

Bruce Hardwood & Laminate Floor Cleaner

MSDS Preparation Date (dd/mm/yyyy): 01/06/2009

S-302

Page 1 of 5

MATERIAL SAFETY DATA SHEET

	SECTION 1 - PRODUCT AND	COMPANY IDENTIFICATION	
Product identifier	Bruce Hardwood & Laminate Floor Cleaner		
Product Use	: Alcohol based, floor cleaner.		
Chemical Family	: Mixture.		
Manufacturer part no.	: S-302		
Supplier's name and addres	ss:	Manufacturer's name and address:	
Armstrong World Indu 2500 Columbia Ave. Lancaster, PA, U.S.A. 17603 24 Hr. Emergency Tel #	stries, Inc. : 800-255-3924 (CHEM-TEL)	Refer to Supplier	

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS					
			LC₅₀(4hr)	LD50	
Ingredients	CAS #	Wt.%	<u>(Rat, ihl.)</u>	<u>(Oral, rat)</u>	(Rabbit, dermal)
Isopropyl alcohol	67-63-0	<4.0%	17,000 ppm	4720 mg/kg	12,890 mg/kg
2-butoxyethanol	111-76-2	0.50 - 1.50	450 ppm	470 mg/kg	400 mg/kg

SECTION 3 - HAZARDS IDENTIFICATION

Opaque blue liquid. Lemon odour.

Warning! Combustible liquid and vapour. Harmful if inhaled or swallowed. Harmful if absorbed through the skin. May cause nausea, vomiting, headache and other central nervous system effects. May cause respiratory irritation. Causes skin and eye irritation.

Possible birth defect hazard - contains material that may cause birth defects, based on animal data.

	POTENTIAL HEALTH EFFECTS
Target organs	 Eyes, skin, respiratory system, digestive system, central nervous system, blood system.
Routes of exposure	: Inhalation: YES Skin Absorption: YES Skin & Eyes: YES Ingestion: YES
Signs and symptom	s of short-term (acute) exposure
Inhalation	May cause irritation to the nose, throat and upper respiratory tract. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Inhalation in very high concentrations may result in blood system effects, such as red blood cell fragility.
Skin	May cause mild to moderate skin irritation. Prolonged contact, such as when trapped against the skin under clothing or jewelry, may be more irritating. May be absorbed and cause symptoms similar to those for inhalation.
Eyes	: May cause moderate to severe irritation.
Ingestion	: May cause irritation of mouth, throat, and stomach. Ingestion may cause symptoms similar to inhalation.
Potential chronic he	alth effects
044	 Prolonged or repeated skin contact may cause irritation, defatting or dermatitis (rash). This product contains: 2-butoxyethanol. 2-Butoxyethanol has been reported to cause blood disorders resulting in kidney, liver, and spleen damage to laboratory animals in long-range studies. Humans are less sensitive to these effects.
Other important haz	ards : May cause birth defects. See TOXICOLOGICAL INFORMATION, Section 11.



Armstrong World Industries, Inc. 2500 Columbia Ave. Lancaster, PA, U.S.A., 17603 Telephone: 717-396-2328

Bruce Hardwood & Laminate Floor Cleaner

MSDS Preparation Date (dd/mm/yyyy): 01/06/2009

S-302

Page 2 of 5

	SECTION 4 - FIRST AID MEASURES		
Inhalation	 Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Get medical attention. 		
Skin contact	Remove/Take off immediately all contaminated clothing. In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention. Wash contaminated slothing before rejuse.		
Eye contact	attention. Wash contaminated clothing before re-use. Immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention/advice.		
Ingestion	 Do not induce vomiting. Have victim rinse mouth with water, then give one to two glasses of water to drink. Get medical attention. Never give anything by mouth to an unconscious person. 		
	SECTION 5 - FIRE FIGHTING MEASURES		
Fire hazards/conditions of flamn	nability		
	 Combustible liquid and vapour. This material may be ignited by heat, sparks and direct flame. Vapours are heavier than air and collect in confined and low-lying areas. Vapour can travel considerable distance and flashback to a source of ignition. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. 		
Flash point	: 86°C		
Flash point Method	: Tag closed cup Auto-ignition temperature : N/Av		
Lower flammable limit (% by vol.	.) Upper flammable limit (% by vol.) : N/Av · N/Av		
Oxidizing properties	None known.		
Flame Projection Length	: N/Av Flashback observed : N/Av		
Explosion data: Sensitivity to me	echanical impact / static discharge		
	: Not expected to be sensitive to mechanical impact or static discharge.		
Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.		
Special fire-fighting procedures/	equipment		
Hazardous combustion products	: 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.		
nazardous compustion products	 Carbon oxides, unburned alcohol and other irritating fumes and smoke. 		
	SECTION 6 - ACCIDENTAL RELEASE MEASURES		
Personal precautions	 All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. 		
Environmental precautions	Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.		
Spill response/cleanup	 Ventilate area of release. Remove all sources of ignition. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required. 		
Prohibited materials	None known.		



S-302

MSDS Preparation Date (dd/mm/yyyy): 01/06/2009

Page 3 of 5

Safe Handling procedures	:	Use in a well ventilated area. Wear suitable protective equipment during handling. Avoid breathing vapours. Training the workers on the potential health hazards associated with product vapor, dust or fume is important. Secondary inhalation exposures could occur when cleaning equipment, or when removing or laundering the clothing. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and flame. Avoid contact with incompatible materials. Wash thoroughly after handling.
Storage requirements	:	Store in a cool, dry, well-ventilated area. Keep away from direct sunlight. Keep away from incompatibles. Inspect periodically for damage or leaks.
Incompatible materials	:	Strong oxidizing agents; Acids.
Special packaging materials	:	Always keep in containers made of the same materials as the supply container.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits

	ACGIH TLV		OSHA	PEL
Ingredients	<u>TWA</u>	<u>STEL</u>	PEL	<u>STEL</u>
Isopropyl alcohol	200 ppm	400 ppm	400 ppm	N/Av
2-butoxyethanol	20 ppm	N/Av	50 ppm (skin)	N/Av

Ventilation and engineering measures

	: Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.
Respiratory protection	: If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised.
Skin protection	: Gloves impervious to the material are recommended. Advice should be sought from glove suppliers.
Eye / face protection	: Chemical splash goggles are recommended.
Other protective equipment	: Depending on conditions of use, an impervious apron should be worn. An eyewash station and safety shower should be made available in the immediate working area.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

	SECTION 9 - PHYSICA	L AND CHEMICAL PROPER	ATTES
Physical state	: Liquid.	Appearance	: Opaque blue liquid.
Odour	: Lemon odour.	Odour threshold	: N/Av
рН	: 7.8		
Boiling point	: N/Av	Specific gravity	: 1.0
Melting/Freezing point	: N/Av	Coefficient of water/oil distribution	
			: N/Av
Vapour pressure (mmHg @ 2	20° C / 68° F) : N/Av	Solubility in water	: soluble
Vapour density (Air = 1)	: Heavier than air.	Evaporation rate (n-Butyl	acetate = 1)
			: same as water
Volatile organic Compounds	(VOC's)	Volatiles (% by weight)	: 8%
	: N/Av		
Absolute pressure of contain	ner	Viscosity	: N/Av
	: N/Ap		
	SECTION 10 - REAC	TIVITY AND STABILITY DA	ТА
	. Stable under the rece	mmonded storage and handling een	ditions prescribed

Stability and reactivity

: Stable under the recommended storage and handling conditions prescribed. Hazardous polymerisation does not occur.

Armstrong

Bruce Hardwood & Laminate F	loor Cleaner	S-30
MSDS Preparation Date (dd/mr	n/yyyy): 01/06/2009	Page 4 of
Conditions to avoid	: Avoid heat and open flame. Keep away from direct sunlight. Do not use in areas without adequate ventilation.	
Materials To Avoid And Incom	patibility	
	: See Section 7 (Handling and Storage) section for further details.	
Hazardous decomposition pro		
	: None known, refer to hazardous combustion products in Section 5.	
	SECTION 11 - TOXICOLOGICAL INFORMATION	
Toxicological data	: There is no available data for the product itself, only for the ingredients. See Section 2.	
Carcinogenic status	 Contains 2-Butoxyethanol. 2-Butoxyethanol is classified as a confirmed animal carcinogen by ACGIH (Group A3). 	
Reproductive effects	: None known.	
Teratogenicity	: This product contains Isopropanol. Animal evidence suggests Isopropanol may be fetotoxic at doses that are not maternally toxic.	
Mutagenicity	: None known.	
Sensitization to material	: None known.	
Synergistic materials	: None known.	
Medical conditions aggravated	by overexposure	
	: Pre-existing eye, skin, respiratory, liver, kidney and central nervous system disorders. Blood disorders.	
Addtional Health Hazards	: CNS depression may result from extreme exposures.	
	SECTION 12 - ECOLOGICAL INFORMATION	
Environmental effects	: The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. No data is available on the product itself	:
mportant environmental chara	cteristics	
	: No data is available on the product itself.	
Ecotoxicological	: No data is available on the product itself.	
	SECTION 13 - DISPOSAL CONSIDERATIONS	
Handling for Disposal	: Handle waste according to recommendations in Section 7.	

SECTION 14 - TRANSPORTATION INFORMATION Packing Regulatory UN Number Group **Shipping Name** Information Class Label Not regulated. not regulated TDG none none TDG None. Additional information **SECTION 15 - REGULATORY INFORMATION**

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian WHMIS Classification:

Class B3 (Combustible Liquids);

Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material);

Class D2B (Materials Causing Other Toxic Effects, Toxic Material).



Bruce Hardwood & Laminate Floor Cleaner

MATERIALS REGULATIONS SPECIALIS

S-302 Page 5 of 5

MSDS Preparation Date (dd/mm/yyyy): 01/06/2009



This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

SECTION 16 - OTHER INFORMATION Legend : ACGIH: American Conference of Governmental Industrial Hygienists CAS: Chemical Abstract Services IARC: International Agency for Research on Cancer Inh: Inhalation N/Ap: not applicable N/Av: not available NIOSH: National Institute of Occupational Safety and Health OSHA: Occupational Safety and Health Administration PEL: Permissible exposure limit RTECS: Registry of Toxic Effects of Chemical Substances STEL: Short Term Exposure Limit TDG: Canadian Transportation of Dangerous Goods Act & Regulations TLV: Threshold Limit Values TWA: Time Weighted Average TSCA: Toxic Substance Control Act WHMIS: Workplace Hazardous Materials Identification System : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & References Biological Exposure Indices for 2007. 2. International Agency for Research on Cancer Monographs, searched 2007. 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2007 (Chempendium, HSDB and RTECs). 4. Material Safety Data Sheets from manufacturer. Prepared for: Armstrong World Industries, Inc. strong 2500 Columbia Ave. Lancaster, PA, U.S.A., 17603 Telephone: 717-396-2328 Please direct all enquiries to Armstrong World Industries. Prepared by: ICC The Compliance Center Inc.

MSDS Preparation Date (dd/mm/yyyy): 01/06/2009

http://www.thecompliancecenter.com

Canada: 1-888-977-4834 USA: 1-888-442-9628

END OF DOCUMENT