

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 10/4/2023 Version: 1.0

SECTION 1: Identification		
1.1. Identification		
Product form Substance name	: Substance : S-325 Armstrong New Beginnings Floor Stripper	
1.2. Recommended use and restrictions on use		
Use of the substance/mixture Restrictions on use	: Cleaning/washing agents and additives : None known	
1.3. Supplier		
AHF Products 3840 Hempland Road Mountville, PA, 17554 T (717) 251-1073		
1.4. Emergency telephone number		
Emergency number	: CHEM-TEL 1-800-255-3924 OR 1-813-248-9585 (call collect)	
SECTION 2: Hazard(s) identification		
2.1. Classification of the substance or m	nixture	
GHS US classification Skin corrosion/irritation Category 1 Serious eye damage/eye irritation Category 1 Carcinogenicity Category 2 Full text of H statements : see section 16	H314Causes severe skin burns and eye damageH318Causes serious eye damageH351Suspected of causing cancer	
2.2. GHS Label elements, including prec	autionary statements	
GHS US labeling		
Hazard pictograms (GHS US)		
Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US)	 Danger H314 - Causes severe skin burns and eye damage H318 - Causes serious eye damage H351 - Suspected of causing cancer P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe dust/fume/gas/mist/vapors/spray. P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. 	

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously 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.

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P310 - Immediately call a poison center or doctor.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name

: S-325 Armstrong New Beginnings Floor Stripper

Name	Product identifier	%	GHS US classification
Water	CAS-No.: 7732-18-5	60 - 100	Not classified.
Ethanolamine	CAS-No.: 141-43-5	2	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318
2-Butoxyethanol	CAS-No.: 111-76-2	1.9	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Sodium metasilicate	CAS-No.: 6834-92-0	1 – 1.4	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Coconut diethanolamide	CAS-No.: 68603-42-9	0.45 – 0.6	Skin Irrit. 2, H315 Eye Dam. 1, H318 Carc. 2, H351
Diethanolamine	CAS-No.: 111-42-2	0.1 – 0.26	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Carc. 2, H351 STOT RE 2, H373

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

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SECTION 4: First-aid measures 4.1. Description of first aid measures First-aid measures general : Call a physician immediately. First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing. : First-aid measures after skin contact Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a • physician immediately. : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to First-aid measures after eye contact do. Continue rinsing. Call a physician immediately. : Rinse mouth. Do not induce vomiting. Call a physician immediately. First-aid measures after ingestion 4.2. Most important symptoms and effects (acute and delayed) Symptoms/effects after skin contact : Burns. Symptoms/effects after eye contact : Serious damage to eyes. Symptoms/effects after ingestion : Burns.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguishing media			
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.		
5.2. Specific hazards arising from the chemical			
Hazardous decomposition products in case of fire	: Toxic fumes may be released.		
5.3. Special protective equipment and precautions for fire-fighters			
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equip	ment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	 Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. 	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for containment	and cleaning up	
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.	
Other information	: Dispose of materials or solid residues at an authorized site.	

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6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
-	Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions :	Store locked up. Store in a well-ventilated place. Keep cool.	
SECTION 8: Exposure controls/personal	protection	
8.1. Control parameters		
S-325 Armstrong New Beginnings Floor Strip	per	
No additional information available		
Water (7732-18-5)		
No additional information available		
Sodium metasilicate (6834-92-0)		
No additional information available		
Coconut diethanolamide (68603-42-9)		
No additional information available		
Diethanolamine (111-42-2)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	1 mg/m³ (inhalable fraction and vapor)	
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans, Skin - potential significant contribution to overall exposure by the cutaneous route	
Ethanolamine (141-43-5)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA [ppm]	3 ppm	
ACGIH OEL STEL [ppm]	6 ppm	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL (TWA) [1]	6 mg/m³	
OSHA PEL (TWA) [2]	3 ppm	
2-Butoxyethanol (111-76-2)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA [ppm]	20 ppm	

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2-Butoxyethanol (111-76-2)		
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans	
JSA - ACGIH - Biological Exposure Indices		
BEI (BLV)	200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling time: end of shift	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL (TWA) [1]	240 mg/m³	
OSHA PEL (TWA) [2]	50 ppm	
Limit value category (OSHA)	prevent or reduce skin absorption	
8.2. Appropriate engineering controls Appropriate engineering controls : Ensure good ventilation of the work station. Environmental exposure controls : Avoid release to the environment. 8.3. Individual protection measures/Personal protective equipment Hand protection:		
Hand protection:	Personal protective equipment	
Hand protection: Protective gloves	Personal protective equipment	
Hand protection:	Personal protective equipment	
Hand protection: Protective gloves Eye protection: Safety glasses	Personal protective equipment	
Hand protection: Protective gloves Eye protection: Safety glasses Skin and body protection:	Personal protective equipment	
Hand protection: Protective gloves Eye protection:	Personal protective equipment	



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Color	: Green
Odor	: citrus-like
Odor threshold	: No data available
рН	: 12 – 13
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: > 93.3 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability	: Not applicable.
Vapor pressure	: No data available

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Relative vapor density at 20°C Relative density Solubility Partition coefficient n-octanol/water (Log Pow) Auto-ignition temperature Decomposition temperature Viscosity, kinematic Viscosity, dynamic Explosion limits Explosive properties	 No data available 1 No data available
Explosive properties Oxidizing properties	: No data available : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (dermal)	Not classified. Not classified. Not classified.	
Water (7732-18-5)		
LD50 oral rat	> 90 ml/kg	
Sodium metasilicate (6834-92-0)		
LD50 oral rat	1153 mg/kg	
Coconut diethanolamide (68603-42-9)		
LD50 oral rat	> 5000 mg/kg (Source: CHEMVIEW)	
LD50 dermal rabbit	> 2 g/kg (Source: EPA_HPV)	

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Diethanolamine (111-42-2)		
LD50 oral rat	780 mg/kg (Source: NTP)	
LD50 dermal rabbit	11.9 ml/kg (Source: NLM_HSDB)	
ATE US (oral)	780 mg/kg body weight	
ATE US (dermal)	13034.07 mg/kg body weight	
Ethanolamine (141-43-5)		
LD50 oral rat	1720 mg/kg	
LD50 dermal rabbit	1000 mg/kg	
LC50 Inhalation - Rat	> 1.3 mg/l (Exposure time: 6 h)	
ATE US (oral)	1720 mg/kg body weight	
ATE US (dermal)	1000 mg/kg body weight	
ATE US (dust, mist)	1.5 mg/l/4h	
2-Butoxyethanol (111-76-2)	·	
LD50 oral rat	470 mg/kg	
LD50 dermal rabbit	435 mg/kg	
LC50 Inhalation - Rat [ppm]	486 ppm/4h	
ATE US (oral)	500 mg/kg body weight	
ATE US (dermal)	1100 mg/kg body weight	
ATE US (dust, mist)	1.5 mg/l/4h	
	Causes severe skin burns.	
	pH: 12 – 13 Causes serious eye damage.	
	pH: 12 – 13	
1 5	Not classified.	
	Not classified.	
	Suspected of causing cancer.	
Coconut diethanolamide (68603-42-9)		
IARC group	2B - Possibly carcinogenic to humans	
In OSHA Hazard Communication Carcinogen list	Yes	
Diethanolamine (111-42-2)		
IARC group	2B - Possibly carcinogenic to humans	
In OSHA Hazard Communication Carcinogen list	Yes	
2-Butoxyethanol (111-76-2)		
IARC group	3 - Not classifiable	
1 5	Not classified.	
STOT-single exposure :	Not classified.	
Sodium metasilicate (6834-92-0)		
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure :	Not classified.	

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Diethanolamine (111-42-2)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
	Not classified. No data available
Symptoms/effects after eye contact :	Burns. Serious damage to eyes. Burns.

SECTION 12: Ecological information

12.1. Toxicity	
Ecology - general :	Before neutralisation, the product may represent a danger to aquatic organisms.
Sodium metasilicate (6834-92-0)	
LC50 - Fish [1]	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
LC50 - Fish [2]	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
Coconut diethanolamide (68603-42-9)	
LC50 - Fish [1]	3.6 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static] Source: IUCLID)
Diethanolamine (111-42-2)	
LC50 - Fish [1]	4460 – 4980 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
EC50 - Crustacea [1]	55 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	1200 – 1580 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
Ethanolamine (141-43-5)	
LC50 - Fish [1]	227 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	65 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	3684 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
2-Butoxyethanol (111-76-2)	
LC50 - Fish [1]	1490 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [1]	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	2950 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential		
Diethanolamine (111-42-2)		
BCF - Fish [1]	(no significant bioconcentration)	
Partition coefficient n-octanol/water (Log Pow)	-2.46 (at 25 °C (at pH 6.8-7.3)	
Ethanolamine (141-43-5)		
Partition coefficient n-octanol/water (Log Pow)	-2.3 (at 25 °C (at pH 6.8-7.3)	

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2-Butoxyethanol (111-76-2)		
Partition coefficient n-octanol/water (Log Pow)	0.81 (at 25 °C (at pH 7)	
12.4. Mobility in soil		
No additional information available		
12.5. Other adverse effects		
No additional information available		
SECTION 13: Disposal considerations		
13.1. Disposal methods		

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport infor	mation		
In accordance with DOT / IMDG / IATA			
14.1. UN number			
DOT NA No UN-No. (IMDG) UN-No. (IATA)	: UN1760 : 1760 : 1760		

14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Corrosive liquids, n.o.s. (Ethanolamine, solutions)
Proper Shipping Name (TDG)	: CORROSIVE LIQUID, N.O.S. (Ethanolamine, solutions)
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, N.O.S. (Ethanolamine, solutions)
Proper Shipping Name (IATA)	: Corrosive liquid, n.o.s. (Ethanolamine, solutions)

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) Hazard labels (DOT)



: 8

IMDG

Transport hazard class(es) (IMDG) Hazard labels (IMDG)



: 8 : 8

ΙΑΤΑ

Transport hazard class(es) (IATA)	
Hazard labels (IATA)	

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14.4. Packing group	
Packing group (DOT) Packing group (IMDG) Packing group (IATA)	: III : III : III
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT UN-No.(DOT) DOT Special Provisions (49 CFR 172.102)	 UN1760 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T7 - 4 178.274(d)(2) Normal 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) DOT Vessel Stowage Location	: 60 L
, i i i i i i i i i i i i i i i i i i i	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
IMDG Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) Properties and observations (IMDG)	 223, 274 5 L E1 P001, LP01 IBC03 T7 TP1, TP28 F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES A Causes burns to skin, eyes and mucous membranes.
PCA Excepted quantities (IATA) PCA Limited quantities (IATA)	: E1 : Y841
PCA limited quantity max net quantity (IATA)	: 1L
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PCA packing instructions (IATA)	: 852	
PCA max net quantity (IATA)	: 5L	
CAO packing instructions (IATA)	: 856	
CAO max net quantity (IATA)	: 60L	
Special provision (IATA)	: A3, A803	
ERG code (IATA)	: 8L	

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information	n	
15.1. US Federal regulations		
S-325 Armstrong New Beginnings Floor	r Stripper	
SARA Section 311/312 Hazard Classes	Section 311/312 Hazard Classes Health hazard - Carcinogenicity Health hazard - Serious eye damage or eye irritation Health hazard - Skin corrosion or Irritation	
All components of this product are present and (TSCA) inventory	listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act	

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Diethanolamine (111-42-2)		
Listed on EPA Hazardous Air Pollutant (HAPS)		
CERCLA RQ 100 lb		
15.2. International regulations		
Coconut diethanolamide (68603-42-9)		
Listed on IARC (International Agency for Research on Cancer) Listed on TECI (Thailand Existing Chemicals Inventory)		
Diethanolamine (111-42-2)		

Listed on IARC (International Agency for Research on Cancer) Listed on TECI (Thailand Existing Chemicals Inventory)

15.3. US State regulations

This product can expose you to Coconut oil acid diethanolamide condensate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
Diethanolamine(111-42-2)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List; U.S Massachusetts - Right To Know List; U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List

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Component	State or local regulations
Ethanolamine(141-43-5)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List; U.S Massachusetts - Right To Know List
2-Butoxyethanol(111-76-2)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List; U.S Massachusetts - Right To Know List

SECTION 16: Other information

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Full text of H-phrases	
H227	Combustible liquid
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure

Safety Data Sheet (SDS), USA - HSI

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