire Service Act

Dangerous Substance: Not applicable

Poisonous and Deleterious Substances Control Act

Poisonous Substance, Deleterious Substance: Not applicable

#### 16. OTHER INFORMATION

References

: This information herein is given in good faith, but no warranty, express or implied, is made. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used in caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist.