

SAFETY DATA SHEET

SuvoN HS-MSO

1. Identification

Trade Name: SuvoN HS-MSO

Family: Surfactant

Formula: Proprietary blend

Manufacturer: Novus Ag LLC, PO Box 271070, Fort Collins, CO 80527

Phone: 1-970-666-4100

Chemical Emergencies: INFO TRAC day or night: 1-800-535-5053

For other emergencies call 911 and/or appropriate regulatory agencies.

2. Hazard Identification

Classification of the substance or mixture

HCS 2012 (29 CFR 1910.1200)

Causes eye irritation. Category 2B

Label elements

HCS 2012 (29 CFR 1910.1200)

Signal Word: Warning

Hazard Statements:

Causes eye irritation.

Precautionary Statements:

Prevention

Wash thoroughly after handling.

Wear protective eyewear.

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If irritation persists, call a poison control center or doctor for treatment advice.

3. Composition/Information on Ingredients

Principal Materials

Methylated Seed Oil

(Proprietary blend) Ethoxylated Nonionic Surfactant

Percent

60%

40%

4. First Aid Measures

Emergency First Aid Measures:

IF SWALLOWED: Wash out mouth with water. Get medical attention immediately. Never give anything by mouth to an unconscious person.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, call a poison control center or doctor for treatment advice.

IF ON SKIN: Wash with soap and water.

IF INHALED: Remove to fresh air. Treat symptomatically.

Eye Exposure:

Flush eyes with water for at least 15 minutes. Seek medical attention if irritation develops or persists.

Skin Exposure:

Wash with soap and water for at least 15 minutes. Seek medical attention if irritation develops or persists.

Clean contaminated clothing and shoes before re-use or discard if they cannot be thoroughly cleaned.

Inhalation:

Remove subject from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer artificial resuscitation. Seek medical attention.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:

Skin contact may aggravate existing skin disease. Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis.

NOTES TO PHYSICIAN:

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to possibility that overexposure to materials other than this product may have occurred.

Treat symptomatically. No specific antidote available.

5. Fire Fighting Measures

Flash Point: 230 F

Method Used: Seta Closed Cup

Extinguishing Media: (Small fires): dry chemical, carbon dioxide, (Large fire): alcohol foam, universal foam.

Recommended: Use carbon dioxide or dry chemical

Not Recommended: Water jet

Special Fire Fighting Procedures:

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

Unusual Fire and Explosion Hazards: Product will burn under conditions

Hazardous Decomposition Materials (Under Fire Conditions): oxides of nitrogen, sulfur and carbon

6. Accidental Release Measures

Evacuation Procedures and Safety:

Wear appropriate protective gear for the situation. See personal protection information in Section 8.

Containment of Spill:

Stop leak if it can be done without risk. Dike spill using absorbent or impervious materials such as earth, sand or clay. Follow procedure described below under Cleanup and Disposal of Spill.

Cleanup and Disposal of Spill:

Absorb with an inert absorbent. Sweep up and place in an appropriate closed container (see Section 7: Handling and Storage Information). **DO NOT RETURN MATERIAL TO ITS ORIGINAL CONTAINER.** Clean up residual material by washing area with water. Collect washings for disposal. Decontaminate tools and equipment following cleanup.

Environmental and Regulatory Reporting:

Do not flush to drain. Prevent material from entering public sewer system or any waterways. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

7. Handling and Storage Information

Minimum/Maximum Storage Temperature:

7 to 49 C (45 to 120 F)

Handling:

Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes. Store above 40°F. **DO NOT ALLOW TO FREEZE.** If freezing occurs, thaw and remix before using. Mix thoroughly to assure homogeneity.

Ethylene oxide may collect in container head space. Although concentrations are expected to remain below established exposure limits, provide adequate ventilation when accessing or working with open containers and tanks.

Storage:

Store in tightly closed containers. Store in an area that is dry, well-ventilated, away from ignition sources, away from incompatible materials (see Section 10. Stability and Reactivity).

8. Exposure Controls / Personal Protection Information

Introductory Remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with section 13: Disposal Information.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

Exposure Guidelines:

Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting the regulatory requirements. The following limits apply to this material, where, if indicated, S=skin and C=ceiling Limit:

Engineering Controls:

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures; general area dilution/exhaust ventilation.

Respiratory Protection:

When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

Eye/Face Protection:

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

Eye contact should be prevented through the uses of chemical safety glasses with side shields or splash-proof goggles. An emergency eye wash must be readily accessible to the work area.

Skin Protection:

Skin contact should be prevented through use of permeation resistant clothing, gloves and footwear, selected with regard for use conditions and exposure control. An emergency shower must be readily accessible to the work area. Consideration must be given both to durability as well as permeation resistance.

Work Practice Controls:

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material.

1. Do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
2. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
3. Wash exposed skin promptly to remove accidental splashes or contact with this material.

9. Physical and Chemical Properties

Physical Appearance &

Odor:	Light yellow/brown suspension liquid/Characteristic odor
pH:	No Data Available
Specific Gravity/Density:	7.63
Water Solubility:	Dispersible
Melting Point Range:	No Data Available
Freezing Point Range:	No Data Available
Boiling Point Range:	No Data Available
Vapor Pressure:	No Data Available

Vapor Density:	No Data Available
Evaporation Rate:	No Data Available
Percent Non-Volatiles by Weight:	No Data Available
Percent Volatiles by Volume:	No Data Available
Viscosity:	No Data Available

10. Stability and Reactivity Information

Chemical Stability:

This material is stable under normal handling and storage conditions described in Section 7.

Conditions to be Avoided:

Excessive heat, open flame, spark, ignition sources.

Materials/Chemicals to be Avoided:

Strong oxidizing agents, strong bases. □

Hazardous Polymerization:

Will not occur

Avoid the Following Conditions to Inhibit Hazardous Polymerization:

Not applicable

The Following Hazardous Decomposition Products Might Be Expected:

Decomposition Type: thermal

Oxides of nitrogen, sulfur or carbon.

11. Toxicological Information

Skin: Slightly irritating to the skin.

Eyes: Slightly irritation to the eyes.

12. Ecological Information

Ecotoxicological Information:

No data found for this product.

Chemical Fate Information:

No data found for this product.

13. Disposal Information

Cleanup and Disposal of Spill:

Dike or container spill. Absorb with inert material and dispose. Flush area with water. Prevent washings from entering waterways. Dispose of in accordance with local, state or federal regulations. Rinse with an appropriate solvent. Refer to Section 6 for more information.

14. Transport Information

US DOT: Not Regulated

TDG: Not Dangerous

IMO: Not Regulated

IATA: Not Regulated

15. Regulatory Information

Federal Regulations

Inventory Issues:

All functional components of this product are listed on the TSCA Inventory.

SARA Title III Hazard Classes:

Fire Hazard	- NO
Reactive Hazard	- NO
Release of Pressure	- NO
Acute Health Hazard	- YES
Chronic Health Hazard	- NO

16. Other Information

National Fire Protection Association Hazard Ratings (NFPA)

1 Health Hazard Rating- Moderate

1 Flammability Rating- Slight

0 Instability Rating- Minimal

Key Legend Information:

ACGIH- American Conference of Governmental Industrial Hygienists

OSHA- Occupational Safety and Health Administration

TLV- Threshold Limit Value

PEL- Permissible Exposure Limits

TWA- Time Weighted Average

STEL- Short Term Exposure Limit

NTP- National Toxicology Program

IARC- International Agency for Research on Cancer

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The information provided in this Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary. We reserve the right to revise Safety Data Sheets from time to time as new technical information becomes available. The information contained herein is furnished without warranty of any kind.