SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identifier : **Armstrong S-390 Shinekeeper**
Product Code : 700107131
Trade Name/Synonyms : S-390
Recommended Use : High durability, long lasting acrylic floor polish for residential flooring.
Uses Advised Against : Use only as recommended in the product's Technical Data Sheet.

Supplier's name and address:

AHF Products
3840 Hempland Rd.
Mountville, PA, USA 17554

Information Telephone No. : 866-243-2726
Website Address : https://www.ahfproducts.com/en-us
24 Hr Emergency Telephone # : **CHEM-TEL: 1-800-255-3924 OR 1-813-248-0585 (call collect)**

SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification per 29 CFR 1910.1200 (OSHA HCS 2012) and HPR (WHMIS 2015)
Not classified as hazardous.

GHS Pictograms
None.

Signal Word
None.

Hazard Statements
None.

Safe Handling Instructions: Avoid eye and skin contact. It is recommended to use safety glasses and gloves during handling. During installation process, adequate ventilation of the work area should be maintained. Persons who are sensitive to odors or chemicals should avoid the work area during installation. Keep container closed.

Hazards Not Otherwise Classified
None.

Percent Unknown Toxicity
Less than 1% by weight of this product is comprised of ingredients with unknown acute toxicity.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (by weight)
Diethylene glycol monoethyl ether	111-90-0	1 – 5

The exact amounts of the ingredients are considered trade secrets by the manufacturer and are not disclosed.

SECTION 4 – FIRST AID MEASURES

General : Call a doctor if you feel unwell.

Inhalation : If breathing problems develop, remove the person to fresh air and keep at rest in a position comfortable for breathing.

Skin contact : Wash with plenty of soap and water. If irritations or symptoms develop, seek medical attention/advice.

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

Ingestion : Rinse mouth. Do NOT induce vomiting. Call a doctor/physician if you feel unwell.

Notes for Physician : Treat symptomatically.

Signs and symptoms of short-term (acute) exposure

Inhalation : None known.

Skin : Symptoms may include mild redness or itching.

Eyes : Symptoms may include mild redness, itching, or pain.

Ingestion : None known.

Effects of long-term (chronic) exposure

: Long term exposure may cause skin irritation.

Indication of need for immediate medical attention or special treatment

: Difficulty breathing persists after removing the person to fresh air.

Any exposure to the eye which causes irritation.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide, dry chemical powder, foam, water jet or water spray.

Unsuitable extinguishing media : None known.

Hazardous combustion products : Carbon monoxide, carbon dioxide, phosphorus oxides, formaldehyde, as well as other toxic vapors and gases which are common to thermal degradation of organic compounds.

Special fire-fighting procedures/equipment

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. After fires have been extinguished, carefully clean all equipment and surfaces exposed to fumes.

Environmental precautions : Small amounts (< 1 gallon/3.8 Liters) of this product can be safely disposed of down drains. Flush with additional water.

Fire hazards/conditions of flammability

: Not flammable under normal conditions of use. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Flammability classification (OSHA 29 CFR 1910.1200, WHMIS 2015)

: Not flammable.

NFPA Rating : 0 – Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Severe

Health: 0 *Flammability* 1 *Instability* 0 *Special Hazards:* None

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions : Restrict access to area until completion of clean-up. All persons dealing with clean-up should wear the appropriate chemically protective equipment.

Protective equipment : Refer to Section 8 for additional information on acceptable personal protective equipment.

Emergency Procedures : This product does not contain chemicals requiring EPA notification for spills. In case of a chemical spill, call the emergency telephone number listed in Section 1.

US CERCLA Reportable quantity (RQ): None reported.

Methods and materials for containment and cleaning up

: Ventilate area of release. Stop spill or leak at source if safely possible. Contain product with inert absorbent material, preventing it from entering sewer lines or

waterways. Gather up spilled material and place in suitable container for later disposal (see Section 13).

Prohibited materials : None known.

Environmental precautions : Small amounts (< 1 gallon/3.8 Liters) of this product can be safely disposed of down drains. Flush with additional water.

Reference to other sections : See Section 13 for disposal information.

SECTION 7 – HANDLING AND STORAGE

Safe handling procedures : Wear suitable protective equipment during handling. (See Section 8.) Observe good hygiene standards. Use only with adequate ventilation. Wash thoroughly after handling. Avoid contact with eyes, skin, or clothing. Keep container tightly closed.

Storage requirements : Store in a cool, dry, well-ventilated area. Store away from heat and open flame. Avoid storing in direct sunlight. Store in original container. Keep tightly closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning.

Incompatible materials : See Section 10.

Special packaging materials : Always keep in containers made of the same materials as the supply container.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible Exposure Limits : No exposure limits have been established for the product itself. Below are exposure limits for the components in the product.

Ingredients	CAS #	ACGIH TLV		OSHA PEL	
		TWA	STEL	PEL	STEL
Diethylene glycol monoethyl ether	111-90-0	25 ppm (AIHA WEEL)	N/Av	N/Av	N/Av

Engineering Controls : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Ventilation should effectively remove and prevent buildup of any vapor generated from the handling of this product.

Personal Protection Equipment

Eye / face protection : Chemical goggles or safety glasses, as appropriate for the job.

Skin protection : Skin exposure to this product is generally not hazardous. Workers may choose to wear gloves which are impervious to the material, such as nitrile rubber.

Body protection : Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. Remove contaminated clothing and wash exposed skin.

Respiratory protection : Under normal conditions of use with adequate ventilation, respiratory protection should not be necessary. If work process generates excessive quantities of vapor or dust, or exposures in excess of any PEL, wear an appropriate organic vapor respirator.

Site safety equipment : An eyewash station should be made available in the immediate working area.

General hygiene considerations : Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Upon completion of work, wash hands thoroughly. Remove soiled clothing and wash it thoroughly before reuse. Clean all equipment and clothing at end of each work shift.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid	**Appearance**	: Watery, milky white liquid
Odor	: Not available	**Odor threshold**	: N/Av
pH	: 8.6	**Specific gravity**	: 1.024
Boiling point	: 212°F (100°C)	**Coefficient of water/oil distribution**	: N/Av
Melting/Freezing point	: N/Av	**Solubility in water**	: Dispersible
Vapor pressure (mm Hg @ 20°C / 68°F)	: N/Av	**Evaporation rate (*n*-Butyl acetate = 1)**	: N/Av
Vapor density (Air = 1)	: N/Av	**Volatiles (% by wt., includes water)**	: 80 – 85%
Volatile organic compounds (VOCs)	: 0% per CARB rules		

Particle size	:	N/Av	**Flammability classification**	:	Not flammable
Flash point	:	>110°C (>230°F)	**Lower flammable limit (% by vol)**	:	Not available
Flash point method	:	Setaflash closed	**Upper flammable limit (% by vol)**	:	Not available
Auto-ignition temperature	:	N/Av	**Decomposition temperature**	:	Not available
Viscosity	:	N/Av	**Oxidizing properties**	:	Not available

Explosion data: Sensitivity to mechanical impact / static discharge

: Not expected to be sensitive to mechanical impact or static discharge.

SECTION 10 – REACTIVITY AND STABILITY INFORMATION

Reactivity : Not reactive.

Stability : Stable under the recommended storage and handling conditions prescribed.

Hazardous reactions : Hazardous polymerization does not occur.

Conditions to avoid : Extreme heat.

Materials to avoid and incompatibility

: Strong oxidizing agents.

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of exposure : *Inhalation:* YES *Skin Absorption:* NO *Skin and Eyes:* Yes *Ingestion:* YES

Symptoms of exposure : See Section 4.

Calculated Acute Toxicity Estimates for the Product

Inhalation : > 80 mg/L

Oral : > 15000 mg/kg

Dermal : > 15000 mg/kg

Toxicological data : See below for individual ingredient acute toxicity data.

	LC50 (4 hr)	LD50	
Ingredients	Inhalation, rat	Oral, rat	Dermal, rabbit
Diethylene glycol monoethyl ether	5.24	5500	4200

Skin corrosion or irritation : May cause mild irritation to skin.

Serious eye damage / eye irritation : May cause mild, temporary irritation to eyes.

Respiratory or skin sensitization : None known.

Germ cell mutagenicity : None known.

Carcinogenic status : No components are classified as carcinogenic by IARC, ACGIH, NTP, and OSHA.

Reproductive toxicity : None known.

Specific Target Organ Toxicity, Single Exposure

: Pure Diethylene glycol monoethyl ether may cause Central Nervous System (CNS) effects when sprayed or heated. Due to this chemical's low vapor pressure and its low concentration in this product, this product is unlikely to cause narcotic effects.

Specific Target Organ Toxicity, Repeated Exposure

: None known.

Aspiration hazard : None known.

Additional information : N/Av

SECTION 12 – ECOLOGICAL INFORMATION

Environmental effects : Large quantities of this product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

Ecotoxicity : No data available.

Biodegradability	:	No data available.
Bioaccumulative potential	:	No data available.
Mobility in soil	:	No data available.
PBT and vPvB assessment	:	No data available.
Other adverse effects	:	No data available.

SECTION 13 – DISPOSAL CONSIDERATION

Handling for disposal	:	Handle waste according to recommendations in Section 7.
Methods of disposal	:	Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
Packaging	:	Handle contaminated packaging in the same manner as the product.
RCRA	:	For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14 – TRANSPORTATION INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	**None**	This product is not regulated according to Canadian TDG regulations.	**None**	**None**	**None**
TDG Additional Information	**None**				
. Not 49 CFR/DOT	**None**	This product is not regulated according to US DOT regulations.	**None**	**None**	**None**
49 CFR/DOT Additional Information	**None**				

IATA	:	Not regulated for Air Transport
IMDG	:	Not regulated for Ocean Transport. Not classified as a Marine Pollutant.

SECTION 15 – REGULATORY INFORMATION

Canadian Information:

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR). This SDS contains all of the information required by the HPR.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on either the Domestic Substances List (DSL) or the Non- Domestic Substances List (NDSL).

US Federal Information:

TSCA: All ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Not Hazardous.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This product is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above *de minimus* concentrations.

U.S. State Right to Know Laws

California Proposition 65: See product label for information regarding Proposition 65.

Other State Right to Know Laws: Diethylene glycol monoethyl ether [CAS# 111-90-0] Not specifically listed on any state RTK regulations, but generic Glycol ethers are listed by NJ, PA and RI.

SECTION 16 – OTHER INFORMATION

HMIS Rating : * - Chronic Hazard 0 - Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Severe
Health: 0 *Flammability* 1 *Physical Hazard:* 0 PPE: Gloves, safety glasses

Legend : ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
DOT: Department of Transportation
DSL: Domestic Substances List
EPA: Environmental Protection Agency
GHS: Globally Harmonized System
HPR: Hazardous Products Regulations
IARC: International Agency for Research on Cancer
Inh: Inhalation
N/Av: Not Available
N/Ap: Not Applicable
NIOSH: National Institute of Occupational Safety and Health
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible exposure limit
RCRA: Resource Conservation and Recovery Act
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

Disclaimer of Liability

The Information presented herein is supplied as a guide to those who handle or use this product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive. The manner and conditions of use and handling may involve other and additional considerations. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.
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