



Armorcoat 65 Metal Coating Part B

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ARMORCOAT 65 METAL COATING PART B
IDENTIFICATION NUMBER: AC105-1, AC105-2, AC105-10, AC144-1, AC144-2, AC144-10
SUPPLIER/MANUFACTURER: VANBERG SPECIALIZED COATINGS
10705 COTTONWOOD ST
LENEXA, KS 66215-2032

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SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification: Flammable liquid category 3, Specific target organ toxicity following repeated exposure category 2, Specific target organ toxicity – single exposure category 3, Aspiration hazard category 2, Acute dermal toxicity category 4, Skin corrosion/irritation category 2, skin sensitizer category 1B, Serious eye irritation category 1, Acute toxicity inhalation category 4, Acute hazard to aquatic environment category 3

GHS Label Elements and Precautionary Statements:

Label Elements: Flame, Health hazard, Exclamation Mark, Corrosion



Hazard Statements:

Warning: Flammable liquid and vapor.
Warning: May cause damage to organs (auditory system) through prolonged or repeated exposure
Warning: May cause respiratory irritation.
Warning: May be harmful if swallowed and enters airways
Warning: Harmful in contact with skin
Warning: Causes skin irritation
Warning: May cause an allergic skin reaction
Danger: Causes serious eye damage.
Warning: Harmful if inhaled
Warning: harmful to aquatic life.

Precautionary statements:

P102 Keep out of reach of children.
P103 Read label before use
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.

P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P260 Do not breathe dust/fume/gas/mist/vapours/spray
P271 Use only outdoors or in a well-ventilated area.
P264 Wash hands thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P271 Use only outdoors or in a well-ventilated area

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
P370 + P378 In case of fire: Use FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL for extinction.
P314 Get medical advice/attention if you feel unwell
P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 Do NOT induce vomiting.
P302 + P352 IF ON SKIN: wash with plenty of soap and water
P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.
P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 If in eyes, immediately call a POISON CENTER or doctor/physician.
P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P273 Avoid release to the environment

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws.

HMIS Hazard Classification

Health: 2 Flammability: 3 Reactivity: 0 Personal Protective Equipment: G

Potential Health Effects

Eyes: Can cause severe irritation, redness, tearing, or blurred vision.

Skin: May cause irritation, defatting and dermatitis.

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting, diarrhea and aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

Inhalation: Can cause nausea and respiratory irritation, dizziness, weakness, fatigue, headache and possible unconsciousness

Health hazards (acute and chronic):

Amine resins can cause sensitization by exposure through contact or high concentrations of vapor. Over exposure to this material can cause cardiac abnormalities, anemia, liver abnormalities, kidney damage or even eye damage

Medical Conditions Generally Aggravated by Exposure: respiratory conditions or other allergic response.

Carcinogenicity

OSHA: NO NTP: YES IARC: YES

Additional Carcinogenicity Information:

Some colors may contain carbon black - Explanation of Carcinogenicity for carbon: IARC MONOGRAPHS ON EVALUATION OF CARCINOGENIC RISK OF CHEMICALS TO MAN, VOL 65, PG 149, 1996: GROUP 2B. Product may contain ethyl benzene as a component of xylene (IARC 2B). IARC has determined that crystalline silica inhaled in the form of quartz is carcinogenic to humans (Group 1- carcinogenic to humans). The NTP classifies respirable crystalline silica as reasonably anticipated to be a carcinogen. Titanium Dioxide is listed by IARC as possibly carcinogenic to humans (group 2B). Product may contain ethyl benzene as a component of xylene (IARC 2B)

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	OSHA PEL	ACGIH TLV	OSHA STEL	WEIGHT%
*Xylene	1330-20-7	100 ppm	100 ppm	150 ppm	28
*ethyl benzene (as a component of xylene)	100-41-4	100 ppm	100 ppm	125 ppm	0-6.0
*toluene (as a component of xylene)	108-88-3	200 ppm	200 ppm	150 ppm	0-0.2
Triethylene tetramine	112-24-3	none	none	none	1-5
Dimer/tofa, reaction products with Teta	68082-29-1	none	none	none	10-30
Aromatic Petroleum Distillates	64742-95-6	100 ppm	100 ppm	none	1-5
*cumene (as a component of 64742-95-6)	98-82-8	50 ppm	50 ppm	none	<0.1
*1,2,4-Trimethylbenzene as a component of Aromatic Petroleum Distillates	95-63-6	25 ppm	none	none	<2
*ethyl benzene (as a component of Aromatic petroleum Distillate)	100-41-4	100 ppm	100 ppm	125 ppm	<1
TRIS-2,4,6-dimethylaminomethylphenol	90-72-2	none	none	none	1-5
Bis(dimethylaminomethyl) phenol	71074-89-0	none	none	none	0.1-1
Mica	12001-26-2	20 ppmcf	3 mg/m ³	none	7-13
*crystalline silica (as a component of mica)	14808-60-7	10 mg/m ³	0.1 mg/m ³	0.1 mg/m ³	<0.1
Talc	14807-96-6	20 mg/m ³	20 mg/m ³	20 mg/m ³	10-30
*crystalline silica (as a component of talc)	14808-60-7	10 mg/m ³	0.1 mg/m ³	0.1 mg/m ³	<0.1
*BUTANOL NORMAL	71-36-3	50 ppm	50 ppm	none	2
Propylene glycol methyl ether acetate	108-65-6	none	none	none	0.1-1
2-methoxy-1-propanol acetate	70657-70-4	none	none	none	0.1-1
Colors May Contain @ 10-30%:					
Titanium Dioxide	13463-67-7	10 mg/m ³	10 mg/m ³	5 mg/m ³	
Carbon black	1333-86-4	3.5 ppm	3.5 ppm	none	<1.0
Acrylic Polymers (Non-Hazardous)	trade secret	none	none	none	
C.I. Pigment Violet 19	1047-16-1	none	none	none	
Barium Sulfate	7727-43-7	5 mg/m ³	10 mg/m ³	none	
Zinc Salt Of Alkyl Naphalene Sulfonic Acid	undisclosed	none	none	none	
Solvent Naptha	64742-88-7	none	none	none	
Polyamine Polyester Polymer	(non hazardous)	none	none	none	
C.I. Pigment Blue 15	147-14-8	none	none	none	
C.I. Pigment Blue	25869-00-5	none	none	none	
C11-C13 Isoparaffin	64741-65-7	none	none	none	
C.I. Pigment Green 17	1308-38-9	none	none	none	
Alkyl Polyether Phosphate Ester	trade secret	none	none	none	
C.I. Pigment Green 7	1328-53-6	none	none	none	
C.I. Pigment Green 36	14302-13-7	none	none	none	
C.I. Pigment Yellow	4531-49-1	none	none	none	
C.I. Pigment Yellow	5567-15-7	none	none	none	
C.I. Pigment Yellow 42	51274-00-1	none	none	none	
Pigment Orange	15793-73-4	none	none	none	

C.I. Pigment Red 101	1309-37-1	none	none	none	
C.I. Pigment Red 3	2425-85-6	none	none	none	
Aluminum Silicate Dehydrate	1332-58-7	none	none	none	
Mineral Spirits	8052-41-3	100 ppm	100 ppm	none	
C.I. Pigment Red 187	59487-23-9	none	none	none	

SECTION 3 NOTES:

INDICATES TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372. (ACGIH STEL=150PPM FOR XYLENE). (BUTANOL: OSHA CEILING =50PPM, TWA-SKIN=50PPM, ACGIH TWA SKIN=50PPM). FOLLOW TSCA 8(d) 40 CFR 47 FR 387; RCRA 40 CFR 261; CWA 311 (b) (2) (a) 40 CFR 116,117 GUIDELINES

Note: Ingredients listed without percentages, the percentages are considered a trade secret.

SECTION 4 – FIRST AID MEASURES

Eyes: Flush eyes with water for at least fifteen minutes and consult a physician.

Skin: Skin contact will normally cause no more than irritation but wash affected area with soap and water and remove contaminated clothing promptly.

Ingestion: Do not induce vomiting, keep person warm and consult a physician immediately.

Inhalation: Remove victim to fresh air and administer oxygen if necessary.

Notes to physicians or first aid providers:

SECTION 5 – FIRE FIGHTING MEASURES

Flammable Limits in Air (% by volume): Upper: 11.2% Lower: 1.4%

Flash Pt: 79°F (26°C)

Method Used: Seta Flash

Extinguishing Media:

Foam, alcohol foam, CO₂, dry chemical.

Special Fire Fighting Procedures:

Do not enter confined fire area without full bunker gear including a positive pressure NIOSH approved self-contained breathing apparatus. Cool all fire exposed containers with water. Presence of solvents in products may require grounding.

Unusual Fire and Explosion Hazards:

If fire occurs, solvents may produce excessive pressure. Sealed drums may rupture and ignite. Vapors are heavier than air and may travel along the ground and ignite by any source of ignition. Never use a cutting or welding torch near containers (even empty). All 5 gallon and larger containers should be grounded before transferring material.

SECTION 6 – RELEASE MEASURES

Steps to Be Taken in Case Material Is Released or Spilled

Wear respirator and protective clothing. Remove all sources of ignitions. Remove excess with vacuum truck and take up the remainder with an absorbent material such as clay and place in disposal containers. Flush area with water to remove residue.

SECTION 7 – HANDLING AND STORAGE

Precautions to Be Taken in Handling and Storage:

Store in a cool dry place. Seal all partially used containers. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Mixed materials contain the hazards of all the components, therefore, read the SDS of all the components prior to using material. Properly label all containers. Keep material away from all sources of ignition.

Other Precautions:

Avoid all skin contact. Avoid breathing vapors generated from the material. Observe conditions of good general hygiene and safe working practices. Contaminated leather articles can not be cleaned and must be discarded if contaminated with this product. Wash all contaminated clothing prior to the reuse thereof. Wear appropriate safety equipment and respirator at all times when ventilation is not sufficient to control vapors.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection:

Use a NIOSH approved respirator as required to prevent over exposure to vapor in accordance with 29 CFR 1910.134. Engineering or administrative measures should be taken to reduce the risk and exposure.

Ventilation:

Provide sufficient mechanical (general and local exhaust) ventilation to maintain exposure below toxic level values.

Protective gloves:

Impervious gloves – neoprene or rubber.

Eye protection:

Splash goggles or glasses with side shields.

Other protective clothing or equipment:

Wear body covering clothing and other coverings as necessary such as apron and appropriate footwear to avoid contact with material.

Work hygienic practices:

Observe good general hygienic practices.

See Section 3 for occupational exposure limit values.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: low viscosity liquid in varying colors – solvent odor

Boiling Point or Range: 200-279°F (93-137°C)

Vapor Density (Air = 1): N/A

Specific Gravity (H₂O = 1): 1.4

Evaporation Rate: N/A

Solubility in Water: negligible

Odor Threshold: N/A

pH: N/A

Melting point/freezing point: N/A

Vapor Pressure: N/A

Auto Ignition Temperature: N/A

Partition Coefficient: n-octanol/water: N/A

Decomposition Temperature: N/A

SECTION 10 – STABILITY AND REACTIVITY

Stability:

Stable

Conditions to Avoid (Stability):

Avoid excessive heat or open flames as well as all sources of ignition such as sparks, heaters, and static discharges etc.

Incompatibility (Material to Avoid):

Avoid epoxy curing agents in uncontrolled amounts and strong oxidizing agents.

Hazardous Decomposition or By-Products:

May form toxic chemicals, carbon dioxide, carbon monoxide and various hydrocarbons etc.

Hazardous Polymerization:

Will not occur.

SECTION 11 – Toxicological Information

No data for the product itself.

Component data:

Component CAS# 68082-29-1 and CAS# 112-24-3: Acute Oral Toxicity LD50 (rat) >2000 mg/kg (estimate); Acute Dermal Toxicity LD50 (rabbit) >2000 mg/kg (estimate); Component has caused allergic sensitization in humans.

Titanium Dioxide: Inhalation 4 h LC50 > 6.82 mg/l; Oral LD50 > 5000 mg/kg, rat; In February 2006, IARC listed titanium dioxide as possibly carcinogenic to humans Group 2B.

Component Xylene: Inhalation LC50 26800ppm, Skin LD50 2000 mg/kg, Ingestion LD50 4.3 g/kg. Exposure may effect skin, eye, liver, kidney, nervous system, respiratory system and lungs. High concentrations may lead to nervous system effects. Repeated overexposure has produced toxic effects in developing and young laboratory animals. Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal. Xylene may contain ethyl benzene, and toluene. Ethyl benzene has shown limited evidence of a carcinogenic effect.

Component CAS# 64742-95-6 Test on similar materials show a low order of acute oral and dermal toxicity. May cause eye irritation, may cause irritation on skin and mucous membranes.

Component CAS# 14807-96-6: Carcinogenic effects – this component may contain crystalline silica dust can cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline Silica is also listed by the NTP as a known human carcinogen

Component Butanol CAS# 71-36-3: Acute Oral Toxicity LD50 = 790 mg/kg (rat) 4hr estimated. Acute Dermal Toxicity LD50 = 3400 mg/kg (rabbit) 4hr estimated. Acute toxicity of the Vapor LC50 = 8000 (rat) 4hr estimated

Component CAS# 90-72-2 and CAS# 71074-89-0: Oral LD50 (rat) 1200 mg/kg; Dermal LD50 (rabbit) 1280 mg/kg; Inhalation LC50 (rat) > 0.5 mg/liter/1 hour; Severe irritant to eyes of a rabbit. Severe irritant to the skin of a rabbit. Corrosive to the skin of a rabbit.

Component Carbon: IARC lists carbon as a possible human carcinogen Category 2B. LD50 – Intravenous, mouse = 440 mg/kg

SECTION 12 – ECOLOGICAL INFORMATION

No data for the product itself.

Component data:

Titanium Dioxide: Pimephales promelas (fathead minnow) < 1000 mg/l @ 96h LC50; Pseudokirchneriella subcapitata (green algae) 61 mg/l @ 72h EC50; Daphnia magna (water flea) > 1000 mg/l @ 48h EC50

Component Xylene: Acute Toxicity: Fish: Toxic 1 < LCECIC50 < 10mg/l, Aquatic Invertebrates: Toxic 1 < LC/EC/IC50 < 10mg/l, Algae: Toxic 1 < LC/EC/IC50 < 10 mg/l. Mobility – floats on water. If it enters the soil it will be highly mobile and may contaminate groundwater. Oxidises rapidly by photo-chemical reactions in air.

Component CAS# 64742-95-6 Toxic to aquatic organisms.

Component CAS# 14807-96-6: There is no data that suggests that crystalline silica is toxic to birds, fish, invertebrates, microorganisms or plants.

Component Butanol CAS# 71-36-3: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The products of degradation are more toxic.

Component CAS# 90-72-2 and CAS# 71074-89-0: Toxicity: LC50 fish 447.8 mg/l (96 hr). LC50 Crust 28.2 mg/l (48 hr). EC50 alga 34.8 mg/l (96 hr)

SECTION 13 – WASTE DISPOSAL

Waste Disposal Method

Dispose of the material in a waste disposal site in accordance with local, state, and federal laws.

SECTION 14 – TRANSPORT INFORMATION

DOT: UN1993, FLAMMABLE LIQUID N.O.S. (CONTAINS XYLENE, BUTANOLS), 3, PG III

IMO/IMDG: UN1993, FLAMMABLE LIQUID N.O.S. (CONTAINS XYLENE, BUTANOLS), 3, PG III

SECTION 15 – REGULATORY INFORMATION

No data for the product itself.

Component data:

Component CAS# 68082-29-1 and CAS# 112-24-3 are on the TSCA list. Osha Hazard class – irritant, sensitizer. On the Canadian DSL, on the EINECS master inventory

Titanium Dioxide: Contains Proposition 65 Chemicals, is on the PA Hazardous substance list, is on the NJ right to know Regulated chemical list. Titanium Dioxide is on inventory or in compliance with EINECS, TSCA, AICS, DSL, ENCS (JP), KECI (KR), PICCS (PH) and INV (CN).

Component Xylene: Xylene contains EPCRA section 313 chemicals subject to the reporting requirements of the emergency planning and community right to know act of 1968. (Maximum wt % for components of xylene are: M-Xylene CAS# 108-38-3 is 46%, P-Xylene CAS# 106-42-3 is 20%, Ethyl Benzene CAS# 100-41-4 is 19%, O-Xylene CAS# 95-47-6 is 16%.. Xylene and its

components are on the California Proposition 65 list for developmental toxicity, Reproductive toxicity and carcinogen list. Ingredients are on the TSCA list, DSL Canada, AICS, China, EINECS, ENCS, Korea, New Zealand, Phillipines inventory lists and on the Massachusetts, New Jersey, Pennsylvania right to know lists Ethyl Benzene a component of xylene has been designated by IARC as a possible carcinogen to humans based on increased tumor incidence in laboratory animals. risk phrases R10 Flammable R20/21 Harmful by inhalation and in contact with skin, R38 irritating to skin, S25 Avoid contact with eyes.

Component CAS# 12001-26-2: On TSCA list. DSL Canada Listed and is considered an uncontrolled product. Although not on the California Proposition 65 list, it may contain ppm quantities of materials regulated under Californias safe drinking water and toxic enforcement act of 1986.

Component CAS# 64742-95-6 This product is a hazardous chemical . This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372 Component 1,2,4-trimethylbenzene CAS# 95-63-6 at < 42% and xylene CAS# 1330-20-7 at < 3.0%, Cumene CAS# 98-82-8 at < 2%, and Ethylbenzene CAS# 100-41-4 at < 0.40%.. This component contains chemicals on the California Proposition 65 list that may cause cancer or reproductive harm. Component is on the TSCA list as well as the AICS, DSL, ECL, EINECS, ENCS, IECS and PICCS lists

Component Butanol CAS# 71-36-3: Sara 313 – 40 CFR 372.65 chemical. CERCLA 40 CFR 302.4 (a) Chemical RQ=5000 pounds. On the TSCA list. On the DSL, AICS, ECL, EINECS, and ENCS lists. Butanol is on the Pennsylvania and New Jersey Right to Know lists

Component CAS# 14807-96-6 may contain Crystalline Silica (Silicon Dioxide) which is on the TSCA list. NTP list as a known human carcinogen, California proposition 65 list as a known carcinogen, Massachusetts Toxic Use Reduction Act list as toxic, Pennsylvania Worker and community right to know Act list as a hazardous substance.

Component CAS# 90-72-2 and 71074-89-0 EEC symbol – Harmful, harmful if swallowed (R22) Irritating to eyes and skin (R36/38). Component is on the Canada DSL, TSCA, EINECS, AICS, ENCS, ECL, SEPA, PICCS lists

Component acrylic polymers: Listed on TSCA and DSL.

Component Barium Sulfate: : Listed on TSCA and DSL.

Component C.I. Pigment violet 19 CAS# 1047-16-1: Listed on TSCA and DSL.

Component zinc salt of alkyl naphalene sulfonic acid: Listed on TSCA and DSL.

Component solvent naptha CAS# 64742-88-7: Listed on TSCA and DSL.

Component polyamine polyester polymer (non hazardous): Listed on TSCA and DSL.

Component C.I. Pigment blue 15 CAS# 147-14-8: Listed on TSCA and DSL.

Component C.I. Pigment blue CAS# 25869-00-5: Listed on TSCA and DSL.

Component CAS# 164741-65-7: Listed on TSCA and DSL.

Component C.I. Pigment green 17 CAS# 1308-38-9: Listed on TSCA and DSL.

Component Alkyl polyether phosphate ester-trade secret: Listed on TSCA and DSL

Component C.I. Pigment green CAS# 1328-53-6: Listed on TSCA and DSL.

Component C.I. Pigment green 36 CAS# 14302-13-7: : Listed on TSCA and DSL.

Component CAS# 4531-49-1: Listed on TSCA and DSL

Component CAS# 5567-15-7: Listed on TSCA and DSL. Listed on the Pennsylvania, New Jersey right to know lists

Component C.I. Pigment yellow 42 CAS# 51274-00-1 Listed on TSCA and DSL.

Component CAS# 15793-73-4: Listed on TSCA and DSL. Listed on the Pennsylvania, New Jersey right to know lists

Component C.I. Pigment red 101 CAS# 1309-37-1: Listed on TSCA and DSL.

Component C.I. Pigment red 3 CAS# 2425-85-6: Listed on TSCA and DSL.

Component aluminum silicate dehydrate CAS# 1332-58-7: Listed on TSCA and DSL.

Component mineral spirits CAS# 8052-41-3: Listed on TSCA and DSL.

Component C.I. Pigment red 187 CAS# 59487-23-9: Listed on TSCA and DSL.

Component Carbon: Contains Proposition 65 Chemicals. Carbon: is listed on TSCA and DSL Canada

SECTION 16 – OTHER INFORMATION

N/A = Not Available

See Section 1 for date of preparation

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

END OF SDS