



Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Scotchgard™ Fabric Protector (Cat. No. 4101, 4106)

MANUFACTURER: 3M

DIVISION: New Business Ventures

ADDRESS: 3M Center, St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 09/26/12

Supersedes Date: 01/27/12

Document Group: 21-7129-6

Product Use:

Intended Use: Oil, water and stain repellent for fabrics in consumer market

SECTION 2: INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
Acetone	67-64-1	38 - 42
Isopropyl Alcohol	67-63-0	32 - 37
Light Alkylate Petroleum Naphtha	64741-66-8	18 - 22
Carbon Dioxide	124-38-9	2 - 6
Fluorochemical Urethane	Trade Secret	< 3

New Jersey Trade Secret Registry number is: Fluorochemical Urethane is (EIN) 04499600-6523

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Aerosol

Odor, Color, Grade: Liquid with chemical odor, contents under pressure.

General Physical Form: Liquid

Immediate health, physical, and environmental hazards: Aerosol container contains flammable gas under pressure. Closed containers exposed to heat from fire may build pressure and explode. Extremely flammable liquid and vapor. Vapors may travel long distances along the ground or floor to an ignition source and flash back. May cause target organ effects.

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

Skin Contact:

Moderate Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

Inhalation:

Intentional concentration and inhalation may be harmful or fatal.

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

If thermal decomposition occurs:

May be harmful if inhaled.

May be absorbed following inhalation and cause target organ effects.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May be absorbed following ingestion and cause target organ effects.

Target Organ Effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact: Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

If Swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Autoignition temperature	> 700 °F [Details: For liquid only]
Flash Point	-2 °F [Test Method: Closed Cup]
Flammable Limits(LEL)	0.9 %
Flammable Limits(UEL)	12.7 %
OSHA Flammability Classification:	Class IB Flammable Liquid

5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: For leaks or spills which have not ignited, water spray can be used to disperse the flammable vapor and protect personnel attempting to stop the leak. Exposure to extreme heat can give rise to thermal decomposition. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Extremely flammable liquid and vapor. Aerosol container contains flammable material under pressure. Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation and personal protective equipment. Evacuate unprotected and untrained personnel from the hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area. **WARNING !** A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. If it can be done safely, place the leaking containers in an exhaust hood or well-ventilated area. **WARNING !** To avoid problems with pressure buildup, slowly leaking pressurized aerosol cans should not be placed in sealed containers. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard.

6.2. Environmental precautions

Place depressurized can and clean up wastes in a closed container approved for transportation by appropriate authorities. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Dispose of collected material as soon as possible.

Clean-up methods

Contain spill, using absorbent if necessary. Collect spilled material with non-sparking tools. Clean up residue. Place depressurized cans and clean up wastes in a metal container approved for transportation. Seal the container.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Keep out of the reach of children. Aerosol container contains flammable gas under pressure. Avoid breathing of airborne material. Avoid prolonged or repeated skin contact. Avoid eye contact with vapors, mists, or spray. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Do not pierce or burn container, even after use. Do not spray near flames or sources of ignition. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Avoid vapor contact with open flame, welding arcs or other high temperature sources which may cause vapor decomposition to produce toxic gases. No smoking while handling this material. Keep children and pets out of area until treated article has thoroughly dried.

7.2 STORAGE

Store away from heat. Store out of direct sunlight. Do not heat under confinement to avoid risk of explosion. Store away from acids.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Use in a well-ventilated area. Do not use in a confined area or areas with little or no air movement.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

As a good industrial hygiene practice:

Avoid eye contact with vapors, mists, or spray.

The following eye protection(s) are recommended: Safety Glasses with side shields

8.2.2 Skin Protection

As a good industrial hygiene practice:

Avoid prolonged or repeated skin contact.

Gloves not normally required.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Butyl Rubber
Polymer laminate

8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray. Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

8.3 EXPOSURE GUIDELINES

<u>Ingredient</u>	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	<u>Additional Information</u>
Acetone	ACGIH	TWA	500 ppm	
Acetone	ACGIH	STEL	750 ppm	
Acetone	OSHA	TWA	2400 mg/m3	
Carbon Dioxide	ACGIH	TWA	5000 ppm	
Carbon Dioxide	ACGIH	STEL	30000 ppm	
Carbon Dioxide	OSHA	TWA	9000 mg/m3	
Isopropyl Alcohol	ACGIH	TWA	200 ppm	
Isopropyl Alcohol	ACGIH	STEL	400 ppm	
Isopropyl Alcohol	OSHA	TWA	980 mg/m3	
TIN, ORGANIC COMPOUNDS	ACGIH	TWA, as Sn	0.1 mg/m3	Skin Notation*
TIN, ORGANIC COMPOUNDS	ACGIH	STEL, as Sn	0.2 mg/m3	Skin Notation*
TIN, ORGANIC COMPOUNDS	OSHA	TWA, as Sn	0.1 mg/m3	

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline

OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form:	Aerosol
Odor, Color, Grade:	Liquid with chemical odor, contents under pressure.
General Physical Form:	Liquid
Autoignition temperature	> 700 °F [Details: For liquid only]
Flash Point	-2 °F [Test Method: Closed Cup]
Flammable Limits(LEL)	0.9 %
Flammable Limits(UEL)	12.7 %
Boiling Point	>=134 °F
Vapor Density	No Data Available
Vapor Pressure	<=187 mmHg [@ 20 °C]
Specific Gravity	0.8 [Details: (Liquid fill only)]
pH	Not Applicable
Melting point	Not Applicable
Solubility in Water	Moderate
Evaporation rate	No Data Available
Volatile Organic Compounds	Approximately 54 % weight
Kow - Oct/Water partition coef	No Data Available
Percent volatile	Approximately 93.2 % weight
Viscosity	No Data Available

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid:

10.1 Conditions to avoid

Heat

10.2 Materials to avoid

None known

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide
Carbon dioxide
Hydrogen Fluoride

Condition

During Combustion
During Combustion
During Combustion

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not determined.

CHEMICAL FATE INFORMATION

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Incinerate in a permitted hazardous waste incinerator. Facility must be capable of handling aerosol cans. Combustion products will include HF. Facility must be capable of handling halogenated materials. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility. To reclaim or return, contact your 3M sales representative.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14: TRANSPORT INFORMATION

ID Number	UPC	ID Number	UPC
LB-I0NF-4101-S		70-0050-9244-3	500-21200-00214-9
70-0051-3366-8	500-21200-00213-2	70-0051-3463-3	500-21200-00214-9
70-0051-3877-4	500-51141-94196-2	70-0051-6619-7	500-51141-95092-6

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

This material contains one or more substances which are subject to a TSCA Consent Order or Significant New Use Rule.

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

This material contains a chemical which requires export notification under TSCA Section 12[b]:

<u>Ingredient (Category if applicable)</u>	<u>C.A.S. No</u>	<u>Regulation</u>	<u>Status</u>
Fluorochemical Urethane	Trade Secret	Toxic Substances Control Act (TSCA) 5 SNUR or Consent Order Chemicals	Applicable

STATE REGULATIONS

Contact 3M for more information.

CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA.

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. Contact 3M for more information.

INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 3 Flammability: 3 Reactivity: 0 Special Hazards: None
Aerosol Storage Code: 3

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

HMIS Hazard Classification

Health: 2 Flammability: 3 Reactivity: 0 Protection: X - See PPE section.

Hazardous Material Identification System (HMIS®) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint and Coatings Association (NPCA).

Revision Changes:

Section 14: ID Number(s) and/or UPC(s) Template 1 was modified.

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3M USA MSDSs are available at www.3M.com

MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE: 1-800-346-0132
CHEMTREC PHONE: 1-800-255-3924

B303 ABSORB-N-DRY

NFPA RATING:

HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0 SPECIAL:

HMIS RATING:

HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0 PERSONAL PROTECTION: B

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ABSORB-N-DRY
PRODUCT CODES: B303
PRODUCT USE: Deodorized Granular Absorbent
MANUFACTURER: Chemax Corporation
ADDRESS: P O Box 7453
Beaumont TX 77726-7453
DATE PREPARED: 10/12/09
PREPARED BY: R Hinshaw

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

<u>INGREDIENT NAME:</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>% WT</u>	<u>SARA 313</u>
ABSORBENT CLAY	N/A	N/D	N/D	100	

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Keep out of reach of children.

ROUTES OF ENTRY: Eyes. Skin. Ingestion. Inhalation.

POTENTIAL HEALTH EFFECTS:

EYES: May cause irritation.

SKIN: May cause mild irritation and defatting of skin.

INGESTION: Gastric discomfort. Nausea.

INHALATION: Not likely to occur.

CHRONIC HEALTH HAZARDS: None known.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE: 1-800-346-0132
CHEMTREC PHONE: 1-800-255-3924

B303 ABSORB-N-DRY

SECTION 4: FIRST AID MEASURES

EYES: Flush with large amounts of running water for 15 minutes. If irritation persists, seek medical attention.

SKIN: Wash thoroughly with soap and water for 15 minutes. If irritation develops, seek medical attention.

INGESTION: Do NOT induce vomiting. Seek immediate medical attention.

INHALATION: Remove to fresh air.

NOTES TO PHYSICIAN OR FIRST AID PROVIDER:

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR (% by volume): UPPER: N/A LOWER: N/A

FLASH POINT (Method Used: TCC): N/A

FLAMMABILITY (as per USA Flame Projection Test):

AUTO IGNITION TEMPERATURE: N/A

EXTINGUISHING MEDIA: N/A

SPECIAL FIRE FIGHTING PROCEDURES: N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Sweep up and dispose. Return to container if spilled and not contaminated.

SECTION 6 NOTES: Dispose of residue in accordance with all federal, state and local regulations.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in a cool, dry area. Avoid food contamination.

OTHER PRECAUTIONS: Keep out of reach of children.

SECTION 7 NOTES:

MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE: 1-800-346-0132
CHEMTREC PHONE: 1-800-255-3924

B303 ABSORB-N-DRY

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS:

VENTILATION : Adequate ventilation to keep vapor concentration below TLV.

RESPIRATORY PROTECTION: If vapor concentration exceeds TLV, use respirator approved by NIOSH for organic vapor or SCBA.

EYE PROTECTION: Safety glasses.

SKIN PROTECTION: Solvent-resistant gloves such as neoprene may be used.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None.

WORK HYGIENIC PRACTICES: Wash hands thoroughly after use. Keep away from food and drink.
Handle in accordance with good industrial hygiene and safety practices.

EXPOSURE GUIDELINES:

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Gray clay chips

ODOR: Clean fragrance

PHYSICAL STATE:

pH: N/A

BOILING POINT: N/A

MELTING POINT: N/A

VAPOR PRESSURE (mm Hg): N/A

VAPOR DENSITY (AIR = 1): N/A

SPECIFIC GRAVITY (H₂O = 1): N/A

EVAPORATION RATE (Butyl Acetate = 1): N/A

SOLUBILITY IN WATER: 0%

TOTAL VOC (Volatile Organic Compounds) (% by weight):

TOTAL VOC (Volatile Organic Compounds) (grams / Liter):

PERCENT VOLATILE (by WT / by VOL): 20%

SECTION 9 NOTES:

MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE: 1-800-346-0132
CHEMTREC PHONE: 1-800-255-3924

B303 ABSORB-N-DRY

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable.

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY (Material to Avoid): None known.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: No specific toxicological data is available for this product.

SECTION 11 NOTES: Please refer to Section 3 for information on potential health effects.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No specific ecological data is available for this product.

SECTION 12 NOTES: Please refer to Section 6 for information regarding spills and Section 15 for regulatory information.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of residue in accordance with all federal, state and local regulations.
Do not puncture or incinerate container. Wrap container and place in trash collection.

RCRA HAZARD CLASS: This product should be fully characterized prior to disposal (40 CFR 261).

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Call Manufacturer
HAZARD CLASS:
UNID NUMBER:
PACKING GROUP:
TYPE:

WATER TRANSPORTATION

PROPER SHIPPING NAME: Call Manufacturer
HAZARD CLASS:
UNID NUMBER:
PACKING GROUP:
TYPE:

MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE: 1-800-346-0132
CHEMTREC PHONE: 1-800-255-3924

B303 ABSORB-N-DRY

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

TSCA (Toxic Substance Control Act): All chemicals are listed.

CERCLA (Comprehensive Response Compensation and Liability Act): None

SARA TITLE III EPCRA (Superfund Amendments and Reauthorization Act):

Section 311 – 312: Hazardous Chemical Inventory:

Section 313: Toxic Chemical Release Inventory: None

CALIFORNIA PROPOSITION 65:

Known to the State of California to cause birth defects or other reproductive harm: None

Known to the State of California to cause cancer: None

CARCINOGEN OR POTENTIAL CARCINOGEN:

OSHA: No ACGIH: No NTP: No IARC: No

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION: R Hinshaw

DISCLAIMER: Information provided in this MSDS is correct to the best of our knowledge, information and belief at publication date.

Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



ARMSTRONG® CONCENTRATED FLOOR CLEANER

Version 1.1

Print Date 02/20/2012

Revision Date 07/29/2011

MSDS Number 350000003595

SITE_FORM Number

300000000000000002935.001

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Trade name : ARMSTRONG® CONCENTRATED FLOOR CLEANER

Use of the Substance/Mixture : Floor Polish/Cleaner

Company : S.C. Johnson & Son, Inc.
1525 Howe Street
Racine WI 53403-2236

Emergency telephone number : 24 Hour Medical Emergency Phone: (866)231-5406
24 Hour International Emergency Phone: (703)527-3887
24 Hour Transport Emergency Phone: (800)424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance / Odor : blue / liquid / pleasant

Immediate Concerns

: Caution
MAY CAUSE IRRITATION.
Avoid contact with skin, eyes and clothing.

Potential Health Effects

Exposure routes : Eye, Skin, Inhalation, Ingestion.

Eyes : May irritate eyes.

Skin : Prolonged or repeated contact may dry skin and cause irritation.

Inhalation : No adverse effects expected when used as directed.

Ingestion : May cause irritation to mouth, throat and stomach.
May cause abdominal discomfort.

Aggravated Medical Condition : Persons with pre-existing skin disorders may be more susceptible to irritating effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous chemicals present at or above reportable levels as defined by OSHA 29 CFR 1910.1200 or the Canadian Controlled Products Regulations are listed in this table:

Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



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30000000000000002935.001

Chemical Name	CAS-No.	Weight percent
Modified Acrylic Polymer	Mixture	5.00 - 10.00
Ethoxylated linear alcohol	68131-39-5	1.00 - 5.00
Ammonium Hydroxide	1336-21-6	0.10 - 1.00

For additional information on product ingredients, see www.whatsinsidescjohnson.com.

4. FIRST AID MEASURES

- Eye contact : Remove contact lenses. Flush immediately with plenty of water for at least 15 to 20 minutes. Get medical attention if irritation develops and persists.
- Skin contact : Rinse with plenty of water. Get medical attention if irritation develops and persists.
- Inhalation : No special requirements
- Ingestion : If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during firefighting : Container may melt and leak in heat of fire.
- Further information : Fight fire with normal precautions from a reasonable distance. Standard procedure for chemical fires. Wear full protective clothing and positive pressure self-contained breathing apparatus.
- Flash point : Note: not applicable
- Lower explosion limit : Note: no data available
- Upper explosion limit : Note: no data available

Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



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MSDS Number 350000003595
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30000000000000002935.001

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : No special precautions required.
- Environmental precautions : Outside of normal use, avoid release to the environment.
- Methods for cleaning up : Soak up with inert absorbent material.
Sweep up and shovel into suitable containers for disposal.
Dike large spills.
Clean residue from spill site.

7. HANDLING AND STORAGE

Handling

- Advice on safe handling : Avoid contact with skin, eyes and clothing.
For personal protection see section 8.
Use only as directed.
KEEP OUT OF REACH OF CHILDREN AND PETS.

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

- Requirements for storage areas and containers : Keep container closed when not in use.
Keep in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

ACGIH or OSHA exposure limits have not been established for this product or reportable ingredients unless noted in the table above.

Personal protective equipment

Respiratory protection

- Industrial setting : No personal respiratory protective equipment normally required.
- Household setting : Use only with adequate ventilation.

- Hand protection** : No special requirements.

Eye protection

Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



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Version 1.1

Print Date 02/20/2012

Revision Date 07/29/2011

MSDS Number 350000003595

SITE_FORM Number

30000000000000002935.001

Industrial setting : Safety glasses with side-shields

Household setting : Avoid contact with eyes.

Skin and body protection : No special requirements.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid

Color : blue

Odor : pleasant

pH : 8.5 - 9.0

Melting point : no data available

Boiling point : > 200 °F

Freezing point : no data available

Flash point : not applicable

Evaporation rate : no data available

Autoignition temperature : not applicable

Lower explosion limit : no data available

Upper explosion limit : no data available

Vapour pressure : no data available

Density : 1.02 g/cm³
no data available

Water solubility : completely soluble

Partition coefficient: n-octanol/water : no data available

Volatile Organic Compounds : 0.4 % - additional exemptions may apply

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Total VOC (wt. %)* : *as defined by US Federal and State Consumer Product Regulations

10. STABILITY AND REACTIVITY

- Conditions to avoid : Direct sources of heat.
- Materials to avoid : Strong acids
- Hazardous decomposition products : Thermal decomposition can lead to release of irritating gases and vapours.
- Hazardous reactions : Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity : LD50 estimated > 5,000 mg/kg
- Acute inhalation toxicity : no data available
- Acute dermal toxicity : no data available
- Chronic effects**
- Carcinogenicity : no data available
- Mutagenicity : None Anticipated
- Reproductive effects : no data available
- Teratogenicity : no data available
- Sensitisation : Not known to be a sensitizer.

12. ECOLOGICAL INFORMATION

- Ecotoxicity effects** : no data available

Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



ARMSTRONG® CONCENTRATED FLOOR CLEANER

Version 1.1

Print Date 02/20/2012

Revision Date 07/29/2011

MSDS Number 350000003595

SITE_FORM Number

30000000000000002935.001

13. DISPOSAL CONSIDERATIONS

Observe all applicable Federal, Provincial and State regulations and Local/Municipal ordinances regarding disposal.

Consumer may discard empty container in trash, or recycle where facilities exist.

14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

Land transport

▪ **U.S. DOT and Canadian TDG Surface Transportation:**

Proper shipping name	not regulated
Class:	None.
UN/ID No.:	None.
Packaging group	None.

Sea transport

▪ **IMDG:**

Proper shipping name	not regulated
Class:	None.
UN/ID No.:	None.
Packaging group	None.

Air transport

▪ **ICAO/IATA:**

Proper shipping name	not regulated
Class:	None.
UN/ID No.:	None.
Packaging group	None.

15. REGULATORY INFORMATION

Notification status : All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Notification status : All ingredients of this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

California Prop. 65 : This product is not subject to the reporting requirements under California's Proposition 65.

Canada Regulations : This product has been classified in accordance with hazard

Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



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criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. OTHER INFORMATION

HMIS Ratings

Health	1
Flammability	0
Reactivity	0

NFPA Ratings

Health	1
Fire	0
Reactivity	0
Special	-

Further information

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by:	SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA)
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Armstrong S-330 Once 'N Done Floor Cleaner Concentrate
10-Mar-2015

Armstrong World Industries
2500 Columbia Ave.
Lancaster, PA USA 17603
Telephone: (800) 233-3823
Page 1 of 7

SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identifier : **S-330 Once 'N Done Floor Cleaner Concentrate**
Product Code : 70010703
Trade Name/Synonyms : S-330
Recommended Use : Floor Cleaner Concentrate.
Uses Advised Against : No information available.
Supplier's name and address:
Armstrong World Industries, 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: 1-800255-3924 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)

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.



Armstrong S-330 Once 'N Done Floor Cleaner Concentrate
10-Mar-2015

Armstrong World Industries
2500 Columbia Ave.
Lancaster, PA USA 17603
Telephone: (800) 233-3823
Page 2 of 7

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.



Armstrong S-330 Once 'N Done Floor Cleaner Concentrate
10-Mar-2015

Armstrong World Industries
2500 Columbia Ave.
Lancaster, PA USA 17603
Telephone: (800) 233-3823
Page 3 of 7

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 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 14 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.



Armstrong S-330 Once 'N Done Floor Cleaner Concentrate
10-Mar-2015

Armstrong World Industries
2500 Columbia Ave.
Lancaster, PA USA 17603
Telephone: (800) 233-3823
Page 4 of 7

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
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.



Armstrong S-330 Once 'N Done Floor Cleaner Concentrate
10-Mar-2015

Armstrong World Industries
2500 Columbia Ave.
Lancaster, PA USA 17603
Telephone: (800) 233-3823
Page 5 of 7

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)	LD50	
	Inhalation, rat	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



Armstrong S-330 Once 'N Done Floor Cleaner Concentrate
10-Mar-2015

Armstrong World Industries
2500 Columbia Ave.
Lancaster, PA USA 17603
Telephone: (800) 233-3823
Page 6 of 7

- Handling for disposal** : Handle waste according to recommendations in Section 7.
- 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



Armstrong S-330 Once 'N Done Floor Cleaner Concentrate
10-Mar-2015

Armstrong World Industries
2500 Columbia Ave.
Lancaster, PA USA 17603
Telephone: (800) 233-3823
Page 7 of 7

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
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 Reactivity 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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