

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Product Identity:

PAN 0.1% INDICATOR SOLUTION IN METHANOL

Supplier's Name:

S D FINE-CHEM LIMITED

Address:

315-317 T.V.IND. ESTATE, 248, WORLI ROAD,MUMBAI-400 030, INDIA

Emergency Contact:

phone: 91-22 2495 98 98 / 99 FAX: 91-22 2493 7232 Email: technical@sdfine.com

Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Methanol (Methyl Alcohol)	67-56-1	Balance	200 ppm	200 ppm
			262 mg/m3	260 mg/m3
PAN (1-(2-Pyridylazo)-2-naphthol)	85-85-8	0.01 - 1	Not Available	Not Available
			Not Available	Not Available

Section 3: Hazard Identification

Emergency Overview: Flammable liquid. Primarily toxic by ingestion. Cannot be made non-poisonous. If ingested, give large quantity of water and induce vomiting. Call a physician. Contact may cause dryness and cracking of the skin. May cause irritation to the eyes. Wash areas of contact with water. May cause irritation of the respiratory system.

Target Organs: eyes, skin, respiratory system, central nervous system, gastrointestinal tract, liver.

Eye Contact: May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva.

Inhalation: May cause irritation of the eyes, nose, throat, upper respiratory tract and associated mucosa. Central nervous system effects include headache, nervousness, tremors, acidosis, convulsions, dizziness, tearing, fatigue, nausea, somnolence, narcosis with stupor and loss of consciousness, circulatory collapse, respiratory failure and death.

Skin Contact: Results in drying and cracking which can lead to secondary infections and dermatitis. Dermal absorption causes many of the symptoms of inhalation.

Ingestion: Affects the brain, lungs, kidneys, gastrointestinal tract, eyes and respiratory system and can cause coma, blindness and death.

Chronic Effects/Carcinogenicity: None

IARC - No.

NTP - No.

OSHA - No.

Reproductive Information: Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Methanol (Methyl Alcohol).
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Teratology (Birth Defect) Information: Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Methanol (Methyl Alcohol).
Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Methanol (Methyl Alcohol).

Section 4: First Aid Measures - In all cases, seek qualified evaluation.

Eye Contact: Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.
Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.
Skin Contact: Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops.
Ingestion: Dilute immediately with water or milk. Induce vomiting. Call a physician.

Section 5: Fire Fighting Measures

Flash Point: approximately 11°C	Method Used: CC
LFL: 7% (Methanol)	UFL: 36% (Methanol)

Extinguishing Media: Use water spray, dry chemical, alcohol foam, or carbon dioxide for extinguishing the surrounding fire. Water spray can be used to dilute spills to non-flammable mixtures.

Fire & Explosion Hazards: Moderate explosion hazard and dangerous fire hazard when exposed to heat, sparks and open flames. Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Sensitive to static discharge.

Fire Fighting Instructions: Vapors can flow along surfaces to distant ignition source and flash back. Use water spray to blanket fire, cool fire exposed containers, and to flush non-ignited spills or vapors away from fire.

Fire Fighting Equipment: Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Section 6: Accidental Release Measures

Remove all sources of ignition. Contain spill. Do not flush to sewer. Absorb with suitable inert material (vermiculite, dry sand, etc) and place in a chemical waste container for proper disposal in an approved waste disposal facility. Ventilate area of spill. Have extinguishing agent available in case of fire. Use non-sparking tools and equipment. Dispose of in accordance with local regulations.

Section 7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Store in secure, flammable storage area away from all sources of ignition. Empty containers may be hazardous since they retain product residues.

Safety Storage Code: Flammable

Section 8: Exposure Control/Personal Protection

Engineering Controls: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limit.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved atmosphere supplied respirator must be worn.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

Section 9: Physical and Chemical Properties

Appearance: Clear, amber liquid	pH: N/A
Odor: Characteristic Alcohol	Boiling Point(°C): Approximately 64.5
Solubility in Water: Infinite	Melting Point(°C): Approximately -98
Specific Gravity: Approximately 0.8	Vapor Pressure: N/A

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatibility: Strong oxidizing agents such as Nitrates, Perchlorates or Sulfuric Acid, heat, sparks, open flame. Will attack some forms of plastics, rubber and coatings. May react with metallic aluminum and generate hydrogen gas.

Hazardous Decomposition Products: Acid and irritating fumes, including toxic oxides of carbon, when heated to decomposition.

Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

LD50, Oral, Rat: (Methanol) 5628 mg/kg, details of toxic effects not reported other than lethal dose value .

Section 12. Ecological Information

Ecotoxicological Information: Methanol has slight acute and chronic toxicity to aquatic life.

Chemical Fate Information: Methanol is slightly persistent in water, with a half-life of between 2 to 20 days.

Section 13. Disposal Considerations

Do not flush to sewer. Absorb with suitable inert material (vermiculite, dry sand, earth) and place in a chemical waste container for proper disposal in an approved waste disposal facility for incineration in a chemical incinerator equipped with scrubber and afterburner. Ventilate area of spill. Have extinguishing agent available in case of fire. Eliminate all sources of ignition. Use non-sparking tools and equipment. Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

Part Numbers: 5488-32, P-108 100ML, P-108 500ML

D.O.T. Shipping Name: Methanol Solution

D.O.T. Hazard Class: 3

U.N. / N.A. Number: UN1230

Packing Group: II

D.O.T. Label: 3



Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA Status:These items meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

TSCA Status:All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

Section 302 Extremely Hazardous Substances:Not Applicable.

Section 311/312 Hazardous Categories:Acute, Chronic, Fire: Yes; Pressure, Reactivity: No

Section 313 Toxic Chemicals:Not Applicable.

California: None Reported.

Pennsylvania: Methanol (Methyl Alcohol) is listed as an Environmental Hazard on the state's Hazardous Substances List. Methanol (Methyl Alcohol) is listed as an Environmental Hazard on the state's Hazardous Substances List.

RCRA Status: U154,U154

CERCLA Reportable Quantity: Methanol (Methyl Alcohol) - 5,000 pounds. Methanol (Methyl Alcohol) - 5,000 pounds.

WHMIS: B-2: Flammable and Combustible Material. Flammable Liquid. D-2B: Poisonous and Infectious Material. Materials causing other toxic effects - Toxic Material.



Section 16. Other Information

NFPA Ratings:

Health: 1

Flammability: 3

Reactivity: 0

Special Notice Key:None

HMIS Ratings:

Health: 1

Flammability: 3

Reactivity: 0

Protective Equipment:B (Protective Eyewear, Gloves)

The above information is believed to be accurate and represent the best information currently available to us, but does not represent any warranty expressed or implied of the properties of the product. User should make their own investigation to determine the suitability of the information for their particular purpose.

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