

# Material Safety Data Sheet

Version 4.0  
Revision Date Sep. 8th, 2015

MSDS No. 20150908003  
Print Date Sep. 8th, 2015

## SECTION 1– PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Surfadol 336 Surfactant  
**Chemical Family:** Acetylenic Diols  
**Product Use:** Wetting and dispersing agent, pigment grind aid  
**Manufacturer:** Chongqing ACME Tech. Co., Ltd.  
2501 Huachuang Bldg. 10 Red Yellow Road, Jiangbei  
Chongqing 400020 China  
Tel: +86-23-89118971  
**Emergency Telephone:** +86-23-89118972

## SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                         | wt. % | CAS No.   | CHIP Classification |
|---------------------------------------|-------|-----------|---------------------|
| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol | 18    | 126-86-3  | Xi: R36, R52/53     |
| Ethylene Glycol                       | 22    | 107-21-1  | Xn: R22             |
| OP-10                                 | 60    | 9002-93-1 | -                   |

## SECTION 3 – HAZARDS IDENTIFICATION

### Emergency Overview

Harmful by inhalation, in contact with skin and if swallowed.

**HMIS Health** 2  
**Flammability** 1  
**Reactivity** 0  
**Physical Form** Mobile liquid (at processing temperature)  
**Color** Straw yellow (at processing temperature)  
**Odor** Menthol  
**Hazards** Harmful by inhalation, in contact with skin and if swallowed .

### Potential Health Effects

**Eye:** May cause eye irritation.  
**Skin:** Harmful if absorbed through the skin.  
**Ingestion:** Harmful if swallowed.  
**Inhalation:** Harmful if inhaled.  
**Chronic:** Prolonged or repeated exposure may cause adverse reproductive effects.

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## SECTION 4 – FIRST AID MEASURES

- Eyes:** Flush eyes with plenty of water for at least 15 minutes, Get medical aid.
- Skin:** Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.
- Ingestion:** Get medical aid if swallowed. Wash mouth out with water.
- Inhalation:** Remove from exposure to fresh air immediately. Get medical aid.

## SECTION 5 – FIRE AND EXPLOSION HAZARD DATA

### Extinguishing Media

Ignition will give rise to a Class B fire. In case of large fire use water spray, alcohol foam. In case of small fire use (CO<sub>2</sub>), dry chemical, dry silicon or limestone.

### Unusual Fire and Explosion Hazards

May generate toxic or irritating combustion products. Sudden reaction and fire may result if product is mixed with an oxidizing agent. May generate carbon monoxide gas.

Personnel in vicinity and downwind should be evacuated.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

### Containment Techniques (Removal of ignition sources, diking, etc.)

Stop the leak, if possible. Reduce vapor spreading with water spray. Shut off or remove all ignition sources. Construct dike to prevent spreading (includes molten liquids until they freeze).

### Clean-up Procedures

If recovery is not feasible, admix with dry soil, sand or non-reactive absorbent and place in an appropriate chemical waste container. Transfer to containers by suction, preparatory for later disposal. Flush area with water spray. Clean-up personnel must be equipped with self-contained breathing apparatus and butyl rubber protective clothing.

For large spills, recover spilled material with a vacuum truck.

### Other Emergency Advice

Wear protective clothing, boots, gloves, and eye protection.

## SECTION 7 – HANDLING AND STORAGE

### Handling:

Avoid contact with skin or eyes. When handling do not eat, drink or smoke. Avoid using in any spray application without strict conformance to all applicable electrical codes and the OSHA limit for maximum allowable airborne concentrations.

### Storage:

Keep away from oxidizers. Keep in cool, dry and ventilated storage and in closed containers. Do not store in reactive metal containers.

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## SECTION 8 – PERSONAL PROTECTION / EXPOSURE CONTROLS

- Eye:** Splash-proof goggles. In emergency situations, use eye goggles with a full-face shield.
- Hand:** Use neoprene rubber gloves or nitrile rubber gloves.
- Clothing:** Wear long sleeved clothing.
- Work :** Provide readily accessible eye wash stations and safety showers. Wash at the end of each work shift and before eating, smoking or using the toilet. Use appropriate hand and skin lotions to protect the skin.
- Explosion Controls:**  
Explosion proof with general local exhaust with 12– 30 air changes per hour.  
Maintain air concentrations in workspaces with standards outlined in Sections 2 and 3.

## SECTION 9 – PHYSICAL AND CHEMICAL CHARACTERISTICS

|  |                                       |
|--|---------------------------------------|
| <b>Appearance and Odor</b>                   | Straw yellow liquid with menthol odor |
| <b>Flash Point</b>                           | 110 °C                                |
| <b>pH</b>                                    | No Data                               |
| <b>Boiling Point</b>                         | 66-68 °C                              |
| <b>Melting Point</b>                         | No Data                               |
| <b>HLB Value</b>                             | 13                                    |
| <b>Vapor Pressure (mm Hg)</b>                | No Data                               |
| <b>Specific Gravity (H<sub>2</sub>O = 1)</b> | 1.05                                  |

## SECTION 10 – STABILITY AND REACTIVITY

- Stability :** Stable
- Conditions to Avoid :** Not applicable
- Incompatibility :**  
Oxidizing Agents (i.e. perchlorates, nitrates, etc). Reactive metals (i.e. sodium, calcium, zinc, etc.). Sodium or Calcium Hypo chlorite. Dehydrating Agents. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.  
Materials reactive with hydroxyl compounds.
- Hazardous Decomposition products:**  
Carbon Monoxide in a fire. Carbon Dioxide in a fire. Flammable hydrocarbon fragments (e.g. acetylene). Irritating and toxic fumes at elevated temperatures. Aldehydes. Ketones.
- Hazardous Polymerization:**
- Conditions to Avoid:** Not applicable

## SECTION 11 – HEALTH HAZARD DATA

### Acute Health Hazard

No data

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## SECTION 12 – ECOLOGICAL INFORMATION

No Data.

## SECTION 13 – DISPOSAL CONSIDERATIONS

### Waste disposal

Comply with all National and Local Regulations

## SECTION 14 – TRANSPORT INFORMATION

**By Land/Sea :** not regulated

**By Air:** IATA Dangerous Goods Regulation (DGR) 55th Edition 2014: NO: NONE/ NOT REGULATED.  
This product is not classified as dangerous under the relevant EU directives and DOT regulations.

## SECTION 15 – REGULATORY INFORMATION

### China (SEPA)

All components are included on inventory.

### Canada

**DSL** included under the Canadian Environmental Protection Agency (CEPA) regulations

### European Economic Community (EEC)

#### EINECS/ELINCS MASTER INVENTORY

Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.

#### EEC SYMBOL

Irritant (Xi)

#### EEC RISK (R) PHRASES

R37 Irritating to respiratory system; R38 Irritating to skin.  
R41 Risk of serious damage to eyes.

#### EEC SAFETY PHRASES

In case of contact with eyes, rinse immediately with water and seek medical advice (S26).  
Avoid release to the environment. Refer to special instructions/Safety data sheet (S61).

### Other Regulatory Information

**WGK=2**

### US Federal Regulations

#### TOXIC SUBSTANCES CONTROL ACT (TSCA)

All components are included in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

|                            |                       |
|----------------------------|-----------------------|
| <b>Australia</b> (AICS )   | Included on Inventory |
| <b>Japan</b> (Miti)        | Included on Inventory |
| <b>Philippines</b> (Piccs) | Included on Inventory |
| <b>Korea</b> (Ecl)         | Included on Inventory |

## SECTION 16 – OTHER INFORMATION

**The information presented here is believed to be accurate and reliable but presented without any warranty, expressed or implied, on part of Chongqing ACME Tech. Co., Ltd.**