

## SAFETY DATA SHEET

### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identifier : **S-338 Once 'N Done Floor Cleaner Concentrate**  
Product Code : 00338124, 00338406, 00338408  
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 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 2  
Serious eye damage/eye irritation; Category 2A  
Specific target organ toxicity, single exposure; Respiratory tract irritation;  
Category 3

#### GHS Pictograms



#### Signal Word

Warning.

#### Hazard Statements

Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.

#### Precautionary Statements

Wear protective gloves/protective clothing/eye protection. Wash hands and exposed skin thoroughly after handling. Avoid breathing mist/vapors/spray. Use only 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

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. If breathing problems persist, seek medical attention/advice.
- Skin contact** : Remove/Take off immediately all contaminated clothing. Wash skin with plenty of 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 for 15 minutes. 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.
- 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 may cause irritation of the skin, eyes, and respiratory tract.

### 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 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** : 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 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)

**Methods and materials for containment and cleaning up**

- : Ventilate area of release. Stop spill or leak at source if safely possible. Caution: spilled product will make floors slippery! 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 by pouring in a drain.

**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. Avoid repeated or prolonged skin contact. Avoid breathing vapors or mists of this product. Promptly remove contaminated clothing. 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 (skin)	N/Av
ammonium hydroxide	1336-21-6	25 ppm	35 ppm	50 ppm	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**

<b>Note</b>	:	The following PPE recommendations are for professional users. Consumer users should refer to the product label.
<b>Eye / face protection</b>	:	Safety glasses or chemical goggles are recommended.
<b>Skin protection</b>	:	Wear gloves which are impervious to the product. Glove materials such as rubber or vinyl are recommended.
<b>Body protection</b>	:	Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact.
<b>Respiratory protection</b>	:	If work process generates excessive quantities of vapor, or exposures in excess of any PEL, wear an appropriate organic vapor respirator.
<b>Site safety equipment</b>	:	An eyewash station and safety shower should be made available in the immediate working area.
<b>General hygiene considerations</b>	:	Avoid contact with eyes, skin and clothing. Upon completion of work, wash hands thoroughly. Remove soiled clothing and wash it thoroughly before reuse.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	:	Liquid	<b>Appearance</b>	:	Greenish-yellow
<b>Odor</b>	:	Ammonia	<b>Odor threshold</b>	:	N/Av
<b>pH</b>	:	10.0 – 10.5	<b>Specific gravity</b>	:	1.00
<b>Boiling point</b>	:	212°F (100°C)	<b>Coefficient of water/oil distribution</b>	:	N/Av
<b>Melting/Freezing point</b>	:	N/Av	<b>Solubility in water</b>	:	miscible
<b>Vapor pressure (mm Hg @ 20°C / 68°F)</b>	:	N/Av	<b>Evaporation rate (n-Butyl acetate = 1)</b>	:	N/Av
<b>Vapor density (Air = 1)</b>	:	N/Av	<b>Volatiles (% by weight)</b>	:	Approximately 85 - 95%
<b>Volatile organic compounds (VOCs)</b>	:	0.4%, per CARB rules, after recommended dilution			
<b>Particle size</b>	:	N/Av	<b>Flammability classification</b>	:	Not flammable
<b>Flash point</b>	:	>93.3°C (>200°F)	<b>Lower flammable limit (% by vol)</b>	:	Not available
<b>Flash point method</b>	:	Setaflash closed	<b>Upper flammable limit (% by vol)</b>	:	Not available
<b>Auto-ignition temperature</b>	:	N/Av	<b>Decomposition temperature</b>	:	Not available
<b>Viscosity</b>	:	N/Av	<b>Oxidizing properties</b>	:	Not available
<b>Explosion data: Sensitivity to mechanical impact / static discharge</b>	:	Not expected to be sensitive to mechanical impact or static discharge.			

## SECTION 10 – REACTIVITY AND STABILITY INFORMATION

<b>Reactivity</b>	:	Not reactive.
<b>Stability</b>	:	Stable under the recommended storage and handling conditions prescribed. Ammonia gas may be liberated at high temperatures.
<b>Hazardous reactions</b>	:	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	:	Avoid heat and open flame. Keep away from direct sunlight. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.
<b>Materials to avoid and incompatibility</b>	:	Oxidizing agents; Acids; Strong bases; Halogenated compounds; Alkali metals.
<b>Hazardous decomposition products</b>	:	None known; refer to hazardous combustion products in Section 5.

## SECTION 11 – TOXICOLOGICAL INFORMATION

<b>Routes of exposure</b>	:	<i>Inhalation:</i> YES <i>Skin Absorption:</i> YES <i>Skin and Eyes:</i> Yes <i>Ingestion:</i> YES
<b>Symptoms of exposure</b>	:	See Section 4.

**Calculated Acute Toxicity Estimates for the Product**

*Inhalation* : > 25 mg/L  
*Oral* : > 8000 mg/kg  
*Dermal* : > 3000 mg/kg

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

Ingredients	LC50 (4 hr)		LD50	
	Inhalation, rat		Oral, rat	Dermal, rabbit
2-Butoxyethanol	2.17		917	220
ammonium hydroxide	1.39 (as ammonia)		350	4840

**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** : Does not contain any chemical(s) listed as carcinogens by IARC, NTP, or OSHA in concentrations greater than 0.1%. ACGIH classifies 2-butoxyethanol in group A3—a confirmed animal carcinogen with unknown relevance to humans.  
**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** : None known.  
**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 by pouring down a drain.

**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**

Armstrong S-338 Once 'N Done Floor Cleaner Concentrate  
01-Jul-2019

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

**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

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.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This product is subject to SARA 313 notification requirements for Ammonium hydroxide, CAS No. 1336-21-6.

**U.S. State Right to Know Laws**

California Proposition 65: None

Other State Right to Know Laws:

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

## SECTION 16 – OTHER INFORMATION

**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



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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 Flooring, 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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