



Safety Data Sheet
Revised 10 December 2018

1. Identification

Product Name: Armor Var Elite NF
Product Codes: 9938

Recommended Use: Surface Protection

Manufactured By: David E. Easterday & Company, Inc.
1225-C US 62
Wilmot, Ohio 44689

Emergency Phone: 1-800-322-8172
(Monday - Friday, 7:30 a.m. to 5:00 p.m. EST)

Chemtrec Phone: 1-800-424-9300
Other Calls: (330) 359-0700
Facsimile: (330) 359-0800

2. Hazards Identification

Classification: Flammable Liquid 3, Skin Irritant 2, Eye Irritant 2A, Acute Toxicity 3, Mutagenicity 1B, Carcinogenicity 2, STOT-SE 3 NE, STOT-RE 1

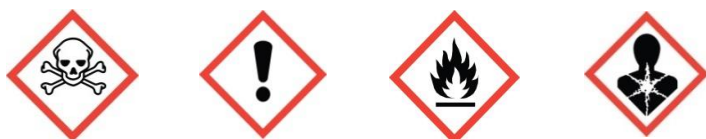
Signal Word: Danger

Hazard Statements:

H226	Flammable liquid and vapour
H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled
H303	May be harmful if swallowed
H340	May cause genetic defects
H351	Suspected of causing cancer
H336	May cause drowsiness or dizziness
H372	Causes damage to organs through prolonged or repeated exposure

*0.54% of the mixture consists of ingredients of unknown acute toxicity.

Symbols:



Precautionary Statements:

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.

- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use non-sparking tools.
- P243 Take action to prevent static discharges.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P264 Wash hands thoroughly after handling.
- P261 Avoid breathing fumes/gas/mist/vapours/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe fumes/gas/mist/vapours/spray.
- P270 Do not eat, drink or smoke when using this product.

Response

- P303+P361 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
+P353
- P370+P378 In case of fire: Use alcohol resistant foam, CO₂, and dry chemical extinguishing agents.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P330 Rinse mouth.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P305+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to
+P338 do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P311 Call a POISON CENTER/doctor if you feel unwell.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P314 Get medical advice/attention if you feel unwell.

Storage

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

Disposal

- P501 Dispose of contents/container in accordance with applicable federal, state, and local laws and regulations.

3. Composition/Information on Ingredients

<u>Ingredient</u>	<u>CAS No.</u>	<u>HAP (Y/N)</u>	<u>VOC (Y/N)</u>	<u>% by Wt.</u>
n-butyl acetate	123-86-4	No	Yes	22
ethyl alcohol	64-17-5	No	Yes	21
acetone	67-64-1	No	No	9
n-butyl alcohol	71-36-3	No	No	6
2-butoxyethanol	111-76-2	No	Yes	3
xylene	1330-20-7	Yes	Yes	3
ethyl benzene	100-41-4	Yes	Yes	1
methyl n-propyl ketone	107-87-9	No	Yes	1
methyl isobutyl ketone	108-10-1	Yes	No	< 1
methanol	67-56-1	Yes	Yes	< 1

4. First-Aid Measures

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): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

5. Fire-Fighting Measures

Extinguishing Media: Alcohol Resistant Foam, CO₂, Dry Chemical extinguishing agents.

Special Fire Fighting Procedures: Firefighters should wear self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to potential of hazardous vapors and decomposition products.

Unusual Fire and Explosion Hazards: Solvent vapors are heavier than air and may travel a considerable distance to a source of ignition and then flash back. Avoid accumulation of water. Solvent may float and reignite on surface of water. Closed containers may explode due to pressure build-up when exposed to extreme heat. Use water spray/fog for cooling. Do not cut, drill, grind, or weld near containers - even when empty. Residual product or vapors may ignite or explode.

Sensitive to Static Discharge: Appropriate grounding and bonding procedures should be followed when storing, transferring and applying this product to eliminate a build-up of static charge.

6. Accidental Release Measures

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with a suitable absorbent material. Gather and store in an approved and sealed container pending a waste disposal evaluation.

7. Handling and Storage

Handling: Rags or other materials containing this product may oxidize and ignite. All contaminated materials should be isolated immediately to avoid spontaneous combustion. Iron oxide pigments may accelerate this process. Use spark-proof tools and explosion-proof equipment. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Wash hands thoroughly after handling. Contents may develop pressure upon prolonged storage. Avoid contact with material. Avoid contact and avoid breathing vapors and fumes. Use only in a well ventilated area.

Storage: Keep away from sources of ignition. Keep away from heat, sparks, and flame. Keep from freezing. Keep container closed when not in use. Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. DO NOT store in unlined steel drums as this product is acidic and will react generating hydrogen gas. Store in lined, plastic, or glass containers.

8. Exposure Controls/Personal Protection

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH TLV-STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA CEILING</u>
n-butyl acetate	150 ppm	200 ppm	150 ppm	N.D.
ethyl alcohol	1000 ppm	N.D.	1000 ppm	N.D.
acetone	500 ppm	750 ppm	1000 ppm	N.D.
n-butyl alcohol	20 ppm	N.D.	100 ppm	N.D.
2-butoxyethanol	20 ppm	N.D.	50 ppm	N.D.
xylene	100 ppm	150 ppm	100 ppm	N.D.
ethyl benzene	100 ppm	125 ppm	100 ppm	N.D.
methyl n-propyl ketone	200 ppm	250 ppm	200 ppm	N.D.
methyl isobutyl ketone	20 ppm	75 ppm	100 ppm	N.D.
methanol	200 ppm	250 ppm	200 ppm	N.D.

N.D. - Not Determined ¹ ceiling value

Engineering Controls: Check applicable ventilation codes. Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Personal Protective Equipment:

Respiratory Tract - Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical evaluation, training, fit testing, exposure assessments, maintenance, inspection, cleaning and convenient, sanitary storage should be implemented.

Eyes - Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.

Skin - Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving the jobsite.

9. Physical and Chemical Properties

Appearance	opaque liquid	Vapor Pressure	Not determined
Odor	strong solvent	Vapor Density	Not determined
Odor Threshold	Not determined	Relative Density	1.03
pH	Not determined	Solubility	Not determined
Melting/Freezing Point	Not determined	Partition Coefficient, n-octanol/water	Not determined
Initial Boiling Point	139 °F (59 C°)	Auto-Ignition Temp.	Not determined
Boiling Range	Not determined	Decomposition Temp.	Not determined
Flashpoint	81 °F (27 C°)	Viscosity	Not determined
Evaporation Rate	Not determined	Material VOC	5.24 lbs per gallon (US)
UEL/LEL	Not determined		

10. Stability and Reactivity

Stability: Spontaneous combustion can occur. Stable under normal conditions.

Conditions to Avoid: Heat, sparks, open flames or other sources of ignition.

Incompatibility (Materials to Avoid): Ferrous Metals. Strong oxidizing agents. Strong acids. Peroxides.

Hazardous Decomposition or Byproducts: Carbon monoxide, Carbon dioxide.
Reacts with ferrous metals and may generate hydrogen gas.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

<u>Ingredient</u>		<u>LC₅₀</u> <u>ppm</u>	<u>LD₅₀</u> <u>mg/kg</u>	<u>IDLH</u> <u>ppm</u>	<u>Potential Carcinogen</u>
n-butyl acetate	123-86-4	390 (4 hr)	10768	1,700	
ethyl alcohol	64-17-5	20000 (10 hr)	7,060	3,300	
acetone	67-64-1	50,100 (8 hr)	5,800	2,500	
n-butyl alcohol	71-36-3	8,000 (4 hr)	790	1,400	
2-butoxyethanol	111-76-2	2,900 (7 hr)	250	700	IARC, Group 3
xylene	1330-20-7	N.D.	4,988	900	IARC, Group 3
ethyl benzene	100-41-4	55,000 (2 hr)	3,500	800	IARC, Group 2B
methyl n-propyl ketone	107-87-9	4,000 (4 hr)	1,600	1,500	
methyl isobutyl ketone	108-10-1	9,756 (4hr)	4,600	500	IARC, Group 2B
methanol	67-56-1	64000 (4 hr)	5,628	6000	IARC, Group 3

¹N.D. - Not Determined

Primary Routes of Entry eyes, skin, respiratory tract, gastrointestinal tract

12. Ecological Information

Overview: No data available. No ecological information available.

13. Disposal Considerations

Waste Disposal Method: Whatever cannot be recovered, reused, or recycled in an appropriate manner should be disposed of at an approved waste facility. Processing, use or contamination of this product may change the the waste management options. Dispose of container and unused contents in accordance with applicable federal, state and local laws and regulations.

EPA: If disposed, this coating is considered a RCRA ignitable waste, D001.

Components Subject to EPA Land Ban Restrictions:

acetone	67-64-1
xylene	1330-20-7
ethyl benzene	100-41-4

14. Transport Information

U.S. Department of Transportation Title 49 CFR, Subchapter C	Proper Shipping Name: Hazard Class: I.D. Number: Packing Group:	Paint 3 UN 1263 III
Emergency Response Guidebook (2016)	Guide Number:	128

15. Regulatory Information

Sara 313 Reportable:

<u>Chemical</u>	<u>CAS No.</u>
acetone	67-64-1
xylene	1330-20-7
ethyl benzene	100-41-4

16. Other Information

To the best of our knowledge, the information and recommendations contained herein were believed to be accurate at the time of preparation, or obtained from sources believed to be reliable. However, it is the user's responsibility to determine safety, toxicity, and suitability for his own use of the product. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding the product described, data or information set forth. In no case shall the descriptions, information or data provided be considered as part of our terms and conditions of sale. The descriptions, information and data furnished herein are given gratis. No obligation or liability for the descriptions, information and data given are assumed. All such being given and accepted at your risk.

The customer or recipient of this SDS should ensure that the information contained in this SDS is made available to all employees or other persons whom he knows or believes will use this material.

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