

MATERIAL SAFETY DATA SHEET

Revision #: 02

Section 1 - Product Identification & Use

Product Name: **Advance Pine X**
WHMIS Classification: Class D2B
TDG Classification: Not Regulated
Manufacturer: Advance Chemicals Ltd.
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Section 2 - Hazardous Ingredients

Hazardous Components	%(w/w)	C.A.S. No.	LD ₅₀ & LC ₅₀
Pine oil	10-30	mixture	oral, rat 4500mg/kg
Isopropanol	10-30	67-63-0	oral, rat 5000mg/kg
Potassium hydroxide	1-5	1310-58-3	oral, rat 1.23g/kg
Distilled tall oil	3-5	8002-26-4	no data found

Section 3 - Physical Data

Physical state: liquid
Liquid density: 0.99 g/mL
pH: 7.0 - 8.5 @ 20°C
Vapour pressure: no data
Odour & Appearance: The product is a clear, brown liquid with a distinct pine odour.

Boiling point: no data found
Freezing point: no data found
Solubility in water: 100%
Evaporation rate: no data found

Section 4 - Fire or Explosion Hazard

Flammability: No data found
Extinguishing media: Take care not to splash the product. Wear full chemical protective clothing. Use an extinguishing media for surrounding the fire, or all-purpose foam by manufacturer's recommended techniques for large fires. An alcohol type foam or carbon dioxide extinguisher may also be used. Use water to cool fire exposed containers to prevent vapour build-up and rupture. Water may also be used to flush spills away from dangerous exposures.
Unusual Fire & Explosion Hazards: No data found.
Hazardous Combustion Products: No data found.

Section 5 - Reactivity Data

Stability: Stable.
Incompatible substances: No data found.
Polymerization: Will not occur.
Conditions to Avoid: No data found.
Hazardous Combustion Products: No data found.
Materials to Avoid: Avoid contamination with alkalis.

Section 6 - Toxicological Properties

Acute Toxicity: No information available.
Carcinogenicity: No data found.
Inhalation: Irritation of the throat and nasal passages may result from inhaling mists of this product.
Skin contact: Contact with this product solution may cause slight irritation.
Eye contact: May cause slight irritation.
Ingestion: May cause irritation.

Section 7 - Preventative Measures

Personal Protective Equipment: Avoid contact with skin and eyes. Wear chemical protective gloves, goggles and face shield, rubber apron and boots. Eye wash fountains and safety shower facilities should be provided nearby for emergency use.
Respiratory protection: Use respirator if using for prolonged periods of time.
Ventilation Requirements: Local exhaust ventilation will be necessary.
Action to take for spills & leaks: Wear chemical protective clothing, rubber gloves and suitable respiratory protection. Small spills should be wiped up with absorbent material and disposed of in government approved waste containers. The spill area may be flushed with large quantities of water. Larger spills should be contained by diking with sand, soil or other absorbent, non-combustible material, then transferred into approved waste containers for proper disposal. Do not allow spilled, or waste

product to flow into waterways. Keep product out of sewers, storm drains, surface run-off water and soil. Restrict access to non-protected personnel. Comply with all government regulations on spill reporting, and handling and disposal of waste.

Disposal methods: Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, provincial and local regulatory agencies to ascertain proper disposal procedures.

Note: Empty containers can have residues, gasses and mists, and are subject to proper waste disposal as mentioned above.

Storage & Handling Precautions: Harmful if swallowed. Causes eye, skin and respiratory irritation. Avoid contact with eyes and repeated contact with skin and clothing. Do not ingest. Keep container tightly closed when not in use. Store upright in a cool, dry, well-ventilated place away from incompatible materials. Do not use pressure to empty container. Wash thoroughly after handling. Use with adequate ventilation.

Repair and Maintenance Precautions: Do not cut, grind, weld or drill in, on or near this container.

Section 8 - First Aid Measures

If inhaled: Remove victim to fresh air. Give artificial respiration if not breathing. Get immediate emergency medical attention. Keep patient warm and at rest.

In case of eye contact: Immediately flush eyes with clean water for at least twenty (20) minutes, lifting the upper and lower eye lids to ensure complete flushing action of the eyeball. Get immediate emergency medical attention.

In case of skin contact: Immediately flush skin with plenty of clean running water for at least twenty (20) minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Launder clothes before re-use.

In case of ingestion or swallowing: If victim is conscious, dilute stomach contents by giving large amounts of water or milk. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious victim. GET IMMEDIATE EMERGENCY MEDICAL ATTENTION.

Emergency Medical Care: Sodium hydroxide eye burns often go in three stages. An acute stage where early damage is sustained. A reparation stage when the eye begins to heal. Then a stage of late complications when a relapse may occur with more severe damage. Follow up care is essential.

Section 9 - Preparation Information

Advance Chemicals Limited expressly disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided. The information contained herein is offered only as a guide to the handling of this specific product, and has been prepared in good faith by technically knowledgeable personnel. This M.S.D.S. is not intended to be all-inclusive, and the manner and conditions of use may involve other and additional considerations.

Revised: 12 July 2004; 24 January 2007