



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



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

General Advice	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.
Inhalation	: Move to fresh air, if symptoms persist, seek medical advice
Skin Contact	: Wash immediately with soap and water
Eye Contact	: Rinse immediately as long as a possible with plenty of water. Seek medical advice if irritation persist
Ingestion	: Rinse mouth with water, Consult a physician.



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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.
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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.



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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 |



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- 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

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



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



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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



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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