



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name MERPOL HCS
Version # 12
Revision date 05-20-2011
Product code 2082
Chemical class Alcohol ethoxylate
Manufacturer Stepan Company
22 West Frontage Road
Northfield, IL 60093
Emergency Medical 800-228-5635
Chemtrec 800-424-9300
Chemtrec Int'l 703-527-3887
General information General (847) 446-7500

2. Hazards Identification

Emergency overview Contact causes severe eye irritation. Contact with skin may cause irritation. May cause irritation of respiratory tract.

Potential health effects

Eyes Contact can cause moderate to severe irritation and possible injury to the eyes.
Skin This product may cause irritation to the skin.
Inhalation Inhalation of vapors or mists of the product may be irritating to the respiratory system.
Ingestion Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Proprietary Alcohol Ethoxylate	Proprietary	55-65
_Water	7732-18-5	25 - 35
_Hexylene Glycol	107-41-5	5 - 15

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.
Skin contact For skin contact flush with large amounts of water. Immediately take off all contaminated clothing. If irritation persists get medical attention. Wash clothing separately before reuse.
Inhalation If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion If ingestion of a large amount does occur, seek medical attention. Do NOT induce vomiting.

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Protection of firefighters

Protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

Personal precautions	Isolate area. Keep unnecessary personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
Methods for containment	Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Wear appropriate protective equipment and clothing during clean-up. Small Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Large Spills: Dike far ahead of liquid spill for later disposal.

7. Handling and Storage

Handling	Avoid contact with skin and eyes. Wash hands thoroughly after handling.
Storage	Store in cool place. Keep in a well-ventilated place.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components

Type

Value

_Hexylene Glycol (107-41-5)

Ceiling

25 ppm

Engineering controls	Use general ventilation. Local exhaust is suggested for use, where possible, in enclosed or confined spaces.
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Personal protective equipment

General

Eye wash fountain and emergency showers are recommended.

Eye / face protection

Wear chemical goggles. Face-shield.

Skin protection

Wear suitable protective clothing. Use impervious gloves.

Respiratory protection

If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

9. Physical & Chemical Properties

Color	Light yellow.
Physical state	Liquid
Form	Liquid.
pH	6 - 8 10% in DI water @ 25 C
Boiling point	> 212 °F (> 100 °C) @ 769 mmHg
Flash point	> 212 °F (> 100 °C) PMCC
Evaporation rate	Estimated slower than ethyl ether.
Flammability limits in air, upper, % by volume	NOT APPLICABLE.
Vapor pressure	Not Determined or Unknown
Vapor density	Estimated lighter than air.
Specific gravity	8.6
Solubility (water)	40 WT%
Viscosity	365 cps @ 25 C

10. Stability & Reactivity

Chemical stability	Stable at normal conditions.
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Not available.

12. Ecological Information

Ecotoxicological data

Components

Test Results

_Hexylene Glycol (107-41-5)

EC50 Water flea (Ceriodaphnia reticulata): 2400 - 3200 mg/l 48 hours

LC50 Bleak (Alburnus alburnus): 7000 - 9100 mg/l 96 hours

13. Disposal Considerations

Disposal instructions

Dispose in accordance with all applicable regulations. All wastes must be handled in accordance with local, state and federal regulations. Regulations vary.

14. Transport Information

Notes

Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

15. Regulatory Information

US federal regulations

US CERCLA Hazardous Substances: Reportable quantity

_Acetaldehyde (CAS 75-07-0) 1000 LBS

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

_Acetaldehyde (CAS 75-07-0) 0.1 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

_Acetaldehyde (CAS 75-07-0) Listed.

Reportable Quantity

Reportable Quantity (RQ) of this product is 15151515 pounds based upon _Acetaldehyde(75-07-0) which yielded the lowest resultant RQ according to the following formula: CERCLA ingredient RQ / % of that ingredient in the product.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Water Act (CWA)

Hazardous substance

Inventory status

Country(s) or region

Inventory name

On inventory (yes/no)*

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

California Proposition 65

WARNING: This product may contain a chemical known to the State of California to cause cancer and birth defects or other reproductive harm: ethylene oxide (75-21-8).

WARNING: This product contains a chemical known to the State of California to cause cancer:

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

_Acetaldehyde (CAS 75-07-0) Listed.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

_Acetaldehyde (CAS 75-07-0) Listed: April 1, 1988 Carcinogenic.

US - New Jersey Community RTK (EHS Survey): Reportable threshold

_Acetaldehyde (CAS 75-07-0) 500 LBS

US - New Jersey RTK - Substances: Listed substance

_Acetaldehyde (CAS 75-07-0) Substance no. 0001

_Hexylene Glycol (CAS 107-41-5) Substance no. 1003

US - Pennsylvania RTK - Hazardous Substances: Listed substance

_Acetaldehyde (CAS 75-07-0) Listed.

_Hexylene Glycol (CAS 107-41-5) Listed.

16. Other Information**Further information**

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 2
Flammability: 1
Physical hazard: 0
Personal protection: X

NFPA ratings

Health: 2
Flammability: 1
Instability: 0

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Issue date

05-20-2011

This data sheet contains changes from the previous version in section(s):

Composition / Information on Ingredients: Ingredients