

MATERIAL SAFETY DATA SHEET

General Finishes Corporation

SECTION 1: Material Identification

Material Name: ARM-R-SEAL Heavy Duty Oil & Urethane Top Coat GLOSS, ARM-R-SEAL Heavy Duty Oil & Urethane Top Coat SATIN, ARM-R-SEAL Heavy Duty Oil & Urethane Top Coat SEMI-GLOSS

Revision Date: September 25, 2006

HMIS Ratings

Health: 2

Flammability: 2

Reactivity: 0

Manufacturer:

General Finishes Corp., 2462 Corporate Circle East Troy, WI 53120
(800) 783-6050

Emergency Phone Numbers:

(262) 642-4545

SECTION 2: Composition/Information on Ingredients

CAS #	Chemical Name	Percent	TLV	PEL
8052-41-3	Mineral spirits	20-40%	100 ppm TWA	400 ppm TWA
64742-47-8	Mineral spirits	10-20%	100 ppm TWA	400 ppm TWA
64742-48-9	Mineral spirits	5-10%	Not established	Not established
111-84-2	Nonane	5-10%	200 ppm TWA	200 ppm TWA
Proprietary	Oil modified urethane resin	10-35%	Not established	Not established
Proprietary	Resin	0-25%	Not established	Not established
95-63-6	1,2,4-Trimethylbenzene	0-1%	25 ppm TWA	25 ppm TWA

SECTION 3: Hazards Identification

* Emergency Overview *

Amber liquid, solvent odor. Combustible. Rags soaked in material may be subject to spontaneous combustion if not properly disposed of (See Section 7 of MSDS). May cause eye, skin or respiratory irritation, dizziness, headache, nausea.

Effects of Short-Term Overexposure:

Eyes: Irritation

Skin: Irritation, dermatitis upon prolonged exposure

Inhalation: Irritation, headache, dizziness, nausea

Ingestion: Irritation, nausea

Effects of Chronic Overexposure: Dermatitis

Material Exposure Limits: See Section 2 for information on ingredients.

Routes of Entry: Contact, inhalation, ingestion

Target Organs: Eyes, skin, respiratory system, nervous system

Cancer Rating: This material does not contain more than 0.1% of any chemical listed by NTP, IARC or OSHA as being carcinogenic.

Additional Information: Not applicable

SECTION 4: First Aid Measures

Eyes: Immediately flush eyes with plenty of water. Seek medical attention if irritation persists.

Skin: Remove contaminated clothing. Wash with soap and water. Seek medical attention if necessary.

Inhalation: If exposed to excessive levels, remove to fresh air. Seek medical attention if necessary.

Ingestion: Rinse mouth if conscious. Seek medical attention if necessary.

SECTION 5: Fire Fighting Measures

Flash Point: 105.0 °F

Method Used: PMCC (ASTM D93)

Flammable Limits (Percentage in air):

UEL: 7.0

LEL: 0.9

Extinguishing Media: Foam, carbon dioxide, dry chemical, water spray

Control Measures: Use self-contained breathing apparatus and full turn-out gear. Use water spray to cool containers.

Unusual Hazards: Closed containers may rupture or explode when exposed to extreme heat. Rags soaked in material may be subject to spontaneous combustion if not properly disposed of. (See Section 7 of MSDS)

SECTION 6: Accidental Release Measures

Spills: Use personal protective equipment. Ventilate area. Remove ignition sources. Contain spilled material and soak up with inert absorbant. Collect for disposal.

Releases to the air: Not applicable

SECTION 7: Handling and Storage

Handling: Avoid personal contact. Use with adequate ventilation. Wash after handling.

Storage requirements: Keep container closed and upright. Avoid high temperatures and flames.

Warning: Promptly soak all used rags in a water-filled container. Failure to do so may result in spontaneous combustion. Seal all soaked rags in a plastic bag for disposal.

SECTION 8: Exposure Controls and Personal Protection

Protective equipment:*

Eyes: Safety glasses or chemical goggles

Skin: Impervious gloves should be worn to prevent prolonged or repeated skin contact

Respiratory: A NIOSH/MSHA approved air-purifying respirator if exposure limits exceeded

Ventilation: Good general ventilation should be sufficient to control airborne levels.

Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Additional information: None

*Protective equipment should be determined by conditions of exposure.

SECTION 9: Physical and Chemical Properties

Appearance and Odor: Amber liquid, solvent odor

Specific gravity (water = 1): 0.85-0.86

Boiling point: > 300.0 °F

Melting/freezing point: ND

Percent volatile: 63-68% /wt

VOC: 63-68% /wt

Vapor pressure: ND

Vapor density (air = 1): ND

Evaporation rate (n-Butyl acetate = 1): ND

pH: NA

Solubility in water: ND

SECTION 10: Stability and Reactivity

Stability: Stable

Conditions to avoid: Not applicable

Hazardous polymerization: Not applicable

Conditions to avoid: Not applicable

Incompatibility: Strong oxidizers, strong alkalies

Hazardous decomposition products: CO, CO₂, nitrogen oxides, hydrogen cyanide, hydrocarbons

Unusual hazards: Not applicable

SECTION 11: Toxicological Information

No information available at this time.

SECTION 12: Ecological Information

No information required at this time.

SECTION 13: Disposal Procedures

Material and containers should be disposed in accordance with local, state and federal regulations.

Empty Container Warning: Empty containers retain residue (liquid and/or vapor) and can be dangerous. **Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.** Do not attempt to clean since residue is difficult to remove. Empty containers should be completely drained and properly disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 14: Transportation Information

DOT Hazard Classification: Combustible Liquid

SECTION 15: Regulatory Information

SARA Title III Section 302 Extremely Hazardous Substances above de minimis level: None

CERCLA Hazardous Substances above de minimis level: None

SARA Title III Section 313 Toxic Chemicals above de minimis level: None

California Proposition 65: WARNING: This product contains chemical(s) known to the State of California to cause cancer.

Benzene 71-43-2

California Proposition 65: WARNING: This product contains chemical(s) known to the State of California to cause birth defects or other reproductive harm.

Benzene 71-43-2

Toluene 108-88-3

VOC Data*:

Color	VOC lb/gal	VOC g/l	Color	VOC lb/gal	VOC g/l
Gloss	4.5	539.5			
Satin	4.81	576.53			
Semi-Gloss	4.80	575.80			

*Grams (pounds) of VOC per Liter (gallon) of coating, less water and less exempt compounds

SECTION 16: Other Information

Abbreviations:

NA - Not applicable

ND - Not determined

General Finishes believes that the information contained in this MSDS is correct as of this date. However, because the material may be used under conditions over which General Finishes has no control or in ways we cannot anticipate, we give no warranty, expressed or implied, as to the accuracy of the information. General Finishes assumes no responsibility for any damage to person, property or user of this material or to insure that it is properly and safely used.

End of MSDS