

Armstrong World Industries 2500 Columbia Ave. Lancaster, PA USA 17603 Telephone: (800) 233-3823

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SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

: Armstrong S-495 **Product Identifier**

Product Code 70010763 Trade Name/Synonyms S-495

Commercial Floor Sealer. Recommended Use Uses Advised Against : No information available.

Supplier's name and address: Armstrong World Industries, Inc.

2500 Columbia Ave.

Lancaster, PA, USA 17603

Information Telephone No. : (800) 233-3823

Website Address : http://www.floorexpert.com

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)

Eye Damage/Irritation, Category 2B Skin Corrosion/Irritation, Category 2.

GHS Pictograms



Signal Word

Warning.

Hazard Statements

Causes eye and skin irritation.

Precautionary Statements

Wear protective gloves/protective clothing/eye protection. Wash hands and exposed skin thoroughly after handling. Take off contaminated clothing and wash before reuse.

Hazards Not Otherwise Classified

None.

% with Unknown Acute Toxicity

2% of this product consists of ingredients with unknown acute toxicity.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS#	% (by weight)
2-(2-Butoxyethoxy)ethanol	112-34-5	1.00 - 5.00
Diethylene glycol monoethyl ether	111-90-0	1.00 - 5.00



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Tris(2-butoxyethyl) phosphate	78-51-3	1.00 - 5.00
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The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

SECTION 4 – FIRST AID MEASURES

General : Call a Poison Center or doctor if you feel unwell.

Inhalation If inhaled, remove victim to fresh air and keep at rest in a position comfortable for

breathing.

Skin contact : Remove/Take off immediately all contaminated clothing. 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.

Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or

doctor/physician if you feel unwell.

: Treat symptomatically.

Signs and symptoms of short-term (acute) exposure

Inhalation : Under normal conditions of use, not expected to cause respiratory symptoms.

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

Ingestion : Symptoms such as gastric pain, nausea, vomiting, and diarrhea may occur.

Effects of long-term (chronic) exposure

Ingestion

Notes for Physician

: None known.

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, alcohol foam or water spray.

Unsuitable extinguishing media : Water jet may spread the burning material.

Hazardous combustion products Carbon monoxide, carbon dioxide, 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 : Do not allow material to enter drains or contaminate ground water system.

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: 1 Flammability 1 Instability 0 Special Hazards:

SECTION 6 – ACCIDENTAL RELEASE MEASURES



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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 on this Safety Data Sheet, EXPOSURE CONTROLS /

PERSONAL PROTECTION, for additional information on acceptable personal

protective equipment.

Emergency Procedures If a spill/release in excess of the EPA reportable quantity is made into the

environment, immediately notify the national response center in the United States

(phone: 1-800-424-8002).

US CERCLA Reportable quantity (RQ): None reported.

Methods and materials for containment and cleaning up

Ventilate area of release. Eliminate all ignition sources. 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). Residual of product, while still wet, can be cleaned up with warm soapy water. Notify the appropriate authorities as

required.

Prohibited materials None known.

Environmental precautions Do not allow product to enter drains or waterways. Do not allow material to

contaminate ground water system.

Reference to other sections : See Section 14 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. Avoid repeated or prolonged skin contact. Avoid breathing vapors or mists of this product. Wear protective clothing to prevent skin contact. Promptly remove any clothing that becomes contaminated. Clean contaminated clothing before reuse. Keep container tightly

closed.

Store in a cool, dry, well-ventilated area. Store away from heat and open flame. Storage requirements

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
2-(2-Butoxyethoxy)ethanol	112-34-5	N/Av	N/Av	N/Av	N/Av
Diethylene glycol monoethyl ether	111-90-0	25 ppm WEEL USA	N/Av	N/Av	N/Av
Tris(2-butoxyethyl) phosphate	78-51-3	N/Av	N/Av	N/Av	N/Av

: Use general or local exhaust ventilation to maintain air concentrations below **Engineering Controls**

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.



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Skin protection : Wear gloves which are impervious to the material. Materials such as nitrile rubber

or Viton (fluorocarbon rubber) are recommended. Consult with glove manufacturers

regarding breakthrough time for this material.

Body protection : Where extensive exposure to product is possible, use resistant coveralls, apron and

boots to prevent contact.

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 and safety shower should be made available in the immediate

working area.

General hygiene considerations : Avoid contact with eyes, skin and clothing. Avoid breathing vapors/dust. Upon

completion of work, wash hands thoroughly. Remove soiled clothing and wash it

thoroughly before reuse.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid Appearance : Milky white liquid

Odor : Mild **Odor threshold** : N/Av рΗ : 7.5 - 8.0Specific gravity : 1.02 **Boiling** point : 212°F (100°C) Coefficient of water/oil distribution : N/Av Melting/Freezing point Solubility in water : Miscible : N/Av Vapor pressure (mm Hg @ 20°C / 68°F) : N/Av Evaporation rate (n-Butyl acetate = 1) : N/Av Vapor density (Air = 1) Volatiles (% by weight) : 80 - 84% : N/Av

Volatile organic compounds (VOCs) : 0.0% VOC per CARB rules; 262 g/L SCAQMD Method 304.

Particle size : N/Av Flammability classification : Not flammable Flash point : >100°C (>212°F) Lower flammable limit (% by vol) : Not available : Setaflash closed Upper flammable limit (% by vol) : Not available Flash point method **Auto-ignition temperature** : N/Av **Decomposition temperature** : Not available : Not available Viscosity : N/Av **Oxidizing properties**

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 incompatability

: 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

 $\begin{array}{lll} \textit{Inhalation} & : & > 50 \text{ mg/L} \\ \textit{Oral} & : & > 10,000 \text{ mg/kg} \end{array}$



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Dermal : > 10,000 mg/kg

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

	LC50 (4 hr)	LD50		
Ingredients	Inhalation, rat, mg/L	Oral, rat, mg/kg	Dermal, rabbit, mg/kg	
2-(2-Butoxyethoxy)ethanol	N/Av	7292	2764	
Diethylene glycol monoethyl ether	> 5.24	5500	4200	
Tris(2-butoxyethyl) phosphate	> 6.4	3000	> 2050	

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

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

Respiratory or skin sensitization : None known.

Germ cell mutagenicity : None known.

Carcinogenic status : No components present at 0.1% or greater are listed as carcinogens by ACGIH,

IARC, OSHA or NTP.

Reproductive toxicity : None known. Specific Target Organ Toxicity, Single Exposure

: None known.

Specific Target Organ Toxicity, Repeated Exposure

: None known.

Aspiration hazard : None known.
Additional information : N/Av

SECTION 12 – ECOLOGICAL INFORMATION

Environmental effects : The 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 : You must test your waste using methods described in 40 CFR Part 261 to

determine if it meets applicable definitions of hazardous wastes. 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 : If this product, as supplied, becomes a waste in the United States, it may meet the

criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. 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	None	None	None



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		TDG regulations.			
TDG Additional Information	None				
49 CFR/DOT	None	This product is not regulated according to US DOT regulations.	None	None	None
49 CFR/DOT Additional Information	None			I	1

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 listed 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: Immediate (Acute) health hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This product may be subject to SARA notification requirements. It contains glycol ethers: 2-(2-Butoxyethoxy)ethanol; Diethylene glycol monoethyl ether.

U.S. State Right To Know Laws

California Proposition 65: Warning! This product contains a chemical known to the State of California to cause cancer and/or reproductive harm.

Other State Right to Know Laws: Glycol ethers (NJ, PA, RI).

HMIS Rating : * - Chronic Hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

> Health: 1 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



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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

WEEL: Workplace Environmental Exposure Levels

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.

No warranty of any kind is given or implied. Armstrong World Industries, Inc. will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

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Visit our Website: http://www.floorexpert.com

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