

SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: ARMOUR SHIELD FAST DRY ENAMEL BLACK & OLD SAN JUAN

Trade Name: ARMOUR SHIELD

Product Code		
COLOR	Quart	Gallon
BLACK HIGH GLOSS	VV1785	VV1786
OLD SAN JUAN HIGH GLOSS	VV3820	VV3821
BLACK FLAT	VV3822	VV3823

MANUFACTURER

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SECTION 2. HAZARDS IDENTIFICATION

WARNING: Vapors may be irritating to eyes, nose, throat and lungs.

May cause skin irritation and / or dermatitis.

Combustible material; Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded

GHS Ratings:

Flammable liquid	3	Flash point ≥ 73.4 °F (23°C) and ≤ 140 °F (60°C)
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: $\geq 2.3 < 4.0$ or persistent inflammation
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Reproductive toxin	1B	Presumed, Based on experimental animals

GHS Hazards

H226	Flammable liquid and vapour
H315	Causes skin irritation
H319	Causes serious eye irritation
H360	May damage fertility or the unborn child

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
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/light/.../equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P264	Wash ... thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection
P281 Use personal protective equipment as required

P321 Specific treatment (see ... on this label)
P362 Take off contaminated clothing and wash before reuse
P302+P352 IF ON SKIN: Wash with soap and water
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313 IF exposed or concerned: Get medical advice/attention
P332+P313 If skin irritation occurs: Get medical advice/attention
P337+P313 Get medical advice/attention

P370+P378 In case of fire: Use ... for extinction
P405 Store locked up
P403+P235 Store in a well ventilated place. Keep container tightly closed
P501 Dispose of contents/container in accordance with all local, regional, national and International regulations.

Signal Word: Danger



Product Repeated or prolonged exposure to organic solvents may lead to permanent brain and nervous system damage.

Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal. Components Cobalt and cobalt compounds are classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data; however, there is inadequate evidence in humans for its carcinogenicity. Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

None generally recognized.

No information available. Avoid repeated exposure

SECTION 3.COMPOSITION INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration Range (%)
Xylenes (o-, m-, p- isomers)	1330-20-7	28.00 - 30.00
Trade Secret	Inert	27.00 - 40.00
Limestone	1317-65-3	0.00 - 500
Mineral Spirits	64742-88-7	2.00 - 10.00
Ethylbenzene	100-41-4	2.00 - 3.00
Micronized Synthetic Iron oxide (Fe ₂ O ₃) Pigment	1309-37-1	0.00 – 10.00
Carbon Black	1333-86-4	3.00 – 5.00

SECTION 4. FIRST AID MEASURES

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

Eye Contact: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

Skin Contact: Wash affected area thoroughly with soap and plenty water. Remove contaminated clothes and shoes and launder before re-use.

Ingestion: Do not induce vomiting. Get medical attention immediately.

Notes to Physician: Treat symptomatically

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: 92°F (33° C)

LEL: 1.00

UEL: 6.00

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam

Unusual Fire/Explosive Hazards: Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Fire Fighting: 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.

Fire Equipment: Full protective equipment including self-contained breathing apparatus should be used.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill Leak Procedures: Comply with all applicable health and environmental regulation. Prevent further leakage or spillage if safe to do so.

Small Spills: Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

Large Spills: Dike and contain Spill. Eliminate all sources of ignition, evacuate all unnecessary personnel

SECTION 7. HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or sanding dust. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage: Store below 80° F. Keep away from heat, sparks and open flame

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING - Keep away from heat, sparks, and open flame. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition. Consult NFPA Code. Use approved Bonding and Grounding procedures. 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 CONTROL AND PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Xylenes (o-, m-, p- isomers) 1330-20-7	100 ppm TWA; 435 mg/m ³ TWA	150 ppm STEL 100 ppm TWA	Not Established
Trade Secret / Inert	Not Established	Not Established	Not Established
Limestone	15 mg/m ³ TWA (TOTAL DUST); 5 mg/m ³ TWA (Respirable fraction)	Not Established	NIOSH: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)
Mineral Spirits 64742-88-7	Not Established	Not Established	Not Established
Ethylbenzene 100-41-4	100 ppm TWA; 435 mg/m ³ TWA	20 ppm TWA	NIOSH: 100 ppm TWA; 435 mg/m ³ TWA 125 ppm STEL; 545 mg/m ³ STEL
Micronized Synthetic Iron oxide (Fe ₂ O ₃) Pigment 1309-37-1	10 mg/m ³ TWA (fume); 15 mg/m ³ TWA (total dust, listed under Rouge); 5 mg/m ³ TWA (respirable fraction, listed under Rouge)	5 mg/m ³ TWA (respirable fraction))	NIOSH: 5 mg/m ³ TWA (dust and fume, as Fe)
Carbon Black	3.5 mg/m ³ TWA	3 mg/m ³ TWA (inhalable fraction)	Not Established

Engineering: Use only with adequate ventilation. Avoid contact with skin and eyes. Avoid breathing vapor and spray mist. Wash hands after using. This coating 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, 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: Provide dilution ventilation or local exhaust to prevent buildup of vapors. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Administrative Controls: 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.

Eye/Face Protection: Safety glasses with side-shields.

Skin Protection: Protective gloves and impervious clothing.

Respiratory Protection: In case of mist, spray or aerosol exposures wear suitable personal respiratory protection and protective suit.

Contaminated Gear: Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Coloured Liquid	Odor:	Aromatic naphtha
Vapor Pressure:	Not measured	Odor threshold:	Not measured
0.96		pH:	No established limit
Specific Gravity (average):	0.96	Melting point/ Freezing point (°F/°C):	Not measured
Density (average : Lb/gal):	8.015	Water Solubility:	No information available
Boiling Point:	279°F (137°C)	Flash point (PMCC method):	92° F (33° C)
Evaporation rate:	No information available	Flammability (solid, gas):	Not applicable
Upper / Lower flammability or explosive limits: lower explosive limit: 1 / Upper explosive limited:	6	Partition coefficient (n- octanol/water):	No information available
Autoignition temperature(°F/°C):	No information available	Decomposition temperature:(°F/°C):	No information available
Viscosity (KU Stormer):	75 - 85	VOC (maximum – calculated):	450.00 grms/liter

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not data available

Chemical Stability: Stable under normal conditions. Hazardous polymerization does not occur

Conditions to avoid: Keep away from open flames, hot surfaces, static electricity and sources or ignition

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapors

Possibility of hazardous reactions: None under normal conditions of use

SECTION 11. TOXICOLOGICAL INFORMATION

Mixture Toxicity

Inhalation Toxicity LC50: 81mg/L

Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use.

To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

EFFECTS OF OVEREXPOSURE: Irritation of eyes, skin and upper respiratory system. It may cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

Component Toxicity

1330-20-7	Xylenes (o-, m-, p- isomers) Oral LD50: 3,500 mg/kg (Rat) Inhalation LC50: 29 mg/L (Rat)
100-41-4	Ethylbenzene Oral LD50: 3,500 mg/kg (Rat) Inhalation LC50: 17 mg/L (Rat)

Effects of Overexposure

CAS Number	Description	% Weight	Carcinogen Rating
100-41-4	Ethylbenzene	3	Ethylbenzene: IARC: Possible human carcinogen OSHA: listed
1333-86-4	Carbon Black	5	Carbon black: NIOSH potential occupational carcinogen. IARC: Possible human carcinogen OSHA: listed

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Effects: The environmental impact of this product has not been fully investigated

Product Information:

Acute Toxicity to fish: No information available

Acute Toxicity to Aquatic Invertebrates: No information available

Acute Toxicity to aquatic Plants: No information available

Persistence / Degradability: No information available

Bioaccumulation / Accumulation: no information available

Mobility in environmental media: No information available

Component Ecotoxicity

Xylenes (o-, m-, p- isomers)	96 Hr LC50 Pimephales promelas: 13.4 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 2.661 - 4.093 mg/L [static]; 96 Hr LC50 ncorhynchus mykiss: 13.5 - 17.3 mg/L; 96 Hr LC50 Lepomis macrochirus: 13.1 - 16.5 g/L [flow-through];
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96 Hr LC50 Lepomis macrochirus: 19 mg/L;
 96 Hr LC50 Lepomis macrochirus: 7.711 - 9.591 mg/L [static];
 96 Hr LC50 Pimephales promelas: 23.53 - 29.97 mg/L [static];
 96 Hr LC50 Cyprinus carpio: 780 mg/L [semi-static];
 96 Hr LC50 Cyprinus carpio: >780 mg/L;
 6 Hr LC50 Poecilia reticulata: 30.26 - 40.75 mg/L [static]
 48 Hr EC50 water flea: 3.82 mg/L;
 8 Hr LC50 Gammarus lacustris: 0.6 mg/L

Ethylbenzene

96 Hr LC50 Oncorhynchus mykiss: 11.0 - 18.0 mg/L [static];
 96 Hr LC50 Oncorhynchus mykiss: 4.2 mg/L [semi-static];
 96 Hr LC50 Pimephales promelas: 7.55 - 11 mg/L [flow-through];
 96 Hr LC50 Lepomis macrochirus: 32 mg/L [static];
 96 Hr LC50 Pimephales promelas: 9.1 - 15.6 mg/L [static];
 96 Hr LC50 Poecilia reticulata: 9.6 mg/L [static]
 48 Hr EC50 Daphnia magna: 1.8 - 2.4 mg/L
 72 Hr EC50 Pseudokirchneriella subcapitata: 4.6 mg/L;
 96 Hr EC50 Pseudokirchneriella subcapitata: >438 mg/L;
 72 Hr EC50 Pseudokirchneriella subcapitata: 2.6 - 11.3 mg/L [static];
 96 Hr EC50 Pseudokirchneriella subcapitata: 1.7 - 7.6 mg/L [static]

SECTION 13. DISPOSAL CONSIDERATIONS

Waste from these products may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with federal, state / provincial, and local regulations regarding pollution. Dry empty containers may be recycled in a can recycling program. Local requirements may vary; consult your sanitation department or state designated environmental protection agency for more disposal options

SECTION 14. TRANSPORT INFORMATION

	DOT Classification	IMDG Classification
UN number	UN 1263	UN 1263
Proper shipping name	PAINT	PAINT
Transport hazard class)	3	3
Packaging group	III	III
Additional information	Special provisions (ERG#128)	Emergency schedules (EmS) F-E, S-E

"According to the 49 CFR173.150 (b) (3) limited quantities of flammable liquids (class 3) and combustible liquids are exempted from labeling requirements for flammable liquids in Packing Group III and combustible liquids, inner packaging not over 5.0 L (1.3 gallons) net capacity each, packed in strong outer packaging".

"According to the IMDG Code Chapter 3.2 (7a) limited quantities of flammable liquids (class 3) and combustible liquids are exempted from labeling requirements for flammable liquids in Packing Group III and combustible liquids, inner packaging not over 5.0 L (1.3 gallons) net capacity each, packed in strong outer packagings".

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

SECTION 15. REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65 - WARNING: These products contain chemicals known to the State of California can to cause cancer and birth defects or other reproductive harm.

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

100-41-4 Ethylbenzene(max): 3 %

The following chemicals are reportable under SARA 311/312:

100-41-4 Ethylbenzene(max): 3 %

1330-20-7 Xylenes (o-, m-, p- isomers). max: 30 %

Country
USA

Regulation
TSCA

All Components Listed
No



EU Risk Phrases

Safety Phrase

64742-88-7 Mineral Spirits (max): 10.0%

Inert Trade Secret (max): 40.0%

1333-86-4 Carbon Black 5.0%

SECTION 16. OTHER INFORMATION

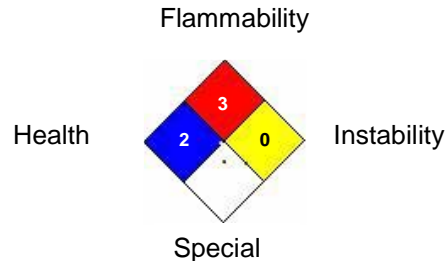
Hazardous Material Information System (HMIS)

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

HMIS & NFPA Hazard Rating

* = Chronic Health Hazard
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

National Fire Protection Association (NFPA)



The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, provincial, and local laws and regulations.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust or fumes. LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN.

PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a properly fitted NIOSH approved respirator and prevent skin contact to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the USEPA National lead Information Hotline at 1-800-424 LEAD or log on to www.epa.gov/lead.

Reviewer Revision

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