

SAFETY DATA SHEET

PRODUCT : POLYURETHANE TOP COAT CLEAR

DATE:24/11/2020

VERSION: 1.2

1. PRODUCT IDENTIFICATION

Product name: Polyurethane finish Clear

Chemical name: Paint

Chemical family: Acrylic

2.COMPOSITION /INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NO	CONCENTRATION	RISK PHRASES
BUTYL ACETATE	123-86-4	5-8%	R36/38,43,51,53
POLYHYDROXYL ACRYLATE	103597-45-1	60-65%	R10,R20/21/22
XYLENE	1330-20-7	5-8%	R10,R20/21/22

3. HAZARD IDENTIFICATION OF THE PRODUCT

HEALTH HAZARDS

Acute Overexposure:

Excessive vapor concentration in air, especially in confined spaces, may cause asphyxiation. Excessive inhalation of vapors can cause nasal, throat, and respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.

Notice: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful.

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Cool containers to prevent pressure buildup. Use fog nozzles if water is used.

Do not breathe vapors or mists. Wear a positive pressure supplied air respirator (NIOSH/MSHA TC-19C) while mixing activator with paint or clear, during application and until all vapors and spray mists are exhausted.

Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Aspiration of material into the lungs may cause chemical pneumonitis, which can be fatal.

Conditions to Avoid: Keep away from heat, sparks, electrical equipment and open flame.

Incompatibility (materials to avoid): Strong oxidizers

Unusual Fire and Explosion Hazards: When heated above the flash point, emits flammable vapors. Hazardous Decomposition Products: Oxides of Carbon

Hazardous Polymerization: Will not occur.

Eye contact with liquid or vapor causes severe irritation, redness, tearing, blurred vision, and a sensation of seeing halos around light.

Prolonged skin contact may lead to extraction of natural oils with resultant dry skin, cracking, irritation and dermatitis. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Aspiration of material into the lungs may cause chemical pneumonitis, which can be fatal.

Chronic Overexposure:

Health studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids and vapors should be minimized. Prolonged or continuous inhalation of vapors may result in delayed lung damage. Repeated or prolonged inhalation of vapor or spray mist may cause liver and kidney damage. Repeated inhalation of vapor or spray mist may cause red blood cell and leucocytes disorders which may result in an anemic condition.

4. FIRST AID MEASUREMENT

Inhalation: Remove to fresh air. Give artificial respiration if necessary. Consult a physician.

Eye Contact: Flush with water for at least 15 minutes. Consult a physician.

Skin Contact: Wash with soap and water. If irritation persists, consult a physician.

Ingestion: DO NOT induce vomiting. Call a physician immediately. Have the names of the ingredients available.

5. FIRE & EXPLOSION DATA

Water spray may be ineffective on fire but can protect fire fighters and cool containers to prevent pressure buildup. Use fog nozzles if water is used.

Extinguishing Media: Carbon dioxide (CO₂), Foam, extinguishing powder or water spray.

Fire Fighting Procedures: During fire-fighting respirator with independent air-supply and airtight garment is required.

Unusual Fire/Explosion: None

Hazard: Burning releases oxides of carbon.

Conditions to avoid: Keep away from heat, sparks, electrical equipment and open flame.

6. SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Remove all sources of ignition. Isolate from oxidizers. Ventilate area. Remove with inert materials and non-sparking tools.

7. STORAGE AND HANDLING PRECAUTIONS

Handling: Keep away from heat. Keep away from source of ignition– No smoking
Do not breathe vapour. Avoid contact with skin and eyes.

Storage: Keep container dry and tightly closed in a cool and well ventilated place

If the mixture of part A and B are allowed to remain in the mixing

Vessel beyond the pot life deadline, reaction resulting to product gelation will occur.

WARNING: Provide sufficient air exchange and/or exhaust in work rooms.

Exhaust ventilation necessary if product is sprayed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION INFORMATION

Ventilation: The work place should be well ventilated.

Protective Gloves: Gauntlet type of gloves of nitrile rubber or butyl rubber is recommended. For short time contact PVC is suitable.

Eye Protection: Wear safety goggles.

Respiratory Protection: Suitable respiratory equipment required in insufficient ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of charcoal filter and particulate filter is recommended.

Other Protective Equipment: Wear suitable protective clothing for skin and body Protection.

Hygiene: Keep away from foodstuffs, drinks, and tobacco. Wash hands before breaks and at the end of workday. Keep working clothes separately.

Take off all contaminated clothing immediately.

Other protective equipment such as eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.

9. PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point: 250°F – 300°F

Specific Gravity: 0.9–1.0

Volume solids: 40–42%

Appearance: Viscous Liquid

Gloss level: High gloss

Thinner: THN/1002

Mix ratio: 5:1 (by volume)

Viscosity: 50–55KU

Theoretical coverage: 10 m²/lit @ 100 microns W.F.T and 42 microns D.F.T

Method of Application: Airless spray, Air spray, Brush or Roller.

10. STABILITY AND REACTIVITY

Hazardous reactions: Exothermic reaction with amines and alcohols; reacts slowly with water forming CO₂, in closed container risk of bursting owing to increase of pressure.

Hazardous decomposition products: No hazardous decomposition products when stored and handled correctly.

11. TOXICOLOGICAL INFORMATION

Toxicological studies.

Result not available.

Information based on experience: Human beings: vapour acts as eye and respiratory tract irritant. Vapour can cause depression of the central nervous system (headache & sleep disturbance).

12. ECOLOGICAL INFORMATION

Do not allow to escape into waterways, waste water or soil.

Result not available.

13. DISPOSAL CONSIDERATION

Do not allow into drains or water courses. Wastes and empty containers should be disposed off in accordance with regulations under the control of pollution agency and environmental protection agency.

Disposal of paints and thinners is controlled by National regulations. Please refer to Local office for current statutory regulations.

14. OTHER INFORMATION

Risks Phrases

R10 Flammable

R20 Harmful by inhalation.

R36/37/38 irritant to eyes, respiratory system and skin.

R42/43 may cause sensitization by inhalation and skin contact

Safety Phrases

S28 After contact with skin wash immediately with plenty of soap and water.

S37/39 Wear suitable gloves and eye protection.

S61 Avoid release to the environment. Refer to instruction on safety data sheet.

15. SAFETY PRECAUTIONS

Company Disclaimer:

The information provided in this safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release. The information is given without acceptance of liability for loss or damage attributed to reliance thereon as conditions of use lie outside our control. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.