

**1. Identification**

<b>Product Identifier : MOPSO</b>
<b>Synonyms: -</b>
<b>Suggestive Use: -</b>
Names, addresses, and phone numbers of the maker, importer or supplier: TAIWAN HOPAX CHEMICALS MFG. CO., LTD. No.28, Hua Dong Road, Daliao, Kaohsiung 83162, Taiwan TEL.:886-7-7887600
<b>Emergency contact phone numbers/fax numbers : 886-7-7887600 / 886-7-7872892</b>

**2. Hazards Identification**

<b>Chemicals Classification : -</b>
<b>Labeling : -</b>
<b>Symbol : -</b>
<b>Signal word : -</b>
<b>Hazard statement :</b> May cause eye irritation. May cause skin irritation.
<b>Precautionary statements :</b> Do not eat, drink or use tobacco when using this product. Wear respiratory protection, protective gloves and eye/face protection. Use only in a well-ventilated area. Wash thoroughly after handling.
<b>Other hazards : -</b>

**3. Composition / Information on ingredients**
**Pure material :**

<b>Chinese and English name : 3-(N-嗎啉基)-2-羥基丙磺酸 / 3-(N-Morpholino)-2-Hydroxy-1-Propanesulfonic Acid</b>
<b>Synonyms : -</b>
Chemical Abstract Service No.(CAS No.) : 68399-77-9
<b>The hazardous ingredient (%of the content) : -</b>

**Mixtures :**

<b>Chemical properties : -</b>	
Chinese and English names of The hazardous ingredients	Concentration or concentration ranges(ingredient percentage)
-	-

**4. FIRST AID MEASURES**

The first aid measures for different exposure routes: <b>Inhalation</b> : Remove to fresh air. Treat symptomatically. Get medical attention. <b>Skin</b> : Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and
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shoes. Get medical attention immediately. Wash contaminated clothing before cause. Destroy contaminated shoes

**Eyes** : Immediately flush with plenty of water for at least 15 minutes and get medical attention.

**Ingestion** : If swallowed, do NOT induce vomiting. Immediately give victim a glass of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

The most important symptoms and hazardous effects : -

The protective of first-aiders : -

Notes to a physician : -

## 5. FIRE FIGHTING MEASURES

**Suitable fire extinguishing media:** Water spray, dry chemical powder, carbon dioxide, or foam as appropriate for surrounding fire and materials.

**Specific hazards may be encountered during fire-fighting:-**

**Specific fire-fighting methods: -**

**Special equipment for the protection of firefighters:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** : Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

**Environmental precautions** : -

**Methods for cleaning up** : Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

## 7. HANDLING AND STORAGE

**Handling:** Avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Wash thoroughly after handling.

**Storage:** Keep in a tightly closed container, store in a cool, dry, ventilated place. Isolate from any source of heat or ignition.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering control** : -

**Control parameters:**

**8 hours time weighted average exposure limits/Short-term exposure limits/maximum exposure limits biological standards: -**

**Personal Protective Equipment** :

**Respiratory protection** : For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator.

**Hand protection: -**

**Eye protection:** Wear goggles or a face shield.

**Skin and body protection:** Wear boots, and protective clothing.

Hygiene measures:-

## 9. PHYSICAL/CHEMICAL PROPERTIES

<b>Appearance (physical state, color, etc.)</b> : White crystalline powder	<b>Odor</b> : slight characteristic odor
<b>Odor threshold</b> : -	<b>Melting point</b> : 273-274°C(523-525F) dec.
<b>pH-value</b> : -	<b>Boiling point/boiling point range:-</b>
<b>Flammability(solid, gas)</b> : -	<b>Flash point</b> : N/A (recommended to keep under 110°C)
<b>Decomposition temperature</b> : -	<b>Explosion limits</b> : -
<b>Auto-ignition temperature</b> : -	<b>Vapor density</b> : -
<b>Vapor pressure</b> : -	<b>Solubility</b> : 10g/100ml(water)
<b>Density</b> : -	<b>Evaporation rate</b> : -
<b>Partition coefficient (n-octanol/water,log Kow)</b> : -	

## 10. STABILITY AND REACTIVITY

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

**Possibility of hazardous under specific conditions:** -

**Conditions to avoid** : -

**Materials to avoid** : Strong oxidizing agents.

**Hazardous decomposition products** : Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur oxides.

## 11. TOXICOLOGICAL INFORMATION

**Routes of exposure**

**Acute Toxicity** : Inhalation Toxicity : -

Dermal Irritation : -

Eye Irritation : -

Oral Toxicity : -

**LD50(test animal \ absorb way)** : - mg/kg(rat \ Oral)

**LC50(test animal \ absorb way)** : - mg/m<sup>3</sup>/30min(rat \ Inhalation)

**Target organ effects:** -

**Irritation** : -

**Subchronic/Chronic Toxicity** : -

**Special effects** : - mg/kg

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** : **LC50 (fish)** : -

**EC50 (aquatic and terrestrial)** : -

**BCF** : -

**Persistence and degradability : -**

Bioaccumulative potential : -

Mobility in soil : -

Other adverse effects : -

**13. DISPOSAL CONSIDERATIONS**

**Methods of waste disposal:** Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental.

**14. TRANSPORT INFORMATION**

**United Nations number (UN No) :** Not applicable

**UN proper shipping name :** Not applicable

**Transport hazard class : Not dangerous sample.**

**Packing Group :** Not applicable

**Marine Pollutant (Yes/No) : No**

Specific transport measures and precautionary conditions : Not applicable

**15. REGULATORY INFORMATION**

Applicable regulations: -

**16. OTHER INFORMATION**

Literature References	-	
<b>Organization that prepared the SDS</b>	<b>Name :</b> TAIWAN HOPAX CHEMICALS MFG. CO., LTD.	
	<b>Address/telephone number:</b> No.28, Hua Dong Road, Daliao, Kaohsiung 83162, Taiwan TEL.:886-7-7887600	
<b>Person who prepared the SDS</b>	<b>Title:</b> QA Specialist	<b>Name (signature) :</b> Ping-Fan Chen
	<b>Date that the SDS was prepared:</b> 2019/07/02	