ISO 9001:2015, 14001:2015, 45001:2018 & RoHS Certified

SMG CoateX

A Chemistry For Performance

Manufacturer of Speciality Chemicals & Coating

Office: Second Shree ji Bungalow, Tehsil Road, Nathdwara-313301(Raj.)
Unit : N.H. 8, Industrial Area, Gunjol, Nathdwara-313301(Raj.) INDIA
Website : www.smgcoatex.com, E-mail : info@smgcoatex.com
Help Desk No. : +91-7300498888

ELECTROPHORETIC LACQUER	MATERIAL SAFETY DATA SHEET

MSDS

1. Chemical product and general information

- **Product Name** _____ as per Solids & Quality**.**
- **Product Category** – Electrophoretic Lacquers.
- **Description –** Epoxy modified acrylic Copolymer Water Soluble**.**
- **Manufacturer's Name –** SMG CoateX
- **Address –**
  Office: Second Shree ji Bungalow, Tehsil Road, Nathdwara-313301
  Unit: N.H.8, Industrial Area, Gunjol, Nathdwara-313301(Raj.) INDIA
- **Emergency Telephone:** + 91 730049 8888
- **E mail -** info@smgcoatex.com
- **MSDS Issue Date -** 10/06/2024

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2. Hazards Identification

GHS Classification

Flammable Liquids Hazard Category 3
Specific Target Organ Toxicity (STOT) Single Exposure Hazard Category 3

GHS Labelling

Signal Word

WARNING

Hazard Statements

Flammable liquid and vapour
May causes drowsiness or dizziness

Precautionary Statements
Prevention
Keep away from heat, sparks and open flame. -No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion – proof electrical, ventilating, lighting and other equipment. Use only non-sparking tools. Take precautionary measure against static discharge. Wear protective gloves and eye/face protection. Use only outdoors or in a well-ventilated area. Avoid breathing vapours or spray mist.

Response
IF ON SKIN (or hair). Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.
In case of fire, use the following media for extinction water spray or fog, alcohol foam, Carbon dioxide, dry chemical.

Storage
Store in well-ventilated place. Keep cool. Keep container tightly closed Store locked up.

Disposal
Dispose of contents/container in accordance with local and national regulations.

OTHER HAZARDS
Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS

Component/CAS No.	%
1-Methoxy-2-propanol 107-98-2	34-36
2-Methoxy-1-propanol 1589-47-5	<0,18

The balance of the ingredients in this product is proprietary, non-hazardous and/or not required to be listed.
Additional GHS classification or other information may be included in this section but has not been adopted by other national authorities.

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4. FIRST-AID MEASURES

Eye Contact:
Rinse immediately with plenty of water for at least 15 minutes.

Skin Contact:
Wash immediately with plenty of water and soap.

Ingestion:

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician.
Never give anything by mouth to an unconscious person.
Inhalation:
Remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there Are persistent symptoms.

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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:
Use water spray, alcohol foam, carbon dioxide or dry chemical to extinguish fires. Water Stream may be ineffective.

Unsuitable Extinguishing Media:
strong water jet.

Protective Equipment:
Firefighters, and others exposed, wear self-contained breathing apparatus.

Special Hazards:
Keep containers cool by spraying with water if exposed to fire.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions:
Where exposure level is not known, wear approved, positive pressure, self-contained respirator. Where exposure level is known, wear approved respirator suitable for level of exposure. In addition to the protective clothing/equipment in Section 8 (Exposure Controls/Personal Protection), wear impermeable boots.

Methods for Cleaning Up:
Cover spills with some inert absorbent material, sweep up and place in a waste disposal container. Flush spill area with water. Remove sources of ignition.

Environmental Precautions:
None known

References to other sections:
See Sections 7, 8 and 13 for additional information.

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7. HANDLING AND STORAGE

Handling
Precautions: Keep away from heat, sparks and open flame No smoking. Keep container tightly closed Ground Bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting and other equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye/face protection. Use only outdoors or in a well-ventilated area. Avoid breathing vapours or spray mist.

Special Handling Statements: Provide good ventilation of working area (local exhaust ventilation if necessary) During processing and handling of the product, comply with the indicative occupational exposure limit values. Containers must be bonded and grounded when pouring or transferring material.

Storage
Areas containing this material should have fire safe practices and electrical equipment in accordance with applicable regulations and/or guidelines. Standards are primarily based on the material's flashpoint, but may also take into account properties such as miscibility with water or toxicity. All local and national regulations should be followed. Store in a cool, dry, well ventilated place and keep container tightly closed. Keep away from heat sources and direct sunlight. Keep away from sources of ignition refrain from smoking. Take precautionary measures against electrostatic loading- earthing necessary during loading operations. Vapours may form explosive mixtures with air.

Storage Temperature: Store at 0-25 °C

Reason: Quality

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit(s)

1-Methoxy-2-propanol 107-98-2

Malaysia OEL	100 ppm (TWA)
	369 mg/m³ (TWA)
New Zealand	100 ppm (TWA)
	369 mg/m³ (TWA)
	150 ppm (STEL)
	553 mg/m³ (STEL)
Indonesia OEL	100 ppm (TWA)
	150 ppm (STEL)
Taiwan OEL	100 ppm (TWA)
	369 mg/m³ (TWA)
	125 ppm (STEL)
	461.25 mg/m³ (STEL)
ACGIH (TLV):	150 ppm (STEL)
	100 ppm (TWA)

Engineering Measures:
Engineering controls are not usually necessary if good hygiene practices are followed.

Respiratory Protection
For operations where Inhalation exposure can occur use an approved respirator Recommendations are listed below. Other protective respiratory equipment may be used based on user's own risk assessment.

Recommended
Full Face Mask with organic vapour cartridge, Type A filter (BP>65°C)

Eye protection
Wear eye/face protection such as chemical splash proof goggles or face shield

Skin Protection:
Avoid skin contact. Wear Impermeable gloves and suitable protective clothing. Since this product is absorbed through the skin, care must be taken to prevent skin contact and contamination of clothing

Hand protection:
Wear protective gloves. Recommendations are listed below. Other protective materials may be used based on user's own risk assessment. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred Replace gloves immediately when ton or any change in appearance (dimension, colour flexibility etc.) is noticed.

Gloves for repeated or prolonged exposure non exhaustive list:
Polyethylene Nylon (PE) thickness. 0.062 mm, break through time: > 480 min

Gloves for short term exposure/splash protection non exhaustive list:
Nitrile rubber (NBR) thickness: 0.38 mm, break through time: up to 120 min

The chemical resistance depends on the type of product and amount of product on the glove. Therefore, gloves need to be changed when in contact with chemicals.

Not suitable gloves non exhaustive list:
Natural rubber (NRL), thickness: 0.12 mm

Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing. Use PE gloves as under gloves for difficult situations like for instance: high exposure, unknown composition or unknown properties of the chemicals

Additional Advice:
Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water it is recommended that a shower be taken after completion of work shift especially if significant contact has occurred. Work clothing should then be laundered prior to reuse. Street clothing should be stored separately from work clothing and protective equipment. Work clothing and shoes should not be taken home

9.INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Colour:	Yellowish – orange (Pale Yellow)
Appearance:	Semi liquid
Odour:	Organic solvent
Odour Threshold:	See Section 8 for exposure limits.
pH:	Not available
Melting Point:	Not applicable
Boiling Point:	100 - 200 °C
Flash point:	33 °C DIN EN ISO 1523
Evaporation Rate:	Not available
Flammable Limits (% By Vol):	Lower 17 Upper 11.5 (values for solvent)
Vapour Pressure:	14 hPa 20 °C (value for solvent)
Vapour density:	Not available
Specific Gravity/Density: -	1.04 g/cm³ DIN EN ISO 2811-2 @ 20 °C
Solubility in Water:	Partially miscible
Partition coefficient (n-octanol /water):	Not available

Auto ignition temperature: >270 °C (value for solvent)
Decomposition Temperature: Not available
Viscosity (Kinematic): Not available
Viscosity (Dynamic): 18000 – 35000 mPa.s @ 23 °C DIN EN ISO 3219
Flammability: Not available
Oxidizing Properties: No

OTHER INFORMATION
Fat Solubility (Solvent-Oil): Not available
Percent Volatile (% by wt.): 34-36 (solvent)
Solids Content: 63% DIN 55671
Saturation in Air (% By Vol.): Not available
Acid Number (mg KOH/g): Not available
Hydroxyl Value (mg KOH/g): Not available
Volatile Organic Content (1999/13/EC): -36%

10. STABILITY AND REACTIVITY

Reactivity: No information available

Stability: Stable

Conditions to Avoid: Evolution of flammable mixtures possible in air or when heated above flash point and/or during spraying or misting.

Polymerization: Will not occur

Conditions to Avoid: None known

Materials to Avoid: Strong oxidizing agents, strong acids and alkalis.

Hazardous Decomposition Products: Carbon dioxide,
Carbon monoxide (CO)

11. TOXICOLOGICAL INFORMATION
Likely Routes of Exposure: Oral, Skin, Eyes, Respiratory System

HEALTH HAZARD INFORMATION

Acute toxicity oral: Not Classified.
Acute toxicity-dermal: Not Classified.
Acute toxicity Inhalation: Not Classified
Skin corrosion/irritation: Not Classified.
Serious eye damage/eye irritation: Not Classified.
Respiratory sensitization: Not Classified.
Skin sensitization: Not Classified
Carcinogenicity: Not Classified
Germ cell mutagenicity: Not Classified
Reproductive toxicity: Not Classified.
Specific target organ toxicity (single exposure): May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure): Not Classified

Aspiration hazard: Not Classified.

PRODUCT TOXICITY INFORMATION

ACUTE TOXICITY DATA

oral	rat	Acute LD50	>2000 mg/kg
dermal	rabbit	Acute LD50	> 2000 mg/kg
Inhalation	rat	Acute LD50 4 hr	>5 mg/l (Dust/Mist)

LOCAL EFFECTS ON SKIN AND EYE

Acute Irritation	dermal	Not irritating
Acute Irritation	eye	Not irritating

ALLERGIC SENSITIZATION

Sensitization	Skin	No data
Sensitization	Respiratory	No data

GENOTOXICITY
Assays for Gene Mutations
Ames Salmonella Assay No data

OTHER INFORMATION
The product toxicity information above has been estimated.

HAZARDOUS INGREDIENT TOXICITY DATA

1-Methoxy-2-propanol has acute oral (rat) and acute dermal (rabbit) LD50 values of 3,739 mg/kg and 13 g/kg, respectively. The acute 6-hour inhalation LC50 (rat) value is > 7000 ppm (31.50 mg/L/4hr). Direct contact with 1-Methoxy-2-Propanol can cause mild skin and eye irritation. Exposure of 1-methoxy-2-propanol to animals via oral, dermal and inhalation routes have caused central nervous system effects. Inhalation overexposure has also been shown to cause minor effects on the liver, kidneys and lungs, and irritation to the eyes, and has been shown to cause fetotoxic effects. Repeat dermal exposure studies with 1-methoxy-2-propanol had shown evidence of kidney damage in fatally poisoned animals.

2-Methoxy-1-propanol has acute oral (rat) LD50, acute dermal (rabbit) LD50 and acute 6-hour inhalation LC50 (rat) values of >5 g/kg, >10 g/kg, and > 7000 ppm (31.59 mg//4hr), respectively, based on a similar isomer. Direct contact can cause moderate skin and severe eye irritation. 2-Methoxy-1-propanol is fetotoxic and teratogenic without maternal toxicity, based on an inhalation study of rabbits exposed to this substance.

12. ECOLOGICAL INFORMATION
This material is not classified as dangerous for the environment. The ecological assessment for this material is based on an evaluation of its components

ECOTOXICITY
Not available

BIOACCUMULATIVE POTENTIAL
Not available

PERSISTENCE AND DEGRADABILITY

Not available

MOBILITY IN SOIL
Not available

OTHER ADVERSE EFFECTS

HAZARD TO THE OZONE LAYER
Not available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods
The company encourages the recycle and reuse of products and packaging, where possible and permitted.

Product disposal
When recycle or reuse is not possible, the company recommends that our products, especially when classified as hazardous, be disposed of at approved facilities. All local and national regulations should be followed.

Packaging disposal
Handle contaminated packages in the same way as the product itself. Disposal of emptied and cleaned packaging must be made in accordance with applicable local and national regulations.

Disposal-relevant information
Do not release directly or indirectly to surface water, ground water, soil or public sewage system.

14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

Australia (ADG)

Dangerous Goods? X	
PROPER SHIPPING NAME:	RESIN SOLUTION
Hazard Class:	3
Packing Group:	III
Transport Label Required:	Flammable liquid
HAZCHEM Code:	3Y

IMO

Dangerous Goods? X	
UN PROPER SHIPPING NAME	RESIN SOLUTION
Transport Hazard Class:	3
UN Number	UN1866
Packing Group:	III
Transport Label Required.	Flammable liquid

ICAO/IATA

Dangerous Goods?	X
UN PROPER SHIPPING NAME	RESIN SOLUTION
Transport Hazard Class:	3
UN Number	UN1866
Packing Group:	III
Transport Label Required.	Flammable liquid

15. REGULATORY INFORMATION
THAILAND
DIW Type 1-4 Hazardous substance (except Annex 5.6): Not applicable

PHILIPPINES
Priority Chemicals: Not applicable
Dangerous Drugs Table 1: Not applicable
Dangerous Drugs Table II: Not applicable

TAIWAN
Toxic Chemical Substances: Not applicable

OTHER INFORMATION: -
Malaysia: Safety Data Sheet complies with the Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulation 2013 & Industry Code of Practice on Chemicals Classification and Hazards Communication 2014 by Department of Occupation.

16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H302 + H312 + H332	Harmful if swallowed, in contact with skin or if inhaled
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.