

## SAFETY DATA SHEET

### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identifier : **ARDEX FLEX CAULK™**  
Product ID No. : 16730821  
Trade Name/Synonyms : FLEX Caulk  
Material Use : Siliconized Acrylic Color Caulk  
Uses Advised Against : Use only as recommended in the product's Technical Data Sheet.

**Manufacturer's name and address:**



ARDEX L.P.  
400 Ardex Park Dr.  
Aliquippa, PA 15001 USA

Information Telephone No. : (888) 512-7339 or (724) 203-5000  
Website Address : <http://www.ardexamericas.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)**

Carcinogenicity; Category 2  
Reproductive Toxicity, Category 1  
Skin Sensitization, Category 1  
Serious eye damage/eye irritation; Category 2A  
Skin Corrosion/Skin Irritation, Category 2

**GHS Pictograms**



**Signal Word**

Warning!

**Hazard Statements**

Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.  
May cause cancer.  
May damage fertility.

**Precautionary Statements**

Obtain special instructions before use. (See Section 7.) Do not handle until all safety precautions have been read and understood. Avoid breathing dust/vapors. Wear protective gloves/protective clothing/eye protection. Wash hands and exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wash contaminated clothing before reuse. Store locked up. Dispose of contents / container in accordance with federal, state, and local laws. Do not allow product to enter drains.

During normal usage of the product as recommended, airborne dusts and mists will not be present. See Section 7 (Handling and Storage) for further details.

**Hazards Not Otherwise Classified**

None

**% With Unknown Acute Toxicity** : 80% by weight of this product is comprised of ingredients with unknown acute toxicity for inhalation.

**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients	CAS #	% (by weight)
Benzyl butyl phthalate	85-68-7	25 - 50
Limestone	1317-65-3	2 - 12
Titanium dioxide	13463-67-7	2 - 12
Hydrotreated light petroleum distillate	64742-47-8	< 2.5
ammonium hydroxide	1336-21-6	< 2.5
Chlorothalonil	1897-45-6	< 2.5
Nonylphenol ethoxylate	127087-87-0	< 2.5
Crystalline silica, quartz	14808-60-7	< 2.5

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** : Remove person to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: call a doctor/physician.
- Skin contact** : Remove/Take off immediately all contaminated clothing. Flush affected skin with gently flowing lukewarm water. IF SKIN irritation or rash occurs: Get medical advice/attention.
- 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 minor, temporary irritation to respiratory tract. Symptoms may include coughing and shortness of breath.
- Skin* : May cause skin irritation. Symptoms may include redness and itching.
- Eyes* : Causes irritation to eyes. Symptoms may include redness, itching, blurred vision or pain.
- Ingestion* : Symptoms such as gastric pain, nausea, vomiting, and diarrhea may occur.

**Effects of long-term (chronic) exposure**

- Inhalation* : Prolonged inhalation may cause adverse lung effects with symptoms including coughing and shortness of breath.
- Skin* : Prolonged exposure to the skin may cause a sensitization reaction in some individuals, where repeat exposures will result in an allergic skin reaction.
- Eyes* : Same symptoms as acute exposure.
- Ingestion* : Same symptoms as acute exposure.

**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.
- : Ingestion.

**SECTION 5 – FIRE FIGHTING MEASURES**

- Suitable extinguishing media** : Water fog, carbon dioxide, dry chemical powder, alcohol-resistant foam.
- Unsuitable extinguishing media** : water jet

**Hazardous combustion products** : Carbon monoxide, carbon dioxide, and other toxic vapors and gases that are common to thermal degradation of organic compounds.

**Flammability classification (OSHA 29 CFR 1910.1200, WHMIS 2015)**

: Not flammable

**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 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.

**NFPA Rating**

0 - Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Severe

*Health: 1 Flammability 1 Reactivity 0 Special Hazards 0*

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Personal precautions** : See Section 7 for safe handling procedures. Restrict access to area until completion of clean-up. All persons dealing with clean-up should be properly trained and wear the appropriate chemically protective equipment.

**Protective equipment** : Refer to Section 8 for additional information on acceptable personal protective equipment.

**Environmental precautions** : Do not allow product to enter drains or waterways. Do not allow material to contaminate ground water system.

**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). Outside of the U.S. call the emergency number listed in Section 1.

US CERCLA Reportable quantity (RQ): Benzyl butyl phthalate (100 lbs.); ammonium hydroxide (1000 lbs.).

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

: Ventilate area of release. 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 warm soapy water. Notify the appropriate authorities as required.

**Prohibited materials** : Avoid strong oxidizing agents

**Reference to other sections** : See Section 13 for disposal information.

## SECTION 7 – HANDLING AND STORAGE

**Special instructions/ Safe handling procedures**

: Avoid breathing dust/vapors. Do not get in eyes, on skin, or on clothing. Do not swallow. Observe good hygiene standards. Wear protective gloves/protective clothing/eye protection. Wash hands and exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid repeated or prolonged skin contact. Sanding and grinding dusts may be harmful if inhaled. When removing this product from existing flooring (e.g. during a renovation), wear safety goggles and respiratory protection from dust due to sanding, grinding, chipping, or mechanically pulverizing. Wear protective clothing to prevent skin contact. Promptly remove any clothing that becomes contaminated. Wash contaminated clothing before reuse.

**Storage requirements** : Store in a cool, dry, well-ventilated area. Store away from heat and open flame. Avoid storing in direct sunlight. Store in original container. Keep tightly closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning.

- 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
Benzyl butyl phthalate	85-68-7	N/Av	N/Av	N/Av	N/Av
Limestone	1317-65-3	N/Av	N/Av	15 mg/m <sup>3</sup> (total dust); 5 mg/m <sup>3</sup> (respirable)	N/Av
Titanium dioxide	13463-67-7	10 mg/m <sup>3</sup>	N/Av	15 mg/m <sup>3</sup>	N/Av
Hydrotreated light petroleum distillate	64742-47-8	200 mg/m <sup>3</sup>	N/Av	400 mg/m <sup>3</sup>	N/Av
ammonium hydroxide	1336-21-6	25 ppm	35 ppm	50 ppm	N/Av
Chlorothalonil	1897-45-6	N/Av	N/Av	N/Av	N/Av
Nonylphenol ethoxylate	127087-87-0	N/Av	N/Av	N/Av	N/Av
Crystalline silica, quartz	14808-60-7	0.025 mg/m <sup>3</sup> (respirable fraction)	N/Av	0.05 mg/m <sup>3</sup> (respirable) (final rule limit)	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** : Safety glasses with side shields should be worn when using this product.
- Skin protection** : Wear impervious gloves. Materials such as nitrile rubber and Viton (fluorocarbon rubber) are recommended. Consult the glove manufacturer's results for breakthrough time for their gloves with the ingredients listed in Section 3.
- 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 exposures in excess of any PEL, wear an appropriate organic vapor respirator. For exposure to dust, wear a N-95 or better NIOSH approved dust mask.
- Site safety equipment** : An eyewash station should be made available in the immediate working area.
- General hygiene considerations** : Avoid contact with eyes, skin and clothing. Do not breathe vapors/dust. Clean all equipment and clothing at end of each work shift.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- |   |                           |   |                            |
|---|---------------------------|---|----------------------------|
| <b>Physical state</b>                       | : Paste                   | <b>Appearance</b>                             | : White or pigmented paste |
| <b>Odor</b>                                 | : Acrylic-like            | <b>Odor threshold</b>                         | : N/Av                     |
| <b>pH</b>                                   | : 7.5 – 8.5               | <b>Specific gravity</b>                       | : 1.68                     |
| <b>Boiling point</b>                        | : > 100 F (>37°C)         | <b>Coefficient of water/oil distribution</b>  | : N/Av                     |
| <b>Melting/Freezing point</b>               | : N/Av                    | <b>Solubility in water</b>                    | : Dispersible              |
| <b>Vapor pressure (mm Hg @ 20°C / 68°F)</b> | : 2.3 kPa                 | <b>Evaporation rate (n-Butyl acetate = 1)</b> | : N/Av                     |
| <b>Vapor density (Air = 1)</b>              | : N/Av                    | <b>Volatiles (% by wt, includes water)</b>    | : 17                       |
| <b>Volatile Organic Compounds (VOCs)</b>    | : 25 g/L SCAQMD Rule 1168 |   |                            |
| <b>Particle size</b>                        | : N/Av                    | <b>Flammability classification</b>            | : Not flammable            |
| <b>Flash point</b>                          | : >200°F (93.3°C)         | <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>            | : >435°C (815°F)          | <b>Decomposition temperature</b>              | : Not available            |
| <b>Viscosity</b>                            | : Not available           | <b>Oxidizing properties</b>                   | : 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** : Does not react.  
**Stability** : Stable under the recommended storage and handling conditions prescribed.  
**Hazardous reactions** : Hazardous polymerization does not occur.  
**Conditions to avoid** : High temperatures.  
**Materials to avoid and incompatibility** : Oxidizing agents, strong alkalis, strong acids.  
**Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

- Routes of exposure** : *Inhalation:* YES    *Skin Absorption:* NO    *Skin and Eyes:* Yes    *Ingestion:* YES  
**Symptoms of exposure** : See Section 4.  
**Toxicological data** :  
**Calculated Acute Toxicity Estimates (ATEs) for the Product**  
*Inhalation* : > 20 mg/L  
*Oral* : > 3000 mg/kg  
*Dermal* : > 15000 mg/kg  
**Toxicological data** : See below for individual ingredient acute toxicity data.

Ingredients	CAS No	LC50 (4 hr), mg/L Inhalation, rat	LD50, mg/kg	
			Oral, rat	Dermal, rabbit
Benzyl butyl phthalate	85-68-7	N/Av	2330	> 10,000
Limestone	1317-65-3	N/Av	6450	N/Av
Titanium dioxide	13463-67-7	> 6.82	> 24,000	> 10,000
Hydrotreated light petroleum distillate	64742-47-8	N/Av	> 5000	> 2000
ammonium hydroxide	1336-21-6	1.39 (as ammonia)	350	4840
Chlorothalonil	1897-45-6	0.078	10 000	> 10 000
Nonylphenol ethoxylate	127087-87-0	1.15 (mist)	> 2000	> 2000
Crystalline silica, quartz	14808-60-7	N/Av	> 22,500	N/Av

- Skin corrosion or irritation** : May cause irritation to skin.  
**Serious eye damage / eye irritation** : May cause irritation to eyes.  
**Respiratory or skin sensitization** : Chlorothalonil is known to cause skin sensitization reactions.  
**Germ cell mutagenicity** : None known.  
**Carcinogenic status** : Chlorothalonil is classified as a 2B carcinogen by IARC (possibly carcinogenic to humans). It is not classified as carcinogenic by ACGIH, NTP, or OSHA. This product contains Crystalline silica (quartz), which is listed as a known human carcinogen (by inhalation) by IARC (Group 1) and NTP. Some colors contain Titanium dioxide and/or Carbon black. Titanium dioxide is suspected to be carcinogenic by inhalation (IARC 2B). Carbon black is suspected to be carcinogenic by inhalation (IARC 2B) and classified as a carcinogen by NTP. Under normal conditions of use, this product will not produce airborne dust. Avoid operations such as grinding, sanding or sawing without proper dust abatement equipment. See Section 7 for more information.  
**Teratogenicity** : None known.  
**Reproductive toxicity** : Benzyl butyl phthalate is classified as a Reproductive toxicant, Category 1B. Laboratory animal tests show it to be an endocrine disruptor.  
**Specific Target Organ Toxicity, Single Exposure** : None known.

**Specific Target Organ Toxicity, Repeated Exposure**

: None known.

**Aspiration hazard**

: None known.

**Additional information**

: N/Av

**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.

**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**

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	N/Av	Not regulated for ground transportation	N/Av	N/Av	None
TDG Additional Information	None				
49 CFR/DOT	N/Av	Not regulated for ground transportation	N/Av	N/Av	None
49 CFR/DOT Additional Information	None				

**IATA**

: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Butyl benzyl phthalate)

**IMDG**

: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Butyl benzyl phthalate), MARINE POLLUTANT

**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): Benzyl butyl phthalate (100 lbs.); ammonium hydroxide (1000 lbs.).

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:

- Carcinogenicity; Category 2
- Reproductive Toxicity, Category 1
- Skin Sensitization, Category 1
- Serious eye damage/eye irritation; Category 2A
- Skin Corrosion/Skin Irritation, Category 2

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The threshold for this product 10,000 pounds.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This product contains: Ammonium hydroxide and Chlorothalonil.

U.S. State Right To Know Laws

California Proposition 65:

**⚠ WARNING:** This product can expose you to chemicals including Chlorothalonil, which is known to the State of California to cause cancer, and Benzyl butyl phthalate, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Other State Right to Know Laws:

Ingredient on State RTK Law?	CAS #	CA	MA	MN	NJ	NY	PA	RI
Benzyl butyl phthalate	85-68-7	Yes	Yes	Yes	Yes	Yes	Yes	No
Limestone	1317-65-3	No	Yes	No	Yes	No	Yes	Yes
Titanium dioxide	13463-67-7	No	Yes	Yes	Yes	No	Yes	Yes
ammonium hydroxide	1336-21-6	Yes	Yes	No	Yes	Yes	Yes	No
Chlorothalonil	1897-45-6	Yes	Yes	Yes	Yes	No	Yes	No
Crystalline silica, quartz	14808-60-7	No	Yes	Yes	Yes	No	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  
 Recommended 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. ARDEX L.P. 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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**End of Document**