



# Material Safety Data Sheet

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## ArmorSeal® 700HS Water Based Epoxy Floor Coating

## AS-700

CAS No.	— Section 2 — Hazardous Ingredients (percent by weight)	ACGIH	OSHA	Units	LD50	LC50	Vapor	B70AQ21	B70CQ20	B70HQ23	B70RQ24	B70WQ22	B60VQ20	PERCENT BY WEIGHT
		TLV <STEL>	PEL <STEL>		(Rat-Oral) mg/kg	(Rat) ppm/4hr.	Pressure mm	Part A Haze Gray	Part A Clear	Part A Sandstone	Part A Tile Red	Part A White	Part B Hardener	
90-72-2	Tri(dimethylaminomethyl)phenol.	NAv	NAv		1200	NAv							8	
84852-15-3	4-Nonylphenol.	NAv	NAv		NAv	NAv		4	9	4	4	5	17	
Proprietary	Polyoxypropylenediamine.	NAv	NAv		2855	NAv							59	
140-31-8	n-Aminoethyl Piperazine	NAv	NAv		2140	NAv							15	
25068-38-6	Epoxy Polymer.	NAv	NAv		NAv	NAv		11	11	11	7	19		
25085-99-8	Epoxy Polymer.	NAv	NAv		NAv	NAv		30	72	30	32	39		
Proprietary	Alkyl Glycidyl Ether.	NAv	NAv		NAv	NAv		3	7	3	3	4		
14807-96-6	Talc	2	2	mg/m3 as Resp. Dust	NAv	NAv		10		10	11	13		
471-34-1	Calcium Carbonate.	10	15[5]	mg/m3 as Dust [Resp. Fraction]	NAv	NAv		22		22	23			
7727-43-7	Barium Sulfate.	10	10[5]	mg/m3 as Dust [Resp. Fraction]	NAv	NAv		12		12	13	16		
13463-67-7	Titanium Dioxide.	10	10[5]	mg/m3 as Dust [Resp. Fraction]	NAv	NAv		6		6		3		
	[% Barium]							[7.2]		[7.2]	[7.5]	[9.4]		
	Weight per Gallon (lbs.)							13.88	9.23	13.88	14.23	11.92	7.93	
	Solids by Weight (%)							99.8	100.0	99.8	100.0	100.0	99.6	
	Solids by Volume (%)							99.7	100.0	99.7	100.0	100.0	99.6	
	VOC (Volatile Organic Compounds) - lbs./gal.							0.02	0.00	0.02	0.00	0.00	0.02	
	Photochemically Reactive							No	No	No	No	No	No	
	Flash Point (°F)							>200	>200	>200	>200	>200	>200	
	HMIS (NFPA) Rating (health - flammability - reactivity)							3 - 1 - 0	3 - 1 - 0	3 - 1 - 0	3 - 1 - 0	3 - 1 - 0	3* - 1 - 0	

No ingredients are subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.65 C

## Section 3 — Hazards Identification

**ROUTES OF EXPOSURE** - Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. Hardener may be absorbed through the skin. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

**EFFECTS OF OVEREXPOSURE** - B60VQ20 Hardener causes eye, skin and respiratory tract burns. Other listed products cause irritation of eyes, skin and upper respiratory system.

In a confined area vapors in high concentration may cause headache, nausea or dizziness.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE** - Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE** - May cause allergic skin reaction in susceptible persons.

**CANCER INFORMATION** - For complete discussion of toxicology data refer to Section 11.

## Section 4 — First Aid Measures

If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

If on SKIN: Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

If SWALLOWED: Do not induce vomiting. Get medical attention immediately.

## Section 5 — Fire Fighting Measures

**FLASH POINT** See TABLE

	LEL	UEL
	NAP	NAP

**FLAMMABILITY CLASSIFICATION** - Not Applicable

**EXTINGUISHING MEDIA** - Carbon Dioxide, Dry Chemical, Alcohol Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS** - Closed containers may explode when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES** - Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## Section 6 — Accidental Release Measures

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED** - Remove all sources of ignition. Ventilate the area. Remove with inert absorbent.

## Section 7 — Handling and Storage

**STORAGE CATEGORY** - DOL Storage Class 3B

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING** - Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

## Section 8 — Exposure Controls/Personal Protection

**PRECAUTIONS TO BE TAKEN IN USE** - Use only with adequate ventilation. Do not get in eyes or on skin. Avoid breathing vapor and spray mist. Wash hands after using.

These coatings may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg./m3 (total dust), 3 mg./m3 (respirable fraction), OSHA PEL 15 mg./m3 (total dust), 5 mg./m3 (respirable fraction).

**VENTILATION** - Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION** - If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES** - To prevent skin contact, wear neoprene gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION** - To prevent eye contact, wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT** - To prevent skin contact, use of barrier cream on exposed skin is recommended.

**OTHER PRECAUTIONS** - These products must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

## Section 9 — Physical and Chemical Properties

PRODUCT WEIGHT	See TABLE	EVAPORATION RATE	Slower than ether
SPECIFIC GRAVITY	0.95 - 1.71	VAPOR DENSITY	Heavier than air
BOILING POINT	Not Applicable	MELTING POINT	Not Available
VOLATILE VOLUME	0 %	SOLUBILITY IN WATER	Not Available

## Section 10 — Stability and Reactivity

**STABILITY** - Stable

**CONDITIONS TO AVOID** - None known.

**INCOMPATIBILITY** - None known.

**HAZARDOUS DECOMPOSITION PRODUCTS** - By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION** - Will not occur

## Section 11 — Toxicological Information

**CHRONIC Health Hazards** - No ingredient in these products is an IARC, NTP or OSHA listed carcinogen.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

## Section 12 — Ecological Information

No data available.

## Section 13 — Disposal Considerations

**WASTE DISPOSAL METHOD** - Waste from these products is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## Section 14 — Transport Information

No data available.

## Section 15 — Regulatory Information

**CALIFORNIA PROPOSITION 65** - WARNING: B70AQ21, B70HQ23 and B70RQ24 contain chemicals known to the State of California to cause cancer. B60VQ20 and B70WQ22 contain a chemical known to the State of California to cause cancer.

**TSCA CERTIFICATION** - All chemicals in these products are listed, or are exempt from listing, on the TSCA Inventory.

## Section 16 — Other Information

These products have been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

The above information pertains to these products as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to these products may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.