

MATERIAL SAFETY DATA SHEET



Armstrong World Industries Canada Ltd.
6911 Decarie Blvd
Montreal, Quebec
H3W 3E5

Use in case of emergency only:

CHEM-TEL – 1-800-255-3924

Or

1-813-248-0585 (call collect)

SECTION I – MATERIAL IDENTIFICATION AND USE

Armstrong S-330 Once'n Done
Floor Cleaner

HMIS Hazard Index

4 Severe Hazard	HEALTH	1
3 Serious Hazard	FLAMMABILITY	0
2 Moderate Hazard	REACTIVITY	0
1 Slight Hazard	PERSONAL PROTECTION	B
0 Minimal Hazard		

WHMIS Classification:

D1A & D1B – Poisonous and Infectious material with acute lethality
D2A – Poisonous and Infectious material with chronic toxic effects
D2B – Poisonous and Infectious material with chronic toxic effects

CHEMICAL NAME Not Applicable	CHEMICAL FAMILY Water dispersed cleaner	CHEMICAL FORMULA Not Applicable
TRADE NAME AND SYNONYMS S-330	MOLECULAR WEIGHT Not Applicable	MATERIAL USE Floor cleaner

SECTION II – HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	%	C.A.S. NUMBERS	LD50 (SPECIES & ROUTE)	LC50 (SPECIES & ROUTE)
			(rat, oral)	(rat, inhalation)
2-Butoxyethanol	7-13	111-76-2	530 mg/kg	450 ppm/4 hours
Ammonium hydroxide	3-7	1336-21-6	350 mg/kg	3,670 ppm/4 hours

This product does not contain asbestos

SECTION III – PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE Liquid		ODOUR AND APPEARANCE Greenish-yellow colored liquid with ammonia odour.	
ODOUR THRESHOLD (PPM) Not available	SPECIFIC GRAVITY Not available	VAPOR PRESSURE Not available	VAPOR DENSITY (Air = 1) Not available
EVAPORATION RATE Not available	BOILING POINT Not available	FREEZING POINT Not available	SOLUBILITY IN WATER Completely soluble
% VOLATILE (BY WEIGHT) Not available	PH 10.0 to 10.5		COEFFICIENT OF WATER Not available

Armstrong S-330 Once'n Done Floor Cleaner

SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

FLAMMABILITY

Product is not flammable under normal conditions. It must be heated or exposed to high temperatures.

MEANS OF EXTINCTION

Use carbon dioxide, dry chemical or water spray.

SPECIAL PROCEDURES

Closed containers in a fire may rupture due to pressure build-up; use water to cool containers to prevent this from happening. For general fire fighting, protect fire fighters from toxic products of combustion by wearing self-contained breathing apparatus.

FLASH POINT AND METHOD

Not available

UPPER EXPLOSION LIMIT (% BY VOLUME)

Not available

LOWER EXPLOSION LIMIT (% BY VOLUME)

Not available

AUTOIGNITION TEMPERATURE

Not available

HAZARDOUS COMBUSTION PRODUCTS

See normal products of decomposition

SENSITIVITY TO MECHANICAL IMPACT

Not normally sensitive

SENSITIVITY TO STATIC DISCHARGE

Not normally sensitive

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY

Stable

INCOMPATIBILITY TO OTHER SUBSTANCES

Strong oxidizing agents

REACTIVITY AND UNDER WHAT CONDITIONS

Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon dioxide, carbon monoxide, and other toxic vapours that are common to thermal degradation or organic compounds.

SECTION VI - TOXICOLOGICAL PROPERTIES OF MATERIAL

ROUTE OF ENTRY

Skin contact and eye contact.

EFFECTS OF ACUTE EXPOSURE TO MATERIAL

Inhalation: Prolonged or repeated exposure to product may cause irritation of respiratory tract, lungs, and central nervous system effects such as headache, dizziness, drowsiness or nausea.

Skin and eyes: Prolonged skin contact may cause an irritation. Contact with eyes may cause a severe irritation.

Ingestion: Gastrointestinal irritation may occur.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL

Prolonged or repeated skin contact might cause irritation for sensitive skins. Refer to 'Carcinogenicity, Reproductive toxicity' section for further information. Medical conditions generally aggravated by exposure: None.

Armstrong S-330 Once'n Done Floor Cleaner

MATERIAL NAME/IDENTIFIER		<i>Armstrong S-330 Once'n Done Floor Cleaner</i>	
LD50 OF MATERIAL (SPECIES & ROUTE) Not available for product - See Section II		LC50 OF MATERIAL (SPECIES & ROUTE) Not available for product	
EXPOSURE (LIMITS) TLV-TWA: 97 mg/m ³ for 2-butoxyethanol; 17 mg/m ³ for ammonium hydroxide.		IRRITANCY OF MATERIAL Not available	
SENSITIZATION OF MATERIAL Not Available		SYNERGISTIC MATERIALS Not Available	
CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY			
Carcinogenicity: No ingredient is listed as a carcinogen according to IARC or ACGIH.			
Reproductive toxicity, teratogenicity, mutagenicity: Results obtained following testing have shown that 2-butoxyethanol has reproductive effects.			
SECTION VII - PREVENTIVE MEASURES			
PERSONAL PROTECTIVE EQUIPMENT			
<u>Respiratory Protection:</u> With adequate ventilation, respiratory equipment should not be needed. If work process generate excessive quantities of vapour, wear NIOSH/MSHA approved respirator for organic vapours.			
<u>Skin and Eye Protection:</u> Avoid contact with skin by wearing latex or rubber gloves. Wear spectacle-type safety glasses with side shields to reduce potential eye contact.			
ENGINEERING CONTROLS (E.G. VENTILATION, ENCLOSED PROCESS)			
Use natural cross-ventilation, local (mechanical) pick-up, and/or general area (mechanical) ventilation.			
WORK SITE ENVIRONMENT:			
Initially there may be a potential adverse impact on indoor air quality within the general work area during the installation process. Therefore, you should advise the building manager or other appropriate person that:			
<ul style="list-style-type: none">• It will be necessary to establish and maintain adequate ventilation of the work area, without allowing contaminants to enter other parts of the building; and• Persons who are sensitive to odours and/or chemicals should be advised to avoid the work area during this process.			
LEAK AND SPILL PROCEDURE			
For exposures above TLV, wear approved respiratory equipment. Contain material, preventing it from entering sewer lines or waterways. Use absorbent to assist pick-up of material. Pick up product and place in a container. Residual of product, while still wet, can be cleaned up with warm soapy water.			
WASTE DISPOSAL			
Use only approved disposal methods in accordance with all federal, provincial, and local waste disposal regulations. Do not reuse container. Do not flush unused contents or residue down drains. Consult with local municipal officials, or provincial Ministry of the Environment office nearest to your location, for approved disposal methods.			
HANDLING PROCEDURES AND EQUIPMENT			
Use proper protective equipment. Avoid prolonged eye and skin contact with the product. Wash thoroughly with soap and water before eating, drinking, smoking, or using toilet facilities. Launder contaminated clothing before reuse. Do not ingest. Use only as directed on label. Keep out of the reach of children. Close container after each use.			
STORAGE REQUIREMENTS			
Store in a suitable area, away from incompatibles. Keep product from freezing.			
SPECIAL SHIPPING INFORMATION			
Ensure that all containers have appropriate lids and that they are securely closed. Transportation of Dangerous Goods (TDG) Act classification: Not regulated as dangerous goods.			

Armstrong S-330 Once'n Done Floor Cleaner

SECTION VIII - FIRST AID MEASURES

Inhalation: If exposed to excessive quantities of vapour, remove to fresh air. Seek medical attention if symptoms persist.

Skin and Eyes: Flush eyes with plenty of lukewarm water. If wearing contact lenses, remove them immediately and continue flushing. Consult a physician if pain, irritation or vision problems persist after treatment. For skin contact, flush with plenty of lukewarm water then wash with soap and water. If spilled on clothing, remove and launder before wearing the clothing again. Refer to physician if irritation persists.

Ingestion: Do not induce vomiting. Never give anything by mouth if patient is unconscious. Immediately call Poison Control Center or physician for guidance.

ADDITIONAL INFORMATION

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 Canada Ltd., 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. This Material Safety Data Sheet is valid for three (3) years.

SECTION IX - PREPARATION DATE OF M.S.D.S.

PREPARED BY:	TELEPHONE NUMBER	DATE
Environment, Health and Safety	1-877-276-7876, Opt 2,3,3	June 1, 2006

ADDITIONAL NOTES OR REFERENCES:

Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygienists
ASTM = American Society for Testing and Materials
CNS = Central Nervous System
CPR = Controlled Product Regulations, Hazardous Product Act
IARC = International Agency for Research on Cancer
MSHA = Mine Safety and Health Administration
NIOSH = National Institute of Safety and Health
TLV = Threshold Limit Values
TWA = Time Weighted Average

References:

1. Material Safety Data Sheets from raw materials' suppliers
2. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2002
3. The Sigma-Aldrich Library of Chemical Safety Data, Edition II, 1988.
4. N. Irving Sax, Dangerous Properties of Industrial Materials, 7th edition, Van Nostrand Reinhold, 1984