

**Safety Data Sheet
SURFAC-901**

1. PRODUCT IDENTIFICATION AND COMPANY

Trade Name: SURFAC-901

Synonyms: --

Formula: --

Manufacturer: Astro-Chem Lab, Inc.

4102 2nd Ave W

Williston, ND 58801

Phone: 701-572-7355

Article no(s):

CAS-no: Mixture

EC-no:

24 Hour Phone Number: 800-568-6614

2. HAZARD IDENTIFICATION



Emergency Overview:

DANGER

FLAMMABLE LIQUID AND VAPOR. May be fatal or cause blindness if swallowed. Harmful if inhaled or absorbed through the skin. Causes irritation to skin, eyes and respiratory tract. Affects central nervous system, kidneys, liver.

Potential Health Effects:

Eyes:

Irritant, characterized by a burning sensation, redness, tearing, inflammation, possible corneal injury, painful sensitization to light. Continued exposure may cause lesions.

Skin:

Causes skin irritation and can cause skin burns. May cause skin to become dry and cracked.

Inhalation:

Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over-exposure may affect the brain, peripheral nerve, blood, urinary system, liver and may possibly cause death.

Ingestion:

Ingestion may cause gastrointestinal tract irritation accompanied by nausea, vomiting, diarrhea and abdominal pain. May cause central nervous system depression, unconsciousness, coma and possible death due to respiratory failure.

Chronic Exposure:

Repeated or prolonged exposure to the substance can produce target organs damage. May cause defatting of the skin and dermatitis. May cause adverse reproductive effects based on animal data. Repeated exposure to a highly toxic material may

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produce general deterioration of health by an accumulation in one or many human organs.

3. COMPOSITION AND INFORMATION ON INGREDIENTS
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Hazardous Ingredient	Percent	CAS Number	TLV-TWA
Methanol	15-20	67-56-1	200 PPM
Isopropyl Alcohol	<10	67-63-0	400 PPM

4. FIRST AID MEASURES

Medical Conditions Aggravated:	None Known.
Ingestion:	If swallowed, <i>do not</i> induce vomiting. Dilute with water or milk and seek medical attention immediately. Ingestion may result in weakness (in large amounts).
Inhalation:	Move to fresh air. If breathing has stopped, give artificial respiration, then oxygen, if needed. Seek medical attention immediately. Prolonged inhalation of vapors may lead to a sense of drunkenness. May result in central nervous system depression.
Eye Contact:	Flush with water for at least 15 minutes. Contact a physician immediately. Will irritate and injure eye tissue if not removed promptly.
Skin (Dermal):	Remove contaminated clothing and wash contaminated skin with large amounts of soap and water. Launder clothing before re-use. If irritation persists, contact a physician.
Signs and Symptoms:	Early to moderate central nervous system depression may be evidenced by giddiness, headache, dizziness and nausea.
Listed Carcinogens:	None listed.

5. FIRE FIGHTING MEASURES

Extinguishing Media:	Use water fog, CO ₂ , or dry chemical extinguishing media.
Special Fire Fighting Procedures:	Use of self-contained breathing apparatus is recommended with full face piece.
Unusual Fire and Explosion Hazards:	None known.

6. ACCIDENTAL RELEASE MEASURES

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Spill: Flammable liquid. Release can cause an immediate fire/explosion hazard. Eliminate all ignition sources, stop spill and use non-combustible absorbent materials. If necessary, contain spill by diking. Collect liquid with explosion proof pumps and/or non-combustible absorbent.

7. HANDLING AND STORAGE

Handling: Keep away from heat and sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas, fumes, vapors, or spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from incompatibles such as oxidizing agents, acids, metals and alkalis.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep away from heat, sparks and flames.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protective Equipment

Eye/face Protection Use safety glasses with side shields. Keep chemical out of eyes. Use goggles, if condition warrants (windy, etc.)

Skin Protection: Avoid contact with the skin. Use layers of clothing to prevent skin contact. Wear protective gloves and suitable protective clothing (long sleeved shirts and long pants). Coveralls and face shields may be preferred if conditions warrant. (windy, etc.)

Respiratory Protection: Use an approved/certified respirator or equivalent whenever workplace conditions warrant a respirator's use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid, alcohol odor.

Boiling Point: N/A

Vapor Pressure: N/A

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Vapor Density: N/A
Density @ 60°F: 8.13 pounds/gallon
Specific Gravity: 0.965
Solubility in Water: Soluble
pH: N/A
Flash Point: 90°F, TCC

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.
Hazardous Polymerization: Will not occur under normal conditions.
Incompatibility: None known.
Hazardous Decomposition Products: None known.
Conditions to Avoid: None known.

11. TOXICOLOGICAL INFORMATION

Methanol		
Product	Species	Test Results
Acute		
<i>Dermal</i>		
LD50	Rabbit	15,800 mg/Kg
<i>Oral</i>		
LD50	Mouse	7,300 mg/Kg
LD50	Rabbit	14,200 mg/Kg
LD50	Rat	5,628 mg/Kg
<i>Inhalation</i>		
LD50	Rat	64,000 mg/Kg
Isopropyl Alcohol		
Product	Species	Test Results
Acute		
<i>Dermal</i>		
LD50	Rabbit	12,800 mg/Kg
<i>Oral</i>		
LD50	Mouse	3,600 mg/Kg
<i>Inhalation</i>		
LC50	Rat	16,000 mg/Kg

12. ECOLOGICAL INFORMATION

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Environmental:	Methanol in fresh or salt water may have serious effects on aquatic life. A study in methanol's toxic effects on sewage sludge bacteria reported little effect on digestion at 0.1% while 0.5% methanol retarded digestion. Methanol will be broken down into carbon dioxide and water.
Mobility:	Not Available.
Persistence and Degradability:	Readily biodegradable in water. Methanol, when released into the air is expected to exist in the aerosol phase and will be degraded from the ambient atmosphere by the reaction with photochemically produced hydroxyl radicals with an estimated half life of 17.8 days. When released into the soil, methanol is expected to readily biodegrade and leach into groundwater. When released into water, it is expected to have a half life of between 1 and 10 days. Isopropyl Alcohol and Phosphoric Acid – Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

13. DISPOSAL CONSIDERATIONS

Waste Disposal:	Responsibility for proper waste disposal rests with the generator of the waste. Dispose of any waste material in accordance with applicable regulations.
RCRA Status:	Under RCRA, it is the responsibility of the user to determine, at the time of disposal, whether product meets RCRA criteria for hazardous waste.

14. TRANSPORT INFORMATION

Proper Shipping Name:	UN 1993, Flammable Liquid, N.O.S., (Contains Isopropyl Alcohol &Methanol) 3, PG II, ERG 128
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15. REGULATORY INFORMATION

SARA Section 313:	None listed
HMIS Health:	1
HMIS Flammability:	3
HMIS Reactivity:	0
HMIS Personal Protection:	C

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16. OTHER INFORMATION

Date Issued: November 2013

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