# Stepan 💃

# SAFETY DATA SHEET

# 1. Identification

Product identifier AMMONYX MO

Other means of identification

Product code 1924
Recommended use Surfactant

**Recommended restrictions** For industrial use only. **Manufacturer/Importer/Supplier/Distributor information** 

Manufacturer

Company name Stepan Company
Address 22 West Frontage Road
Northfield, IL 60093

USA

**Telephone** General 1-847-446-7500

**E-mail** Not available.

**Emergency phone number** Medical 1-800-228-5635

Chemtrec 1-800-424-9300 Chemtrec Int'l +1 703-527-3887

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 1

Environmental hazards Hazardous to the aquatic environment, acute Category 1

hazard

Hazardous to the aquatic environment, Category 2

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes skin irritation. Causes serious eye damage. Very toxic to aquatic life. Toxic to aquatic life

with long lasting effects.

**Precautionary statement** 

Prevention Wash thoroughly after handling. Wear protective gloves. Wear eye/face protection. Avoid release

to the environment.

Response If on skin: Wash with plenty of water. Specific treatment (see this label). If skin irritation occurs:

Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Take off contaminated clothing and wash before reuse. Collect spillage.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Material name: AMMONYX MO

Chemical name	Common name and synonyms	CAS number	<u></u>
Water		7732-18-5	65 - 75
Dimethyltetradecylamine Oxid	de	3332-27-2	29 - < 31

## 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin

irritation occurs: Get medical advice/attention.

Immediately flush eves with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Do not induce vomiting without advice from poison control center.

Most important symptoms/effects, acute and

delayed

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

**General information** In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take

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

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

precautions to protect themselves.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted. General fire hazards

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

**Environmental precautions** 

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling

Do not taste or swallow. Avoid contact with skin. Do not get this material in contact with eyes. Avoid contact with clothing. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container.

## 8. Exposure controls/personal protection

**Biological limit values** No biological exposure limits noted for the ingredient(s).

SDS US Material name: AMMONYX MO 2/7 Appropriate engineering

controls

Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency

shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Wear protective gloves.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. 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.

# 9. Physical and chemical properties

Appearance Clear.
Physical state Liquid.
Form Liquid.

Color Not available.

Odor Not available.

Odor threshold Not available.

pH 7 - 9 (10% in H2O)

Melting point/freezing point 34 °F (1.11 °C)

Initial boiling point and boiling

range

Flash point

> 201.0 °F (> 93.9 °C)

212 °F (100 °C)

**Evaporation rate** Estimated slower than ethyl ether

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not determined or unknown

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

Viscosity

459 cP @ 60C
2336 cP @ 25C

Other information

 Percent volatile
 68 - 71 %

 Pour point
 39 °F (3.89 °C)

 Specific gravity
 0.96 @ 25C

## 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

products

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Nitrous acid and other nitrosating agents

Hazardous decomposition Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide,

carbon monoxide and other low molecular weight hydrocarbons.

# 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** Causes skin irritation.

**Eye contact** Causes serious eye damage.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

Information on toxicological effects

**Acute toxicity** May be harmful in contact with skin.

Product Species Test Results

AMMONYX MO

Acute

**Dermal** 

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Rat > 5000 mg/kg

**Skin corrosion/irritation** Causes skin irritation. Causes severe eye damage.

Serious eye damage/eye

Causes serious eye damage.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not applicable.

Specific target organ toxicity -

repeated exposure

Not applicable.

Aspiration hazard Not applicable.

12. Ecological information

**Ecotoxicity** Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Persistence and degradability Readily biodegradable.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

Lauramine Oxide 4.67

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions**Dispose of contents/container in accordance with local/regional/national/international regulations.

Material name: AMMONYX MO

**Hazardous waste code**The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

# 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### **IATA**

UN number UN3082

UN proper shipping name Transport hazard class(es) Environmentally Hazardous Substance, Liquid, N.O.S. (Dimethyltetradecylamine oxide)

Class 9
Subsidiary risk Packing group III
Environmental hazards Yes

Special precautions for user Not available.

**IMDG** 

UN number UN3082

UN proper shipping name Environmentally Hazardous Substance, Liquid, N.O.S. (Dimethyltetradecylamine oxide), MARINE

**POLLUTANT** 

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III

**Environmental hazards** 

Marine pollutant Yes

EmS Not available.

Special precautions for user Not available.

Insport in bulk according to Not available.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

IATA; IMDG



#### Marine pollutant



# 15. Regulatory information

**US federal regulations**This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## **Toxic Substances Control Act (TSCA)**

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

## **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

## SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

# SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Classified hazard Skin corrosion or irritation

Yes

Serious eye damage or eye irritation categories

## SARA 313 (TRI reporting)

Not regulated.

# Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **International Inventories**

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
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
New Zealand	New Zealand Inventory (NZIoC)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

Taiwan Taiwan Inventory (TCSI) Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

# 16. Other information, including date of preparation or last revision

06-30-2014 Issue date **Revision date** 08-16-2022

Version # 07

Health: 3 **HMIS®** ratings

Flammability: 1 Physical hazard: 0

Health: 3 NFPA ratings

Flammability: 1 Instability: 0

Material name: AMMONYX MO SDS US

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

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### **Disclaimer**

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#### **Revision information**

Composition / Information on Ingredients: Ingredients Toxicological information: Respiratory sensitization

Other information, including date of preparation or last revision: References

HazReg Data: International Inventories

GHS: Classification

Material name: AMMONYX MO SDS US