



## MERCHEM LIMITED

### SAFETY DATA SHEET

MERNOX SP  
MSDS No. 30/20.03.2015

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

Product Name Mernox SP  
Synonym Mixture of styrenated phenol

### 1.2 Use of the Substance/Mixture

Identified uses Antioxidant – non-staining (liquid) for use in most elastomers,

### 1.3 Manufacturer or supplier's details

Company/Undertaking identification address Merchem Limited  
Grove Centre,  
44- Development Plot,  
Kalamassery,  
Cochin – 683 109, Kerala, India  
Telephone + 91-484-4089300  
Telefax + 91-484-4089310

### 1.4 Emergency Telephone Number

Emergency Telephone Number + 91-484-4089300

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification according to EU directives 67/548/EEC or 1999/45/EC

N  
R51/53

EC Number: 262-975-0  
Annex 1 Index Number: Nil

REGULATION (EC) No. 1272/2008

Classification of the substance or mixture Hazardous to the aquatic environment, long-term hazard:Cat 4

### 2.2 Label elements

Product Name: Mernox SP

Hazard pictograms



Signal Word Warning



## MERCHEM LIMITED

### SAFETY DATA SHEET

MERNOX SP  
MSDS No. 30/20.03.2015

<b>Hazard Statements</b>	H413 - May cause long lasting harmful effects to aquatic life
<b>Precautionary Statements - Prevention</b>	P273 - Avoid release to the environment. P281 - Use personal protective equipment as required.
<b>Precautionary Statements - Response</b>	P302 + P352 IF ON SKIN: wash with plenty of soap and water
<b>Precautionary Statements - storage</b>	P402+P404 - Store in a dry place. Store in a closed container
<b>Precautionary Statements - Disposal</b>	P501 - Dispose of contents/ container to an approved waste disposal plant.

**2.3 Other hazards\_** : None

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

**Chemical description** : Mixture of mono ,di and tri styrenated phenol

#### Composition/Information on ingredients

Chemical Name	CAS No.	EC No.	Annex-1 Index No.	Weight %
Styrenated phenol	61788-44-1	262-975-0	-	98

### 3.2 Mixtures

Not applicable. Substance is not a mixture

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first-aid measures

<b>General Advice</b>	If symptoms persist, call a physician. Show this material safety data sheet to the doctor in attendance. Treat symptomatically. In case of allergic reaction after exposure, any future exposure must be avoided.
<b>Inhalation</b>	: Move to fresh air, if symptoms persist, seek medical advice
<b>Skin Contact</b>	: Wash immediately with soap and water
<b>Eye Contact</b>	: Rinse immediately as long as a possible with plenty of water. Seek medical advice if irritation persist
<b>Ingestion</b>	: Rinse mouth with water, Consult a physician.



## MERCHEM LIMITED

### SAFETY DATA SHEET

MERNOX SP  
MSDS No. 30/20.03.2015

#### **4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### **4.3 Indication of immediate medical attention and special treatment needed**

No data available

### **SECTION 5: FIRE FIGHTING MEASURES**

#### **5.1 Extinguishing media**

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### **5.2 Specific hazards arising from the substance or mixture**

Carbon oxides(COx), nitrogen oxides (NOx)

#### **5.3 Protective Equipment and Precautions for Firefighters**

Wear self contained breathing apparatus for fire fighting if necessary

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

- Use personal protective equipment.
- For personal protection see section 8.
- 

#### **6.2 Environmental precautions**

- Prevent further leakage or spillage if safe to do so.
- Do not let product enter drains.
- Discharge into the environment must be avoided

#### **6.3 Methods and materials for containment and cleaning up**

- Use appropriate containment to avoid environmental contamination.
- Transfer to a container for disposal or recovery.

#### **6.4 Reference to other sections**

- See section 7, 8 and 13

### **SECTION 7: HANDLING AND STORAGE**

#### **7.1 Precautions for safe handling**

- Avoid contact with skin and eyes.



## MERCHEM LIMITED

### SAFETY DATA SHEET

MERNOX SP  
MSDS No. 30/20.03.2015

#### 7.2 Conditions for safe storage, including any incompatibilities

- Store in mild steel drums / poly-carboys .
- Keep away from oxidising agents, acids, alkalis, moisture, heat and direct sunlight

#### 7.3 Specific end uses

A part from the uses mentioned in section 1.2 no other specific uses are stipulated.

### SECTION 8: EXPOSURE CONTROL/PERSONNEL PROTECTION

#### 8.1 Control parameters

**Occupational exposure limit values** No occupational exposure limit assigned.

#### 8.2 Exposure controls

**Engineering controls :** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### **Personal Protective Equipment:**

**Eye/face Protection :** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin Protection :** Handle with gloves. Gloves must be inspected prior to use. Use glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

**Body Protection :** Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

**Environmental exposure controls:** Prevent further leakage or spillage if safe to do so. Do not let products enter drains. Discharge into the environment must be avoided.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

- |                        |                                    |
|------------------------|------------------------------------|
| a) Appearance Form     | :Liquid                            |
| b) colour              | :Pale amber/straw yellow/colorless |
| c) Odour               | :Typically phenolic                |
| d) pH                  | :6.0 -6.5                          |
| e) Melting point/range | : NA                               |



## MERCHEM LIMITED

### SAFETY DATA SHEET

MERNOX SP  
MSDS No. 30/20.03.2015

f) Boiling point /boiling range	: No data available
g) Flash point	: 325°F Approx
h) Explosive property	: No data available
i) Flammability (solid, gas)	: No data available
j) Explosion Limits	: No data available
k) Vapour pressure	: No data available
l) Specific gravity	: 1.08
m) Bulk density	: NA
n) solubility	: Insoluble in water and soluble in Acetone and Alcohol
o) Partition coefficient	: No data available
p) Auto-ignition temperature	: No data available
q) Viscosity @25°C	: 3000 -6000 CPS
r) Oxidizing properties	: No data available

#### 9.2 Other information

No data available

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity

- See Incompatible Materials

#### 10.2 Chemical Stability

- Stable under recommended storage and handling conditions (See section 7)

#### 10.3 Possibility of hazardous reactions

- No data available

#### 10.4 Conditions to Avoid

- High temperature >100°C.

#### 10.5 Incompatible materials to avoid

- Oxidising agents, Acids & Alkalis

#### 10.6 Hazardous Decomposition Products

- Styrene, Carbon monoxide, Carbon dioxide, and phenol,

### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Acute oral toxicity</b> (LD50/oral/rat)	: 3550 mg/kg
<b>Acute dermal toxicity</b> (LD50/dermal/rabbit)	: 7940 mg/Kg
<b>Eye irritation</b>	: Irritating to eyes
<b>Skin irritation/Sensitization</b>	: Slightly irritating to skin and no sensitisation effects



## MERCHEM LIMITED

### SAFETY DATA SHEET

MERNOX SP  
MSDS No. 30/20.03.2015

<b>Inhalation</b>	: Limited possibility of over-exposure Combustion or thermal decomposition will evolve very toxic and irritant vapours.
<b>Mutagenic Effects</b>	: No data available
<b>Reproductive toxicity</b>	: No data available
<b>Carcinogenic effects</b>	: No data available
<b>Target Organ Effects</b>	: May cause respiratory irritation
<b>Human experience</b>	: No data available.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

**Ecotoxicity** ; No data Available

**Fish** : No data available

**Algae** : No data available

### 12.2 Mobility in soil

No data available

### 12.3 Persistence and degradability

No data available.

### 12.4 Bioaccumulative Potential

No data available.

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Other adverse effects

May cause long term adverse effects to aquatic life

### 12.7 Other information

Do not allow product to reach ground water, water course or sewage system.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste Disposal Method

#### Product

- Avoid discharge into the environment.
- This material and its container must be disposed of as hazardous waste. Disposal should be in accordance with local, state or national legislation

#### Contaminated Packing

- Dispose off in accordance with local regulations



## MERCHEM LIMITED

### SAFETY DATA SHEET

MERNOX SP  
MSDS No. 30/20.03.2015

#### SECTION 14: TRANSPORT INFORMATION

##### 12.1 Road transport (ADR/RID/ADN)

ADR/RID Class	9
UN-No	3082
Packing Group	III
"Hazard label"	Hazardous for the environment
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S. (Styrenated Phenol)

##### 12.2 Sea transport (IMDG)

ADR/RID Class	9
UN-No	3082
Packing Group	III
Marine pollutant	Yes
"Hazard label"	Hazardous for the environment
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S. (Styrenated Phenol)

##### 12.3 Air transport (ICAO-TI/IATA)

ADR/RID Class	9
UN-No	3082
Packing Group	III
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S. (Styrenated Phenol)

##### 12.4 Other information

No data available

##### 12.5 Environmental hazards

Information on environmental hazards, if relevant, pls. see 14.1 - 14.3.

##### 12.6 Special precautions for user

No data available

##### 12.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

#### SECTION 15: REGULATORY INFORMATION

##### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation 1907/2006 REGULATION (EC) No 1272/2008  
Classification according to EU directives 67/548/EEC or 1999/45/EC

##### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out



## MERCHEM LIMITED

### SAFETY DATA SHEET

MERNOX SP  
MSDS No. 30/20.03.2015

#### SECTION 16: OTHER INFORMATION

Issue No. 2  
Issue date : 20.03.2015  
Revision No. 0  
Reason for revision Reviewed & revamped based on the guide lines of Regulation (EC) No 1907/2006

#### List of relevant R(isk)-phrase(s)

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic Environment.

#### List of relevant S(afety)-phrase(s)

S 24 Avoid contact with skin.  
S36/37 Wear suitable protective clothing and gloves

S60 This material and/its container must be disposed of as hazardous waste.

S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Classification of dangerous substance directive (67/548/EEC)

N Dangerous for the environment

#### Training advice

Provide adequate information, instruction and training to operators

#### Further information for the material safety data sheet

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.

**End of Material Safety Data Sheet**