

SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identifier : **S-338 Once 'N Done Floor Cleaner Concentrate**
Product Code : 700107034
Trade Name/Synonyms : S-338
Recommended Use : Floor Cleaner Concentrate.
Uses Advised Against : No information available.

Supplier's name and address:

Armstrong Flooring, 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 +0 1-813-248-0585 (call collect)

SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification per 29 CFR 1910.1200 (OSHA HCS 2012) and HPR (WHMIS 2015)

Acute toxicity, inhalation, Category 4
Skin corrosion/irritation; Category 2
Serious eye damage/eye irritation; Category 2A
Carcinogenicity; Category 2
Specific target organ toxicity, single exposure; Respiratory tract irritation;
Category 3
Specific target organ toxicity, repeated exposure; Category 2

GHS Pictograms



Signal Word

Warning.

Hazard Statements

Harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.
Suspected of causing cancer by inhalation or skin absorption.
May cause respiratory irritation.
May cause damage to organs <liver, kidney, blood> through prolonged or repeated exposure.

Precautionary Statements

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection. Wash hands and exposed skin thoroughly after handling. Do not breathe mist/vapors/spray. Use only outdoors or in a well-ventilated area. Take off contaminated clothing and wash 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

Some components are readily absorbed through the skin.

% 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-Butoxyethanol	111-76-2	5 - 10
ammonium hydroxide	1336-21-6	1 - 5
Diethanolamine	111-42-2	0.1 - 1.0

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. If breathing problems persist, seek medical attention/advice.
- 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* : May cause respiratory irritation, such as coughing or shortness of breath.
- Skin* : Symptoms may include mild redness or itching.
- Eyes* : Symptoms may include redness, itching, or pain.
- Ingestion* : Symptoms such as gastric pain, nausea, vomiting, and diarrhea may occur.

Effects of long-term (chronic) exposure

- : Prolonged exposure to the skin may cause irritation. Long-term exposure can cause disorders of the 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.

SECTION 5 – FIRE FIGHTING MEASURES

- Suitable extinguishing media** : Carbon dioxide, dry chemical powder, alcohol foam or water spray.
- Unsuitable extinguishing media** : None.
- Hazardous combustion products** : Carbon monoxide, carbon dioxide, nitrogen oxides, 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 large amounts of this material to enter drains or contaminate ground water system.
- Fire hazards/conditions of flammability**

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: 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: 2 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 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):

Ammonium hydroxide – 1000 lbs/454 kg (80,000 lbs of this product)

Diethanolamine – 100 lbs/45 kg (40,000 lbs of this product)

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 water. Notify the appropriate authorities as required.

Prohibited materials

: None known.

Environmental precautions

: Do not allow large amounts of product to enter drains or waterways. Do not allow material to contaminate ground water system. When diluted according to the label instructions and used as intended, cleaning solutions made from this product can be safely disposed of down drains.

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. Do not eat, drink or smoke in the work area. Wash thoroughly after handling. Avoid contact with eyes, skin, or clothing. Avoid repeated or prolonged skin contact. Do not breathe vapors or mists of this product. Promptly remove any clothing that becomes contaminated. Clean contaminated clothing before reuse.

Storage requirements

: Store in a cool, dry, well-ventilated area. Store locked up, away from heat and open flame. Store in original container. Keep tightly closed when not in use.

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-Butoxyethanol	111-76-2	20 ppm	N/Av	50 ppm	N/Av

				(skin)	
ammonium hydroxide	1336-21-6	25 ppm	35 ppm	50 ppm	N/Av
Diethanolamine	111-42-2	0.46 ppm, 2 mg/m3 (skin)	N/Av	3 ppm (13 mg/m3)	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** : 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. 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.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- | | | | |
|---|--|---|--------------------------|
| Physical state | : Liquid | Appearance | : Greenish-yellow |
| Odor | : Ammonia | Odor threshold | : N/Av |
| pH | : 10.0 – 10.5 | Specific gravity | : 1.00 |
| Boiling point | : 212°F (100°C) | Coefficient of water/oil distribution | : N/Av |
| Melting/Freezing point | : N/Av | Solubility in water | : miscible |
| 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 weight) | : Approximately 85 - 95% |
| Volatile organic compounds (VOCs) | : 0.4%, per CARB rules, after recommended dilution | | |
| 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 | : Setflash 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. Ammonia gas may be liberated at high temperatures.
- Hazardous reactions** : Hazardous polymerization does not occur.
- Conditions to avoid** : Avoid heat and open flame. Keep away from direct sunlight. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.
- Materials to avoid and incompatibility**

: Oxidizing agents; Acids; Strong bases; 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.

Calculated Acute Toxicity Estimates for the Product

Inhalation : 17 mg/L
Oral : 2611 mg/kg
Dermal : 3307 mg/kg

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

Ingredients	LC50 (7 hr) Inhalation, rat	LD50	
		Oral, rat	Dermal, rabbit
2-Butoxyethanol	2.18	250	220
ammonium hydroxide	1.39 (as ammonia)	350	4840
Diethanolamine	3.35	710	12200

Skin corrosion or irritation : May cause irritation to skin.

Serious eye damage / eye irritation : May cause severe irritation to eyes.

Respiratory or skin sensitization : None known.

Germ cell mutagenicity : None known.

Carcinogenic status : Contains the following chemical(s) listed as Group 2B (possibly carcinogenic) by IARC: Diethanolamine.

Reproductive toxicity : None known.

Specific Target Organ Toxicity, Single Exposure

: Exposure to ammonia vapor (from ammonium hydroxide) may cause respiratory irritation.

Specific Target Organ Toxicity, Repeated Exposure

: This product contains a component that may cause liver, kidney, or blood disorders upon repeated exposures.

Aspiration hazard : None known.

Additional information : N/Av

SECTION 12 – ECOLOGICAL INFORMATION

Environmental effects : Large amounts of this product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. When diluted according to the label instructions and used as intended, cleaning solutions made from this product can be safely disposed of down drains.

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.

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- 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** : 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 TDG regulations.	None	None	None
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				

IATA : Not regulated for Air Transport

IMDG : Not regulated for Ocean Transport

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): Ammonium hydroxide – 1000 lbs/454 kg
 Diethanolamine – 100 lbs/45 kg

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.
- Chronic health hazard.

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: Warning! This product contains chemicals known to the State of California to cause cancer

Other State Right to Know Laws:

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Ingredient on State RTK Law?	CAS No.	CA	MA	MN	NJ	NY	PA	RI
2-Butoxyethanol	111-76-2	Yes	Yes	Yes	Yes	No	Yes	Yes
ammonium hydroxide	1336-21-6	Yes	Yes	No	Yes	Yes	Yes	No
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: *2 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.

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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