

SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identifier : **Armstrong S-326 New Beginning**
Product Code : 70010693
Trade Name/Synonyms : S-326
Recommended Use : Extra-Strength Floor Cleaner and Wax Remover.
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)

Skin corrosion/irritation; Category 1
Eye corrosion/irritation; Category 1
Carcinogenicity; Category 2
Specific target organ toxicity, repeated exposure; Category 2

GHS Pictograms



Signal Word

Danger.

Hazard Statements

Causes severe skin burns and eye damage.
May cause damage to organs (Central Nervous System, Liver, Kidneys, and Blood) through prolonged or repeated exposure.
Suspected of causing cancer.

Precautionary Statements

Do not handle until all safety precautions have been read and understood. Do not breathe gas/mist/vapors/spray. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye protection. Wash hands and exposed skin thoroughly after handling. Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents / container in accordance with federal, state, and local laws.

Hazards Not Otherwise Classified

None.

% with Unknown Acute Toxicity

4% of this product consists of ingredients with unknown acute toxicity.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (by weight)
Sodium metasilicate	6834-92-0	1.00 – 5.00
2-Butoxyethanol	111-76-2	1.00 – 5.00
Cocamide DEA	68603-42-9	1.00 – 5.00
Monoethanolamine	141-43-5	1.00 – 5.00
Diethanolamine	111-42-2	0.10 – 0.50

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 person 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.
- Ingestion** : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
- Notes for Physician** : Treat symptomatically.

Signs and symptoms of short-term (acute) exposure

- Inhalation* : Symptoms may include coughing and shortness of breath.
- Skin* : Symptoms may include redness and itching. Some components may be absorbed through the skin.
- Eyes* : Symptoms may include redness, itching, or pain.
- Ingestion* : Symptoms such as gastric pain, nausea, vomiting, and diarrhea may occur. If large amounts are ingested, symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness, and other central nervous system effects.

Effects of long-term (chronic) exposure

- : Prolonged inhalation may cause adverse lung effects with symptoms such as pulmonary edema (fluid accumulation). Repeated absorption may cause damage to central nervous system, liver, kidneys, and blood.

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 or damage.
- Exposure to the skin that causes a chemical burn.
- Ingestion

SECTION 5 – FIRE FIGHTING MEASURES

- Suitable extinguishing media** : Carbon dioxide, dry chemical powder, Class B fire fighter foam or water spray.
- Unsuitable extinguishing media** : Water jet. May spread fire.
- Hazardous combustion products** : Carbon monoxide, carbon dioxide, ammonia, nitrogen oxides (NO_x) and 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 large quantities to enter drains.

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. Ammonia gas may be liberated at high temperatures.

Flammability classification (OSHA 29 CFR 1910.1200, WHMIS 2015)

- : Not flammable under normal conditions of handling.

NFPA Rating

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

Health: 3 Flammability 1 Instability 0 Special Hazards: None

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions : Corrosive! 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 : 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): Diethanolamine: 100 lbs (45.4 kg).
This is equivalent to > 20,000 lbs. (> 9090 kg) of product.

Methods and materials for containment and cleaning up

- : Ventilate area of release. Eliminate all sources of ignition. 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 : Small amounts of this product may be flushed down drains, with dilution. Do not allow large amounts of this product to enter drains or waterways. Do not allow material to contaminate ground water system.

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

SECTION 7 – HANDLING AND STORAGE

Safe handling procedures : Observe good hygiene standards. Use only with adequate ventilation. Do not eat, drink, or smoke in the work area. Wash thoroughly after handling. Do not get in eyes, on skin, or on 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.

Storage requirements : Store in a cool, dry, well-ventilated area. Store away from heat and open flame. Keep tightly closed when not in use. Thoroughly rinse empty container before disposal.

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
Sodium metasilicate	6834-92-0	N/Av	N/Av	N/Av	N/Av
2-Butoxyethanol	111-76-2	20 ppm	N/Av	50 ppm (skin)	N/Av
Cocamide DEA	68603-42-9	N/Av	N/Av	N/Av	N/Av
Diethanolamine	111-42-2	1 mg/m ³ (skin)	N/Av	3 ppm (15 mg/m ³)	N/Av
Monoethanolamine	141-43-5	3 ppm	6 ppm	3 ppm	6 ppm

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** : Wear gloves which are impervious to the material. Glove 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** : 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. Do not eat, drink, or smoke when using this product. 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 | : Green |
| Odor | : Citrus odor | Odor threshold | : N/Av |
| pH | : 12.5 – 12.9 | Specific gravity | : 1.01 |
| Boiling point | : 212°F (100°C) | Coefficient of water/oil distribution | : N/Av |
| Melting/Freezing point | : N/Av | Solubility in water | : Soluble |
| Vapor pressure (mm Hg @ 20°C / 68°F) | : N/Av | Evaporation rate (<i>n</i>-Butyl acetate = 1) | : N/Av |
| Vapor density (Air = 1) | : N/Av | Volatiles (% by weight) | : 96 % |
| Volatile organic compounds (VOCs) | : 3.9%, per CARB regulations | | |
| Particle size | : N/Av | Flammability classification | : Not flammable |
| Flash point | : >93.3°C (200°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 | : Not available | 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** : High temperatures.
- Materials to avoid and incompatibility**

: Strong oxidizing agents; Acids; halogenated compounds; Alkali metals.

Hazardous decomposition products

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

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of exposure : *Inhalation:* YES *Skin Absorption:* YES *Skin and Eyes:* YES *Ingestion:* YES

Symptoms of exposure : See Section 4.

Acute Toxicity Estimate : Acute Toxicity Estimate (ATE) is a calculated estimate of the acute toxicological properties of a mixture, based on the LC50 and LD50s of the ingredients and their respective weight fractions of the mixture. It provides information when test data is not available for the mixture itself. See 29 CFR 1910.1200, Appendix A, paragraph A.1.3.6.2 for a description of the ATE.

ATE Inhalation, 4 hr, rat : > 50 mg/L

ATE Oral, rat : > 20000 mg/kg

ATE Dermal, rabbit : > 40000 mg/kg

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

Ingredients	LC50 (4 hr)	LD50	
	Inhalation, rat, mg/L	Oral, rat, mg/kg	Dermal, rabbit, mg/kg
Sodium metasilicate	N/Av	1153	> 4640
2-Butoxyethanol	2.17	1746	N/Av
Cocamide DEA	N/Av	2700	N/Av
Diethanolamine	3.35	710	12200
Monoethanolamine	2.42	1720	1025

Skin corrosion or irritation : Corrosive to skin.

Serious eye damage / eye irritation : Corrosive to eyes.

Respiratory or skin sensitization : Not expected to cause skin or respiratory sensitization reactions.

Germ cell mutagenicity : None known.

Carcinogenic status : This product contains Diethanolamine and Cocamide DEA. These materials are each classified as *possibly* carcinogenic to humans by IARC (Group 2B). Tests on these chemicals have shown inadequate evidence for carcinogenicity in humans but sufficient evidence of carcinogenicity in animals. In a two-year study of dermal exposure of mice to Diethanolamine, liver tumors were found. See RTECS KL2975000.
No other components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive toxicity : None known.

Specific Target Organ Toxicity, Single Exposure

: May cause respiratory irritation.

Overexposure to concentrated 2-Butoxyethanol is known to cause Central Nervous System effects (headache, dizziness, drowsiness, nausea), especially via absorption through the skin. Due to its low concentration in this product, 2-Butoxyethanol is unlikely to cause these symptoms under normal conditions of use.

Specific Target Organ Toxicity, Repeated Exposure

: Repeated exposure to 2-Butoxyethanol can cause central nervous system, liver, kidney, and blood disorders.

Aspiration hazard : None known.

Additional information : N/Av





SECTION 12 – ECOLOGICAL INFORMATION

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 : 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	UN 1760	Corrosive liquids, n.o.s. (Contains: (Sodium metasilicate; Monoethanolamine))	8	III	
TDG Additional Information	This product ships as a Limited Quantity per TDGR 1.17.				
49 CFR/DOT	UN 1760	Corrosive liquids, n.o.s. (Contains: (Sodium metasilicate; Monoethanolamine))	8	III	
49 CFR/DOT Additional Information	This product ships as a Limited Quantity per 49 CFR 173.154 (b)..				

IATA

UN No : UN1760
Proper Shipping Name : CORROSIVE LIQUID, N.O.S. (Sodium metasilicate; Monoethanolamine)
Hazard Class : Class 8
Packing Group : PG III

IMDG

UN No : UN1760
Proper Shipping Name : CORROSIVE LIQUID, N.O.S. (Sodium metasilicate; Monoethanolamine)
Hazard Class : Class 8
Packing Group : PG III

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 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): Diethanolamine: 100 lbs (45.4 kg).

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: This product does not contain an Extremely Hazardous Substance under SARA Section 302.

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:

Skin corrosion/irritation; Category 1
Carcinogenicity; Category 2
Reproductive toxicity; Category 2
Specific target organ toxicity, repeated exposure; Category 2
Specific target organ toxicity, single exposure; Respiratory tract irritation;
Category 3

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The threshold for this product is 10,000 pounds.

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 their *de minimus* concentrations.

U.S. State Right To Know Laws

California Proposition 65: Refer to the product label for information regarding Proposition 65.

Other State Right to Know Laws:

Ingredient	CAS NO.	CA	MA	MN	NJ	NY	PA	RI
2-Butoxyethanol	111-76-2	YES	YES	YES	YES	No	YES	YES
Cocamide DEA	68603-42-9	No	No	YES	No	No	No	No
Monoethanolamine	141-43-5	YES	YES	No	YES	No	YES	YES
Diethanolamine	111-42-2	YES	YES	No	YES	YES	YES	YES

SECTION 16 – OTHER INFORMATION

HMIS Rating : * - Chronic Hazard 0 - Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Severe
Health: *3 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 determines the adequacy of the safety procedures employed during the use of this product. No warranty of any kind is given or implied. AHF Products 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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