



Armorcoat Supra Part A Resin

SECTION 1 – IDENTIFICATION

GHS product identifier: Armorcoat Supra Part A Resin

Other means of identification: Epoxy Resin

Recommended use of the chemical and restrictions on use: N/A

Supplier's details: VANBERG SPECIALIZED COATINGS
10705 COTTONWOOD ST.
LENEXA, KS 66215
INFORMATION PHONE NUMBER: 913-599-5939

Emergency phone number: 1-800-255-3924

SECTION 2 – HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Acute Toxicity – Dermal 4, Skin Corrosion/Irritant 2B, Eye Damage/Irritation 2B, Acute Toxicity – Oral 4, Acute Toxicity – Inhalation 4

GHS label elements:



Signal Word: Warning

Hazard Statement: Harmful in contact with skin.

Prevention: Wear protective gloves/protective clothing.

Response: If on skin: wash with plenty of soap and water. Call a poison center or doctor/physician if you feel unwell. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician if irritation persists. Wash contaminated clothing before reuse.

Disposal: Dispose of in accordance with federal, state, and local regulations.



Signal Word: Warning

Hazard Statement: Causes eye irritation.

Prevention: Flush eyes thoroughly after eye contact.

Response: If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.



Signal Word: Warning

Hazard Statement: Harmful if swallowed.

Prevention: Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

Response: If swallowed: Call a poison center or doctor/physician if you feel unwell. Rinse mouth.

Disposal: Dispose of in accordance with federal, state, and local regulations.



Signal Word: Warning

Hazard Statement: Harmful if inhaled

Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well ventilated area.

Response: If inhaled: remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

Other hazards which do not result in classification: N/A

Hazards Material Information System (United States):

Health	2
Flammability	1
Physical Hazard	0

Hazard Codes: Minimal Hazard, 1=Slight Hazard, 2=Moderate Hazard, 3=Serious Hazard, 4= Severe Hazard

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Hazardous Components (Chemical Name)	CAS #	Concentration
Reaction products of epichlorohydrin and bisphenol A	25085-99-8	30-60%
Isopropanol	67-63-0	1-10%
Glycidyl neodeconate	26761-45-5	1-10%

SECTION 4 – FIRST AID MEASURES

Description of necessary first-aid measures:

Eye Contact: Remove contact lenses at once.

Immediately flush eyes with large amounts of water or normal saline for at least 30 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. **Prompt medical attention is essential.**

Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a Physician if irritation persists. Wash clothing before reuse. Contaminated Leather Articles, including shoes, cannot be contaminated and should be destroyed to prevent reuse.

Inhalation:

Remove victim to fresh air if effects occur. If not breathing, give artificial respiration. **Get immediate medical attention.**

Ingestion:

Do not induce vomiting. If patient is conscious and can swallow, give two glasses of water (16oz.). **Get immediate medical attention.** Never give anything by mouth to an unconscious or convulsing person.

Most Important symptoms/effects, acute and delayed:

Signs and Symptoms:

Irritation as noted above. Skin sensitization (allergy) may be evidenced by rashes, especially hives.

Aggravated medical conditions:

Preexisting skin and eye disorders may be aggravated by exposure to this product. Preexisting skin and lung allergies may increase the chance of developing increased allergy symptoms from exposure to this product.

Other Health Effects:

Based on animal studies, repeated exposure to components of this product may cause damage to liver, kidney, and respiratory systems. Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.

Indication of immediate medical attention and special treatment needed, if necessary:

Contact a poison control center for additional treatment information. As a precaution, exposure to liquids, vapors, mists, or fumes should be minimized.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing media:

Use alcohol type foam, dry chemical, or CO₂.

Specific hazards arising from the chemical:

Flash Point is 201°F TCC. None Known.

Special protective actions for fire-fighters:

Use water spray to cool fire Exposed surfaces and to protect personnel. If a leak or spill has not ignited, use ER spray to disperse the vapors. Contain the runoff stream. Try to cover liquid spills with foam. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves, and rubber boots), including a positive pressure IOSH approved self-contained breathing apparatus.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Ventilate the area. Avoid breathing vapor. Use self-contained breathing apparatus or supplied air for large spills or confined areas.

Methods and materials for containment and clean up:

Contain spill if possible. Wipe up or absorb on suitable material and pick up with shovels. Do not use sawdust, wood chips, or other cellulosic materials to absorb the spill. Prevent entry into sewers and waterways. Dispose of in accordance with federal, state, and local regulations.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling:

Ground all transfer equipment. Take precautionary measures against static discharge. Handle as an industrial chemical.

Conditions for safe storage, including any incompatibilities:

Ground all transfer equipment. Take precautionary measures against static discharge. Handle as an industrial chemical. Keep container tightly closed when not in use. Practice good caution and personal cleanliness to avoid skin and eye contact. Hold bulk storage under nitrogen blanket. Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Hazardous Components (Chemical Name)	CAS #	PERCENT	EXPOSURE LIMITS	SOURCE
Reaction products of epichlorohydrin and bisphenol A	25085-99-8	30-60	None established	N/A
Isopropanol	67-63-0	1-10	400 ppm PEL/TWA, 400 ppm TLV/TWA 500 ppm TLV/STEL	OSHA ACGIH
Glycidyl neodeconate	26761-45-5	1-10	None established	N/A

Appropriate engineering controls:

N/A

Individual protection measures, such as personal protective equipment:

Respiratory Protection:

Provide adequate ventilation. Avoid breathing of vapors or mists. Airborne concentrations should be kept to lowest levels possible. When exposures are not adequately controlled, use an approved respirator. Selection of air-purifying or positive-pressure supplied air will depend on the specific operation and the potential airborne concentration of material. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

Protective Clothing:

Protective clothing such as uniforms, coveralls, or lab coats must be worn. Launder or dry clean when soiled. Gloves and goggles resistant to chemicals and petroleum distillates required. When handling large quantities, impervious suits, gloves, and rubber boots must be worn.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.): Pigmented, opaque, viscous liquid

Odor: mild odor.

Odor threshold: N/A

pH: N/A

Melting point/freezing point: N/A

Initial boiling point and boiling range: (alcohol) 180

Flash Point: 201° F TCC

Evaporation rate: (alcohol) 2.3

Flammability (solid, gas): N/A

Upper/lower flammability or explosive limits: LEL = 2.0 UEL = 12.7 @ 77 °F

Vapor pressure: Not established
Vapor Density: >1
Relative density (specific gravity): 1.4
Solubility(ies): Partially soluble
Partition coefficient; n-octanol/water: N/A
Auto-ignition temperature: N/A
Decomposition temperature: N/A
Viscosity: N/A

SECTION 10 – STABILITY AND REACTIVITY

Reactivity:

N/A

Chemical stability:

Excess heating over long periods of time degrades the resin.

Possibility of hazardous reactions:

Will not occur by itself, but masses of more than 1 pound of product plus an aliphatic amine will cause irreversible polymerization with considerable heat buildup.

Conditions to avoid:

Avoid exposure to heat, light, flame, or other sources of ignition. Can react vigorously with strong oxidizing agents, strong lewis or mineral acids, and strong mineral and organic base/especially primary and secondary amines. Reaction with some curing agent may produce considerable heat.

Incompatible materials:

N/A

Hazardous decomposition products:

Hazardous combustion products may include intense heat, dense black smoke, carbon monoxide, carbon dioxide, aldehydes, acids, phenolics, water, and hydrocarbon fragments.

SECTION 11 – TOXICOLOGICAL INFORMATION

Likely routes of exposure:

N/A

Symptoms related to the physical, chemical and toxicological characteristics:

Eye Contact:

Irritating and will injure eye tissue if not removed promptly.

Skin Contact:

May cause severe irritation. Has been known to cause allergic skin reaction in humans. Prolonged contact may cause blisters.

Inhalation:

High vapor concentrations are irritating to the eyes and respiratory tract, may cause headaches and dizziness, are anesthetic, and may have other central nervous system effects, including death.

Ingestion:

May be moderately toxic if swallowed.

Delayed and immediate effects and chronic effects from short and long term exposure:

N/A

INGREDIENT NAME	CAS #	%	ACUTE ORAL LD50	ACUTE DERMAL LD50	ACUTE INHALATION LC50
Reaction products of epichlorohydrin and bisphenol A	25085-99-8	30-60	>5.0 g/kg	20.0 g/kg (rabbit)	no deaths in sat'd air, 8 hr
Isopropanol	67-63-0	1-10	4.7 g/kg (rat)	12.7 g/kg (rabbit)	19.0 g/kg (rat)
Glycidyl neodeconate	26761-45-5	1-10	9.6 g/kg (rat)	38.0 g/kg (rat)	not available

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity:

N/A

Persistence and degradability:

N/A

Bioaccumulative potential:

N/A

Mobility in soil:

N/A

Other adverse effects:

N/A

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal methods:

Dispose of in accordance with federal, state, and local regulations.

SECTION 14 – TRANSPORTATION INFORMATION

UN number:

UN 1993

UN proper shipping name:

Combustible Liquid, N.O.S., (Isopropanol), 3, PG III, UN 1993

Transport hazard class(es):

3

Packing group, if applicable:

III

Environmental hazards:

N/A

Transport in bulk:

N/A

Special precautions for user:

N/A

SECTION 15 – REGULATORY INFORMATION

Safety, health and environmental regulations:

Not meant to be all-inclusive. Selected regulations presented.

SARA Title III Section 311/312 hazards: Immediate health, delayed health, fire

WHMIS Classification: Classes D2, D2B

TSCA Status: listed on TSCA inventory

OSHA Hazard Comm. Std.: See Section 2

CA = California Haz. Subst. List; CA65 = California Safe Drinking Water and Toxics Enforcement Act List; CT = Connecticut Tox. Subst. List; FL = Florida Subst. List; IL = Illinois Tox. Subst. List; LA = Louisiana Haz. Subst. List; MA = Massachusetts Subst. List; ME = Maine Haz. Subst. List; MN = Minnesota Haz. Subst. List; NJ = New Jersey Haz. Subst. List; PA = Pennsylvania Haz. Subst. List; RI = Rhode Island Haz. Subst. List.+

SECTION 16 – OTHER INFORMATION

Date of Preparation: 05/09/2016

To the best of our knowledge, the information contained herein is accurate. Final determination of the suitability of any material is the sole responsibility of the users. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein; we cannot guarantee that these are the only hazards which exist.