

OptiSource™

The Optical Supply Resource

40 Sawgrass Drive, Bellport, NY 11713-1564

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MATERIAL SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

PRODUCT IDENTITY: Super Hydro Spray (99-SUPHYDRO)

COMPANY IDENTITY: OptiSource, **COMPANY ADDRESS:** 40

Sawgrass Drive, Bellport, NY 11713 **COMPANY PHONE:**

1-800-678-4768

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SECTION 2. HAZARD IDENTIFICATION

Flammable Liquids Category 2

Highly flammable liquid and vapor

Signal word: Danger



PRECAUTIONARY STATEMENTS

Keep away from heat/sparks/open flames/hot surfaces- no smoking

Keep Container tightly closed

Ground/Bond container and receiving equipment

Use explosion proof electrical/ventilation/lighting/ (specify other equipment) equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Wear protective gloves/clothing/eye protection/face protection

Response Statements

Take off immediately all contaminated clothing and wash before reuse

In case of fire, use: NFPA Class B extinguishers (Carbon Dioxide or foam) for Class I B liquid fires. Do not use streams of water to extinguish

HAZARDS NOT OTHERWISE CLASSIFIED: None known

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CONTAINS: 88% - 92.5% ISOPROPYL ALCOHOL (67-63-0)

7.5% - 12% TRADE SECRET MIXTURE

7.5-12.5% of the composition of this mixture has been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

EYE CONTACT: Flush with plenty of water for 15 minutes and seek medical attention.

SKIN CONTACT: Wash thoroughly with soap and water.

INHALATION: Remove to fresh air. If breathing is difficult, give oxygen.

SWALLOWING: Give two glasses of water and seek medical attention. Do not induce vomiting unless instructed by a medical professional.

MOST IMPORTANT SYMPTOMS ACUTE OR DELAYED: None known, if exposed or concerned seek medical attention and treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: NFPA Class B extinguishers (Carbon Dioxide or foam) for Class I B liquid fires.

UNSUITABLE EXTINGUISHING MEDIA: Streams of water

Fire Fighting Instructions: Evacuate area. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop a leak. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards: Highly flammable. Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Hazardous material. Firefighters should consider protective equipment indicated in Section 8.

Hazardous Combustion Products: Smoke, Fume, Incomplete combustion products, Oxides of carbon

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

PROTECTIVE MEASURES

Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required due to toxicity or flammability of the material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

SPILL MANAGEMENT

Land Spill: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do it without risk. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Large Spills: Water spray may reduce vapor; but may not prevent ignition in closed spaces. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do it without risk. Eliminate sources of ignition. Warn other shipping. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

ENVIRONMENTAL PRECAUTIONS

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways,

sewers, basements or confined areas.

SECTION 7. HANDLING AND STORAGE

HANDLING

Avoid contact with eyes. Prevent exposure to ignition sources, for example use non-sparking tools and explosion-proof equipment. Potentially toxic/irritating fumes/vapors may be evolved from heated or agitated material. Use only with adequate ventilation. Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Peroxides may form upon prolonged storage. Exposure to light, heat or air significantly increases peroxide formation. If evaporated to a residue, the mixture of peroxides residue and material vapor may explode when exposed to heat or shock. Prevent small spills and leakage to avoid slip hazard.

Loading/Unloading Temperature: [Ambient]

Transport Temperature: [Ambient]

Transport Pressure: [Ambient]

Static Accumulator: This material is not a static accumulator.

STORAGE

Ample fire water supply should be available. A fixed sprinkler/deluge system is recommended. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area. Outside or detached storage preferred. Storage containers should be grounded and bonded. Fixed storage containers, transfer containers and associated equipment should be grounded and bonded to prevent accumulation of static charge.

Storage Temperature: [Ambient]

Storage Pressure: [Ambient]

Suitable Materials and Coatings (Chemical Compatibility): Carbon Steel; Stainless Steel; Polyester; Teflon; Polyethylene; Polypropylene; Copper Bronze; Epoxy Phenolic; Zinc; Vinyls

Unsuitable Materials and Coatings: Aluminum; Cast iron; Polystyrene; Ethylene-propylene-diene monomer (EPDM); Monel; Butyl Rubber; Natural Rubber

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

EXPOSURE LIMIT VALUES

Exposure limits/standards (Note: Exposure limits are not additive)

Substance Name	Form	Limit / Standard			NOTE	Source
ISOPROPYL ALCOHOL		TWA	980 mg/m ³	400 ppm	N/A	OSHA Z1
ISOPROPYL ALCOHOL		STEL	400 ppm		N/A	ACGIH
ISOPROPYL ALCOHOL		TWA	200 ppm		N/A	ACGIH

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

Biological limits

Substance	Specimen	Sampling Time		Determinant	Source
ISOPROPYL ALCOHOL	Urine	End of shift at end of work wk	40 mg/l	Acetone	ACGIH BELs (BEIs)

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

Adequate ventilation should be provided so that exposure limits are not exceeded. Use explosion-proof ventilation equipment.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

Half-face filter respirator

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

If prolonged or repeated contact is likely, chemical resistant gloves are recommended.
If contact with forearms is likely, wear gauntlet style gloves.

Eye Protection: Chemical goggles are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

Specific Hygiene Measures: 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. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9. PHYSICAL DATA

APPEARANCE: Liquid, Clear-Colorless

ODOR: Mild

ODOR THRESHOLD: No Data Available

PH: No Data Available

BOILING POINT: 82.4C

AUTOIGNITION TEMPERATURE: 425C

FLAMMABLE LIMITS (LEL): 2% Vol.

EVAPORATION RATE: No data available

FLAMMABLE LIMITS (UEL): 12.7% Vol.

FLASH POINT: 11 C (Closed Cup)

SPECIFIC GRAVITY: 0.789

DENSITY: 0.789 g/ml

RELATIVE DENSITY: Not Available

VAPOR DENSITY: 2.1

PARTITION COEFFICIENT: No data available

DECOMPOSITION TEMPERATURE: No data available

VISCOSITY: No data available

VAPOR PRESSURE (mm of Hg)@20 C: 33

SOLUBILITY IN WATER: Complete

HAZARDOUS AIR POLLUTANTS: 0 % weight

VOCs: 780 g/l PERCENT VOLATILE: 99 % weight

SECTION 10. STABILITY & REACTIVITY

REACTIVITY: Not Available

STABILITY: Stable

CONDITIONS TO AVOID: Isolate from oxidizers, heat, sparks, electric equipment & open flame

MATERIALS TO AVOID: None known

HAZARDOUS POLYMERIZATION: will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon dioxide from burning

SECTION 11. TOXICOLOGICAL INFORMATION

Description of health effects

Vapor concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous system effects.

Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis.

Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

Eye contact may cause irritation

NUMERICAL MEASURES OF TOXICITY

LD50: 5,840 mg/kg (acute oral - rat); 13,000 mg/kg (acute dermal - rabbit) LD50: 16,000 ppm/8hr (inhalation – rat) MUTAGENICITY: Not Indicated LDlo: 5,000 mg/kg (oral - rabbit) REPRODUCTIVE EFFECTS: Not Indicated CARCINOGENICITY: Not identified as a carcinogen by OSHO, IARC, or NTP NOT EXPECTED to cause cancer based on NTP, IARC and OSHA

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY: N/A SOIL ABSORPTION/MOBILITY: This material is a mobile liquid DEGRADABILITY: This product is completely biodegradable. ACCUMULATION: This product does not accumulate or biomagnify in the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws. If questions exist, contact the appropriate agencies.

SECTION 14. TRANSPORT INFORMATION

DOT Shipping Name: Consumer Commodity ORM-D DOT Packing Group: II DOT Hazard Class: 3 DOT Label: Flammable Liquid UN ID: UN 1219

SECTION 15. REGULATORY INFORMATION

RCRA Hazardous Waste Number/ Classification: D001 CERCLA Substance: N/A HAZARDOUS AIR POLLUTANT (CAA): No SARA 311/312 Codes: N/A SARA Toxic Chemical: Yes, (Strong manufacturing only) CERCLA Reportable Quantity: 10,000 lbs (Default) TSCA: The ingredients of this product are on the TSCA inventory.

SECTION 16. OTHER INFORMATION

Date of Last Revision: 06/21/2022

NFPA Hazard Classification Health: 1 Flammability: 3 Reactivity: 0 Special Hazards: None

HMIS Hazard Classification Health: 1 Flammability: 3 Reactivity: 0 Protection: X

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