Safety Data Sheet
SCALPRO-28S

1. PRODUCT IDENTIFICATION AND COMPANY

Trade Name: SCALPRO-28S
Synonyms: --
Formula: --
Manufacturer: Astro-Chem Lab, Inc.
4102 2nd Ave W
Williston, ND 58801
Phone: 701-572-7355
24 Hour Phone Number: 800-568-6614

Article no(s):
CAS-no: Mixture
EC-no:

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 and 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: Methyl Alcohol is a defatting agent and may cause skin to become dry and cracked. Skin absorption can occur in harmful amounts; symptoms may parallel inhalation exposure.

Inhalation: An irritant to the mucous membranes. Toxic effects exerted upon nervous system, particularly the optic nerve. Once absorbed into the body, it is very slowly eliminated. Symptoms of over exposure may include headache, drowsiness, nausea, vomiting, blurred vision, blindness, coma, and death. A person may get better but then worse up to 30 hours later.

Ingestion: Toxic. Symptoms similar to those for inhalation, but severity and speed of appearance may be greater. May be fatal or cause blindness. Usual fatal dose: 100-125 ml. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause central nervous system depression, characterized by

excitement, followed by headache, dizziness, drowsiness and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

Chronic Exposure: Marked impairment of vision has been reported. Repeated or prolonged skin contact may cause dermatitis. Chronic exposure may cause reproductive disorders and teratogenic effects. Laboratory experiments have resulted in mutagenic effects.

Aggravation of Preexisting Conditions: Persons with preexisting skin disorders, eye problems, impaired liver, or kidney function may be more susceptible to the effects of the substance.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredient	Percent	CAS Number	TLV-TWA
Methanol	20-25	67-56-1	200 PPM

4. FIRST AID MEASURES

Medical Conditions Aggravated: Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product.

Ingestion: Seek medical attention. Do not induce vomiting. If conscious, drink large quantities of water. May cause blindness, or in extreme cases, death.

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.

Eye Contact: Flush with water for at least 15 minutes. Contact a physician immediately. Eye contact will cause irritation.

Skin (Dermal): Remove contaminated clothing and wash contaminated skin with large amounts of soap and water. If irritation persists, contact a physician. Re-launder clothing before reuse. Repeated or prolonged contact may cause irritation and dermatitis, especially to preexisting conditions.

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: Dry chemical or CO_2.

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

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

7. HANDLING AND STORAGE

Handling: Wash hands thoroughly after handling. In the event of exposure, remove contaminated clothing and wash before reuse. Containers should be grounded and bonded when transferring material in order to avoid static sparks. Do not breathe vapor, mist or gas. Do not get in eyes, skin or clothing. Use non-sparking type tools and equipment, including explosion-proof ventilation. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, sparks, flame, static electricity or other sources of ignition. Keep container tightly closed.

Storage: Keep away from heat, sparks, flames (all sources of ignition). Keep away from oxidizers, acids and bases. Store in a cool, dry, well-ventilated area away from incompatible substances outside or detached storage is recommended. Tanks must be grounded and vented and have vapor emission controls including floating roofs, inert gas blanketing to prevent the formation of explosive mixtures and pressure vacuum relief valves to control tank pressures. Tanks should be of welded construction and should also be diked. Do not store in aluminum or lead containers. Plastics may be used for short-term storage, but not recommended

for long-term use due to deterioration effects and the subsequent risk of contamination.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: Use explosion-proof ventilation equipment. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use only under a chemical fume hood. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

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: A respiratory protection program that meets OSHA's 29 CRF 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light tan liquid, nearly odorless.
Boiling Point:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A
Density @ 60°F:	8.92 pounds/gallon
Specific Gravity:	1.070
Solubility in Water:	Soluble
pH:	N/A
Flash Point:	85°F, TCC

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.
Hazardous Polymerization:	Will not occur under normal conditions.
Incompatibility:	Keep away from strong oxidizing agents.

Hazardous Decomposition

Products: Oxides of nitrogen and phosphorous.
Conditions to Avoid: None known.

11. TOXICOLOGICAL INFORMATION

Methanol

Product	**Species**	**Test Results**
Acute		
Dermal		
LD50	Rabbit	15,800 mg/Kg
Oral		
LD50	Mouse	7,300 mg/Kg
LD50	Rabbit	14,200 mg/Kg
LD50	Rat	5,628 mg/Kg
Inhalation		
LD50	Rat	64,000 mg/Kg

12. ECOLOGICAL INFORMATION

Environmental: 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: Volatile organic compound (VOC): 100%

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.

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 Methanol & Methylene Phosphoric Acid), 3, PG II, ERG 128

15. REGULATORY INFORMATION

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

16. OTHER INFORMATION

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