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 Material Safety Data Sheet
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 1 Product Identification

Tradename:
 SCOTCHKOTE 306 LIQUID EPOXY, PART A
 Product ID:
 80-6108-7262-6
 Intended Use of Product:
 Part A of a 2 Part Epoxy Coating
 Division:
 CORROSION PROTECTION PRODUCTS

 2 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER	25068-38-6	60 - 70
TOLUENE	108-88-3	10 - 15
TITANIUM DIOXIDE	13463-67-7	5 - 10
IRON HYDROXIDE OXIDE	20344-49-4	1 - 5
MAGNESIUM SILICATE TALC	14807-96-6	1 - 5
ORGANOPHILIC CLAY 27	71011-26-2	1 - 5
QUARTZ SILICA	14808-60-7	1 - 2

NOTE:

Each percentage is expressed as the ratio of the weight of the ingredient to the weight of the controlled product.

3 Hazards Identification

Critical Hazards:

Flammable liquid and vapour.

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

May be absorbed through skin and cause target organ effects.

May be absorbed following inhalation and cause target organ effects.

May be absorbed following ingestion and cause target organ effects.

WARNING: Contains a chemical which can cause cancer. (13463-67-7) (IARC human carcinogen 2B).

WARNING: Contains a chemical which can cause cancer. (14808-60-7) (NTP known human carcinogen, IARC human carcinogen 1, Calif. Proposition 65)

TOLUENE (108-88-3): can cause birth defects or other reproductive harm.

TALC (14807-96-6) has been shown to cause fibrosis of the lungs.

See Sections 7 and 11 for further information.

4 First Aid Measures

Instructions for Eye Contact:

Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

Instructions for Skin Contact:

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. If signs/symptoms develop, get medical attention. Wash contaminated clothing and clean shoes before reuse.

Instructions for Inhalation:

Remove person to fresh air. If signs/symptoms develop, get medical attention.

Instructions for Ingestion:

Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

5 Fire Fighting Measures

Flash point:

36.11 C TCC

Lower Explosive Limit (%): 1 % by volume
 Upper Explosive Limit (%): 7 % by volume
 Autoignition temperature: Not Available

Suitable Extinguishing Media:

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

Exposure Hazards during Fire:

Closed containers exposed to heat from fire may build pressure and explode. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

Combustion Products from Fire:

Aldehydes - During Combustion;
 Carbon monoxide - During Combustion;
 Carbon dioxide - During Combustion;
 Oxides of Nitrogen - During Combustion;

Fire Fighting Procedures:

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

Water may be used to blanket the fire.

Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

NFPA: Health	2
NFPA: Fire	3
NFPA: Reactivity	0
NFPA: Unusual Reaction Hazard	none

6 Accidental Release Measures

Personal Precautions:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill.

Spill Response:

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Contain spill. For

larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Cover spill area with a fire-extinguishing foam. An aqueous film forming foam (AFFF) is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove

a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

7 Handling and Storage

Storage Requirements:

No data available.

Incompatible Materials:

Store out of direct sunlight.

Store away from heat;

Store away from acids;

Store away from oxidizing agents.

Sparks and/or Flames;

Reducing agents;

Ventilation:

Keep container in well-ventilated area.

Fire Prevention:

Ground containers securely when transferring contents. Wear low static or properly grounded shoes. Do not spray near flames or sources of ignition.

Explosion Prevention:

Flammable liquid and vapour. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition.

Static Prevention:

Avoid static discharge.

Use Instructions:

Contents may be under pressure, open carefully. For industrial or professional use only. Avoid contact with oxidizing agents. Keep container tightly closed.

8 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:

Avoid eye contact with vapours, mists, or spray.

Avoid eye contact with dust or airborne particles.

The following should be worn alone or in combination, as appropriate, to prevent eye contact:

Safety glasses with side shields

Indirect vented goggles;

Hand Protection:

The following glove material(s) are recommended:

neoprene;
nitrile rubber;

Skin Protection:

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Respiratory Protection:

Avoid breathing of vapours, mists or spray.

Avoid breathing of vapours created during the cure cycle.

Avoid breathing of dust created by cutting, sanding, grinding or machining.

Use positive supply air respirator in confined areas.

Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations:

Half facepiece or fullface air-purifying respirator with organic vapour cartridges and N95 particulate prefilters;

Ingestion (Prevention):

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

Keep out of the reach of children.

Recommended Ventilation:

Provide appropriate local exhaust ventilation at transfer points.

Provide appropriate local exhaust ventilation on open containers.

Provide ventilated enclosure for heat curing.

Provide appropriate local exhaust for cutting, grinding, sanding or machining.

Curing enclosures must be exhausted to outdoors or to a suitable emission control device.

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment.

Ingredient Exposure Data

4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (25068-38-6)

LD50 (rat, oral) 11400 mg/kg

LD50 (dermal, rabbit) 23.4 g/kg

LC50 (rat, inhalation/4 hours) > 791 mg/m3

Exposure Limits

No data available.

TOLUENE (108-88-3)

Specific Ingredient Data

LC50 (female rat, inhalation/4 hours vapour): 19.0 mg/l

LD50 (rat, oral) 636 mg/kg

LD50 (dermal, rabbit) 14100 uL/kg

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

ACGIH: TWA 50 ppm (skin contact contributes to exposure) (Table A4)

ACGIH: TWA 188 mg/m3 (skin contact contributes to exposure)
(Table A4)

ACGIH: TWA 75 ppm (skin contact contributes to exposure)

TITANIUM DIOXIDE (13463-67-7)

LD50 (rat, oral) > 24000 mg/kg

LC50 (rat, inhalation/4 hours) > 6820 mg/m3

Exposure Limits

ACGIH: TWA 10 mg/m3

CMRG: TWA 5 mg/m3

IRON HYDROXIDE OXIDE (20344-49-4)

LD50 (rat, oral) No data available.

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

No data available.

MAGNESIUM SILICATE TALC (14807-96-6)

LD50 (rat, oral) No data available.

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

ACGIH: TWA 2 mg/m3 (Respirable) (Table A4)

CMRG: TWA 0.5 mg/m3 as respirable dust (specific form)

ORGANOPHILIC CLAY 27 (71011-26-2)

Specific Ingredient Data

No data available.

LD50 (rat, oral) No data available.

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

No data available.

QUARTZ SILICA (14808-60-7)

LD50 (rat, oral) No data available.

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

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ACGIH: TWA 0.025 mg/m3 (Respirable) (Table A2)

9 Physical and Chemical Properties

Physical form,Color,Odour:	Liquid; Green; hydrocarbon odour;
Odour Threshold:	No data available.
pH:	Not Available
Boiling point/boiling range:	110.56 - 260 C
Melting point/melting range:	Not Available
Vapour pressure:	Not Available
Water Solubility:	Nil
Specific gravity:	1.26 Water=1
Vapour density:	>= 1 Air=1
Volatile organic compounds:	159 gms/liter EPA24C DETAILS: 1.33 lb/gal Calculated for Part A
	194 gms/liter EPA24C

Evaporation rate:	DETAILS: 1.62 lb/gal
Viscosity:	(Results for mixture of Parts A and B as reacted.)
Percent Volatile:	>= 1 BuOAc=1
	No data available.
	12.71 % by weight
	18.41 % by volume

10 Stability and Reactivity

Conditions to Avoid:

- Store away from heat;
- Store out of direct sunlight.
- Sparks and/or Flames;

Materials to Avoid:

- Strong oxidizing agents;
- Reducing agents;
- Store away from acids;

Hazardous Decomposition:

- Aldehydes - During Combustion;
- Carbon monoxide - During Combustion;
- Carbon dioxide - During Combustion;
- Oxides of Nitrogen - During Combustion;

Stability and Reactivity:

Stable. Hazardous polymerization will not occur.

11 Toxicological Information

Effects from Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Effects from Skin Contact:

Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

May be absorbed through skin and cause target organ effects.

Effects from Inhalation:

Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May be absorbed following inhalation and cause target organ effects.

During grinding, scraping, sanding:

Silicosis: Signs/symptoms can include breathlessness, weakness, chest pain, persistent cough, increased amounts of sputum, and heart disease.

Pneumoconiosis: Sign/symptoms can include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

Effects from Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting.

May be absorbed following ingestion and cause target organ effects.

Sensitization Information:

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Carcinogenicity:

WARNING: Contains a chemical which can cause cancer. (13463-67-7) (IARC human carcinogen 2B).

WARNING: Contains a chemical which can cause cancer. (14808-60-7) (NTP known human carcinogen, IARC human carcinogen 1, Calif.

Proposition 65)

Mutagenicity:

No data available.

Reproductive Effects:

TOLUENE (108-88-3): can cause birth defects or other reproductive harm.

Component Based Information:

TALC (14807-96-6) has been shown to cause fibrosis of the lungs.

Product Based Information:

No data available.

Other Effects & Information:

Central Nervous System (CNS) Depression: Signs/symptoms may include

headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Prolonged or repeated exposure may cause:

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Central Neuropathy: Signs/symptoms may include irritability, memory impairment, personality changes, sleep disorders, and decreased ability to concentrate.

12 Ecological Information

Environmental Data:

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

Special statements for 2001/58/EC:

One or more components of this product have significant known or predicted environmental hazards, but a conservative assessment indicates a low environmental risk. Intended use and proper disposal are unlikely to cause the environmentally hazardous component(s) to enter the environment in quantities or by routes that could cause the adverse environmental impacts.

13 Disposal Considerations

Product as Sold:

Dispose of completely cured (or polymerized) wastes in a sanitary landfill. Incinerate uncured product in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

Product Packaging:

No data available.

Special Instructions:

Since regulations vary, consult applicable regulations or authorities before disposal.

14 Transportation Information

Transportation of Dangerous Goods

TDG Classification:	Regulated Material.
Proper Shipping Name:	RESIN SOLUTION
Class/Division:	3
UN Number:	UN 1866

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Packing Group: II
Special Information:
Contact 3M for more information.

International Dangerous Goods Classification

15 Regulatory Information

WHMIS Classification: B2, D2A, D2B

NOTE:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Product Certifications:

The product on this MSDS, or all its components, is included on the following countries' chemical inventories, as noted:

- TSCA - Toxic Substances Control Act (USA)
- AICS - Australian Inventory of Chemical Substances
- DSL - Domestic Substances List (Canada)
- EINECS - European Inventory of Existing Commercial Chemical Substances

16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:
Deleted Product I.D.'s
Update Tradename

Revised Intended Use of Product

- Section 2 - Composition/Information on Ingredients;
- Section 3 - Hazards Identification - Critical Hazards;
- Section 4 - First Aid Measures;
- Section 5 - Fire Fighting Measures
- Section 6 - Accidental Release Measures;
- Section 7 - Handling and Storage;
- Section 8 - Exposure Controls/Personal Protection;
- Section 9 - Physical and Chemical Properties;
- Section 10 - Stability and Reactivity;
- Section 11 - Toxicological Information;
- Section 12 - Ecological Information - Other Effects and Information;
- Section 13 - Disposal Considerations;
- WHMIS Classification change
- Section 15 - Regulatory Information: Product Certifications

The information in this Material Safety Data Sheet (MSDS) is believed

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---End---