SAFETY DATA SHEET

Issue Date 07-May-2015

Revision Date 30-May-2015

Version 1

1. IDENTIFICATION

Product identifier Product Name	Armor 350 50 VOC			
Other means of identification Product Code Synonyms	Armor 350 50 VOC			
Recommended use of the chemical and restrictions on use				
Recommended Use	Concrete Sealing.			
Uses advised against	No Data			
Details of the supplier of the safety data sheet Manufacturer Address Foundation Armor LLC. 3 Bud Way STE 27, Nashua, NH 03063 (866) 306-0246				

Emergency telephone number

Company Phone Number	(866) 306-0246
24 Hour Emergency Phone Number	(800) 424-9300 (United States & Canada)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

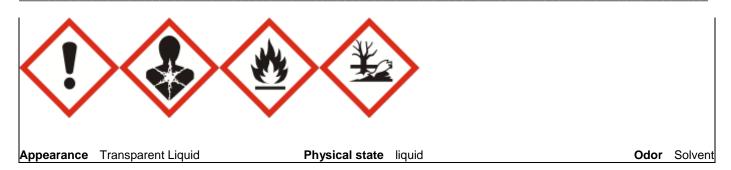
Acute toxicity - Oral	Category 5
Acute toxicity - Inhalation (Vapors)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 2
Flammable liquids Category 2, Hazardous to the Aquatic Environment	- Long Term (Chronic) Hazard Category 2

Label elements

Emergency Overview

Danger!

Hazard statements Highly flammable Suspected of Causing Cancer Toxic to Aquatic Life with Long Lasting Effects Causes Serious Eye Irritation May Cause Respiratory Irritation May Cause Drowsiness or Dizziness May be Harmful if Swallowed May be Harmful if Swallowed and Enters Airways Causes Skin Irritation



Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ ventilating / lighting/ .? / equipment Use only non-sparking tools Take action to prevent static discharges Avoid breathing dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Use only outdoors or in a well-ventilated area Avoid release to the environment Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

If skin irritation occurs: Get medical advice or attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contacts, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CONTROL CENTER/doctor

Do NOT induce vomiting.

Take off contaminated clothing and wash before reuse

In case of fire use, "alcohol resistant" foam, dry chemical, halon or carbon dioxide to extinguish.

Collect spillage

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

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

Hazards not otherwise classified (HNOC)

Repeated exposure may cause skin dryness or cracking

Other Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No.	Weight-%	Trade Secret
Dimethyl carbonate	616-38-6	30 - 60	*
Poly (methyl methacrylate/n-Butyl	28262-63-7	10 - 30	*

methacrylate/Methacrylic acid)			
Acetone	67-64-1	7 - 13	*
Naphtha (petroleum), heavy aromatic	64742-94-5	1 - 5	*
Petroleum naphtha, light aromatic	64742-95-6	1 - 5	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice	Move out of the dangerous area. Consult a physician. Provide this Safety Data Sheet to the doctor in attendance.		
Eye contact	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.		
Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.		
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.		
Ingestion	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.		
Most important symptoms and effects, both acute and delayed			
Symptoms	Eye, Skin, and Respiratory Irritation.		
Indication of any immediate medical attention and special treatment needed			
Note to physicians	Treat symptomatically. For additional information, see Safety Data Sheet.		

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry Chemical, Alcohol Resistant Foam, Halon or Carbon Dioxide.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

In a fire or if heated a pressure increase may occur and the container may burst.

Hazardous combustion products Carbon dioxide (CO2). Carbon monoxide.

Explosion data Sensitivity to Mechanical Impact Not available. Sensitivity to Static Discharge May be ignited by friction, heat, sparks or flames.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment as required. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental precautions	
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not allow product to enter any drains or waterways.
Methods and material for containme	ent and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.
Methods for cleaning up	Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal. Use clean non-sparking tools to collect absorbed material. Dispose according to local regulations.
	7. HANDLING AND STORAGE
Precautions for safe handling	
Advice on safe handling	Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoidbreathing dust/fume/gas/mist/vapours/spray. Keep away from heat, hot surfaces, sparks, open flames and otherignition sources. No smoking. Ground and bond container and receiving equipment. Take measures to prevent thebuildup of electrostatic charge. Use non-sparking tools. Wash hands and skin thoroughly after handling. Use onlyoutdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Incompatible materials	Keep away from strong oxidizing agents, strong alkalis, and strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Dimethyl Carbonate - CAS 616-38-6: None Established. Petroleum Naphtha, Light Aromatic, CAS# 64742-95-6: OSHA 100 ppm TWA. Naphtha (petroleum), heavy aromatic -CAS# 64742-94-5: None Established. Poly (methyl methacrylate/n-Butyl methacrylate/Methacrylic acid) - CAS# 28262-63-7: None Established. Acetone - CAS# 67-64-1: UK. EH40 WEL TWA 500 ppm 8 hours, STEL 1500 ppm 15 minutes.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetone	STEL: 750 ppm	TWA: 1000 ppm	IDLH: 2500 ppm
67-64-1	TWA: 500 ppm	TWA: 2400 mg/m ³	TWA: 250 ppm
		(vacated) TWA: 750 ppm	TWA: 590 mg/m ³
		(vacated) TWA: 1800 mg/m ³	-
		(vacated) STEL: 2400 mg/m ³	
		The acetone STEL does not apply	
		to the cellulose acetate fiber	
		industry. It is in effect for all other	
		sectors	
		(vacated) STEL: 1000 ppm	

Appropriate engineering controls

Engineering Controls

General/Local Ventilation Recommended.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).		
Skin and body protection	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear chemical resistant gloves at minimum. Wash skin immediately upon contact. Wash hands at mealtime and end of shift.		
Respiratory protection	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.		
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after breaks and at the end of the work day.		

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Color	liquid Transparent Liquid Transparent Liquid - May have slight color due to performance additives.	Odor Odor threshold	Solvent No data available
<u>Property</u> pH Melting point / freezing point	<u>Values</u> Not Relevant Not Available	Remarks • Method	
Boiling point / boiling range Flash point	149 °C -17 °C (-4 °F) Not Available	CC (closed cup)	
Evaporation rate Flammability (solid, gas) Flammability Limit in Air	Not Relevant		
Upper flammability limit: Lower flammability limit: Vapor pressure	12.0% 2.0% Not Available		
Vapor density Relative density Water solubility	Not Available .95 @ 70 Degrees F Insoluble in water		
Solubility in other solvents Partition coefficient	Not Available Not Available		
Autoignition temperature Decomposition temperature Kinematic viscosity	Not Available Not Available Not Available		
Dynamic viscosity Explosive properties Oxidizing properties	Not Available Not Available Not Available		
Other Information			
Softening point Molecular weight VOC Content (%) Density Bulk density	Not Relevant Not Available < 400 g/L Not Available Not Available		

10. STABILITY AND REACTIVITY

Reactivity

Not Available

 Chemical stability

 Stable.

 Possibility of Hazardous Reactions

 Hazardous polymerization does not occur.

 Conditions to avoid

 Heat, flames and sparks.

 Incompatible materials

 Keep away from strong oxidizing agents, strong alkalis, and strong acids.

 Hazardous Decomposition Products

 Hazardous decomposition products formed under fire conditions, carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye contact Direct contact.

Skin contact Direct contact.

Ingestion Direct contact.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dimethyl carbonate 616-38-6	= 13000 mg/kg (Rat)	>5 g/kg (Rabbit)	= 140 mg/L (Rat)4 h
Acetone 67-64-1	-	-	= 50100 mg/m ³ (Rat)8 h
Naphtha (petroleum), heavy aromatic 64742-94-5	> 5000 mg/kg (Rat)	>2 mL/kg (Rabbit)	> 590 mg/m³ (Rat)4 h
Petroleum naphtha, light aromatic 64742-95-6	-	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat)4 h = 3400 ppm (Rat)4 h

Information on toxicological effects

Symptoms

May cause drowsiness or dizziness if inhaled. May cause respiratory irritation. Causes serious eye irritation. Causes skin irritation.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Serious eye damage/eye irritation Irritation	Causes severe burns. Irritating to skin. Irritating to eyes. Risk of serious damage to eyes. Irritating to eyes, respiratory system and skin.
Sensitization	No data available.
Germ cell mutagenicity	No data available.
Carcinogenicity	Naphtha (petroleum), heavy aromatic (CAS#64742-94-5) Contains an ingredient, Cumene which is classified by IARC as "possibly carcinogenic to humans" (Group 2B).
Reproductive toxicity	Not Available.
STOT - single exposure	Not Available.
STOT - repeated exposure	Not Available.
Aspiration hazard	Not Available.

Numerical measures of toxicity - Product Information

12. ECOLOGICAL INFORMATION

Material is expected to be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Acetone	-	4.74 - 6.33: 96 h Oncorhynchus	10294 - 17704: 48 h Daphnia
67-64-1		mykiss mL/L LC50 6210 - 8120: 96	magna mg/L EC50 Static 12600 -
		h Pimephales promelas mg/L LC50	12700: 48 h Daphnia magna mg/L
		static 8300: 96 h Lepomis	EC50
		macrochirus mg/L LC50	
Naphtha (petroleum), heavy	2.5: 72 h Skeletonema costatum	19: 96 h Pimephales promelas mg/L	0.95: 48 h Daphnia magna mg/L
aromatic	mg/L EC50	LC50 static 2.34: 96 h	EC50
64742-94-5	-	Oncorhynchus mykiss mg/L LC50	
		1740: 96 h Lepomis macrochirus	
		mg/L LC50 static 45: 96 h	
		Pimephales promelas mg/L LC50	
		flow-through 41: 96 h Pimephales	
		promelas mg/L LC50	
Petroleum naphtha, light aromatic	-	9.22: 96 h Oncorhynchus mykiss	6.14: 48 h Daphnia magna mg/L
64742-95-6		mg/L LC50	EC50

Persistence and degradability

No data available.

Bioaccumulation

No data available.

Chemical Name	Partition coefficient
Acetone	-0.24
67-64-1	
Naphtha (petroleum), heavy aromatic	2.9 - 6.1
64742-94-5	

Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Under RCRA 40 CFR 261 this material is a hazardous waste. Dispose of in accordance with all federal, state, and local regulations. If uncertain of local requirements, contact the proper environmental authorities for information on waste disposal in your area. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

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

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Acetone	-	Included in waste stream:	-	U002
67-64-1		F039		

Chemical Name	California Hazardous Waste Status	
Acetone	Ignitable	
67-64-1		

14. TRANSPORT INFORMATION

DOT Marine pollutant UN1263, PAINT RELATED MATERIAL, 3, II Material is expected to be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

IATA

UN1263, PAINT RELATED MATERIAL, 3, II

IMDG

UN1263, PAINT RELATED MATERIAL, 3, II

15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not comply
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

 ENCS - Japan Existing and New Chemical Substances

 IECSC - China Inventory of Existing Chemical Substances

 KECL - Korean Existing and Evaluated Chemical Substances

 PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	Yes
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Acetone	5000 lb	-	RQ 5000 lb final RQ
67-64-1			RQ 2270 kg final RQ
US State Regulations			

California Proposition 65

This product contains chemicals known to the state of California to cause birth defects or other reproductive harm

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	Health hazards 2	Flammability 3	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 2	Flammability 3	Physical hazards 0	Personal protection X
Issue Date Revision Date Revision Note No data available Disclaimer	07-May- 30-May-			

<u>Disclaimer</u>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet