

SAFETY DATA SHEET

Version: 3.0

Date:

08/20/2013



1. PRODUCT AND COMPANY IDENTIFICATION

MOVER 2X2.5 GALLON

Product Information: MOVER 2X2.5 GALLON

Company Identification:

Milliken Chemical
P.O. Box 1926
Spartanburg, SC, 29303 USA
1-864-472-9041
msds@milliken.com

Emergency telephone number:

Chemtrec:

1-800-424-9300 (Chemtrec - US)
1-703-527-3887 (International)

Intended Use: Chemical Intermediate

2. HAZARDS IDENTIFICATION

Emergency Overview

No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the MSDS for additional personal protection advice when handling this product.

HFRP Rating

Health	1
Flammability	1
Reactivity	0
Personal protection	B

Eye

May cause temporary eye irritation.

Inhalation

No adverse effects due to inhalation are expected.

Skin

May cause skin irritation.

Ingestion

No information about adverse effects due to exposure.

The product has been classified according to the legislation in force.

SAFETY DATA SHEET

Version: 3.0

Date:

08/20/2013



3. COMPOSITION / INFORMATION ON INGREDIENTS

Product name	CAS Number	Amount
Proprietary Surfactant Blend	Proprietary	17.0 %
1,2,3-Propanetricarboxylic acid, 2-hydroxy-	Proprietary	7.0 %
Water	7732-18-5	76.0 %

4. FIRST AID MEASURES

Eye	Flush thoroughly with water. If irritation occurs, get medical assistance.
Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard. When breathing is difficult, properly trained personnel may assist affected person by administering 100% oxygen. Get medical attention if any discomfort continues.
Skin	Wash skin thoroughly with soap and water for several minutes. Immediately remove contaminated clothing. Get medical attention if any discomfort continues.
Ingestion	Give one or two glasses of water if patient is alert and able to swallow. Seek immediate medical attention. Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

Flammability Properties

Flash Point > 100 °C
Method: Cleveland Open Cup

Fire Fighting Media Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

Fire Fighting Instructions Use standard firefighting procedures and consider the hazards of other involved materials. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Unusual Fire & Explosion Hazards No unusual fire or explosion hazards noted.

ACCIDENTAL RELEASE MEASURES Do not release into the environment., In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable

SAFETY DATA SHEET

Version: 3.0

Date:

08/20/2013



regulations., Collect and dispose of spillage as indicated in section 13 of the MSDS.

6. ACCIDENTAL RELEASE MEASURES

Safety Advice	Wear appropriate personal protective equipment.
Spill Cleanup Methods	Do not release into the environment. Dam and absorb spillages with sand, earth or other non-combustible material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labeled container. In case of spills, beware of slippery floors and surfaces.

7. HANDLING AND STORAGE

Handling	No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Wash promptly with soap and water if skin becomes contaminated. Practice good housekeeping. Provide adequate ventilation if fumes or vapors are generated. Avoid prolonged and repeated contact.
Storage Precautions	Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Keep containers tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls	No special requirements under ordinary conditions of use and with adequate ventilation.
Eye protection	Wear necessary protective equipment. Avoid contact with eyes and prolonged skin contact. Chemical goggles are recommended.
Skin and Body Protection	Wash promptly with soap and water if skin becomes contaminated. Wear protective gloves.
Personal protection	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Respiratory Protection	No protection is ordinarily required under normal conditions of use and with

SAFETY DATA SHEET

Version: 3.0

Date:

08/20/2013



adequate ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color	Colorless
Odor	Slight odor
Flash Point	> 100 °C Method: Cleveland Open Cup
pH	4 - 5
Density	1.0607 g/cm ³ @ 25 °C
Solubility	Completely Soluble

10. STABILITY AND REACTIVITY

Stability	Material is stable under normal conditions.
Conditions to avoid	No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the MSDS for additional personal protection advice when handling this product.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity : Oral

Component: 1,2,3-Propanetricarboxylic acid, 2-hydroxy-

Type: LD 50
Species: Rat
Result: 6,730 mg/kg
Type: LD 50
Species: Mouse
Result: 5,040 mg/kg

SAFETY DATA SHEET

Version: 3.0

Date:

08/20/2013



Specific target organ toxicity - single exposure

Component: 1,2,3-Propanetricarboxylic acid, 2-hydroxy-

Type: LD 50
Species: Rat
Route of Exposure: Intraperitoneal
Result: 883 mg/kg
Type: LD 50
Species: Mouse
Route of Exposure: Intravenous
Result: 42 mg/kg
Type: LD 50
Species: Mouse
Route of Exposure: Intraperitoneal
Result: 903 mg/kg
Type: LD 50
Species: Mouse
Route of Exposure: Subcutaneous
Result: 2,700 mg/kg
Type: LD 50
Species: Rabbit
Route of Exposure: Intravenous
Result: 330 mg/kg

12. ECOLOGICAL INFORMATION

Acute Fish Toxicity

Component: 1,2,3-Propanetricarboxylic acid, 2-hydroxy-

Species: Carp (*Leuciscus idus melanotus*)
Exposure time: 48 h
Type: LC 50
Result: 440 mg/l
Mortality

Component: 1,2,3-Propanetricarboxylic acid, 2-hydroxy-

Species: Carp (*Leuciscus idus melanotus*)
Exposure time: 48 h
Type: LC 50
Result: 760 mg/l
Mortality

Acute Toxicity Aquatic

Component: 1,2,3-Propanetricarboxylic acid, 2-hydroxy-

Species: Green or European shore crab (*Carcinus maenas*)
Exposure time: 48 h
Type: LC 50
Result: 160 mg/l
Method: Renewal
Mortality

SAFETY DATA SHEET

Version: 3.0

Date:
08/20/2013



13. DISPOSAL CONSIDERATIONS

Disposal Recommendations

Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Recycle empty drums at an appropriate facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal. Ensure drums are tightly sealed.

14. TRANSPORT INFORMATION

Department of Transportation (DOT)

Not regulated.

Sea (IMDG)

Not regulated.

Air (ICAO/IATA)

Not regulated.

Environmental hazards: Not regulated.

Special precautions for user: No special precautions.

15. REGULATORY INFORMATION

Chemical Inventory

Regulatory Lists Searched

Component

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA)
SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

None.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

None.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA)
SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

None present or none present in regulated quantities.

SAFETY DATA SHEET

Version: 3.0

Date:

08/20/2013



US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

No ingredient regulated by MA Right-to-Know Law present.

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

No ingredient regulated by NJ Right-to-Know Law present.

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

No ingredient regulated by PA Right-to-Know Law present.

California Proposition 65

Regulatory Basis

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

Regulatory List

CA PROP 65

No ingredient regulated by CA Prop 65 present.

Additional information is available by request.

16. OTHER INFORMATION

The information contained in this Material Safety Data Sheet is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Milliken Chemical.