

1. Product and Company Identification

Material name BUTYL ALUMINUM 124650
Revision date 11-17-2014
Version # 03
CAS # Mixture
Product use Butyl caulking.
Manufacturer/Supplier ADCO Products
 4401 Page Ave, P.O. Box 457
 Michigan Center, MI 49254
 US

General Information: 517-764-0334

Emergency 24-Hour Emergency: Chemtrec 1-800-424-9300

2. Hazards Identification

Physical state Liquid.

Appearance Paste.

Emergency overview WARNING

Combustible solid.

Causes skin and eye irritation. In high concentrations, vapors may be irritating to the respiratory system.

OSHA regulatory status This product is hazardous according to OSHA 29 CFR 1910.1200.

Potential health effects

Eyes Causes eye irritation.

Skin Causes skin irritation.

Inhalation In high concentrations, vapors may be irritating to the respiratory system.

Ingestion No harmful effects expected in amounts likely to be ingested by accident.

Target organs Eyes. Skin. Lung.

Potential environmental effects Not expected to be harmful to aquatic organisms.

3. Composition / Information on Ingredients

| Components | CAS # | Percent |
|---------------------|------------|---------|
| Calcium carbonate | 471-34-1 | 15-40 |
| Stoddard solvent | 8052-41-3 | 10-30 |
| Limestone | 1317-65-3 | 5-10 |
| Magnesium carbonate | 546-93-0 | 3-7 |
| Silicon dioxide | 7631-86-9 | 3-7 |
| Kaolin | 1332-58-7 | 0.5-1.5 |
| Carbon black | 1333-86-4 | 0.1-1 |
| Quartz | 14808-60-7 | 0.1-1 |
| Titanium dioxide | 13463-67-7 | 0.1-1 |

Composition comments Any pigments or fillers in this product which may be considered "Hazardous" are potentially hazardous only if inhaled as an air-borne dust. Exposure by these ingredients as used in sealants, putties, bedding compounds and other non-sprayable products is highly unlikely. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

First aid procedures

| | |
|---------------------|---|
| Eye contact | Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention promptly if symptoms occur after washing. |
| Skin contact | Wash off with soap and plenty of water. Get medical attention promptly if symptoms occur after washing. |
| Inhalation | If symptomatic, move to fresh air. Get medical attention if symptoms persist. |
| Ingestion | Seek medical advice. |

5. Fire Fighting Measures

| | |
|---|--|
| Flammable properties | Combustible solid. |
| Extinguishing media | |
| Suitable extinguishing media | Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂). |
| Fire fighting equipment/instructions | Self-contained breathing apparatus operated in positive pressure mode and full protective clothing must be worn in case of fire. |
| Specific methods | Use water spray to cool unopened containers. Move container from fire area if it can be done without risk. |
| Hazardous combustion products | Carbon oxides. Silicon oxides. Nitrogen oxides. |

6. Accidental Release Measures

| | |
|--------------------------------|---|
| Personal precautions | Wear appropriate personal protective equipment (See Section 8). |
| Methods for cleaning up | Eliminate all ignition sources. Sweep or scoop up and remove. |

7. Handling and Storage

| | |
|-----------------|---|
| Handling | Keep away from heat, sparks and open flame. Wear appropriate personal protective equipment (See Section 8). |
| Storage | Keep away from heat, sparks, and flame. Keep container tightly closed in a cool, well-ventilated place. |

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|------------------------------|------|----------------------|-----------------------|
| Kaolin (1332-58-7) | TWA | 2 mg/m ³ | Respirable fraction. |
| Silicon dioxide (7631-86-9) | TWA | 3 mg/m ³ | Respirable particles. |
| | | 10 mg/m ³ | Inhalable particles. |
| Stoddard solvent (8052-41-3) | TWA | 100 ppm | |

U.S. - OSHA

| Components | Type | Value | Form |
|-----------------------------|------|---------------------|--------------|
| Silicon dioxide (7631-86-9) | TWA | 6 mg/m ³ | Unspecified. |
| | | 20 mppcf | Unspecified. |

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Type | Value | Form |
|--------------------------------|------|----------------------|----------------------|
| Calcium carbonate (471-34-1) | PEL | 5 mg/m ³ | Respirable fraction. |
| | | 15 mg/m ³ | Total dust. |
| Kaolin (1332-58-7) | PEL | 5 mg/m ³ | Respirable fraction. |
| | | 15 mg/m ³ | Total dust. |
| Limestone (1317-65-3) | PEL | 5 mg/m ³ | Respirable fraction. |
| | | 15 mg/m ³ | Total dust. |
| Magnesium carbonate (546-93-0) | PEL | 5 mg/m ³ | Respirable fraction. |
| | | 15 mg/m ³ | Total dust. |
| Silicon dioxide (7631-86-9) | PEL | 5 mg/m ³ | Respirable fraction. |
| | | 15 mg/m ³ | Total dust. |

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Type | Value | Form |
|------------------------------|------|------------|------|
| Stoddard solvent (8052-41-3) | PEL | 2900 mg/m3 | |
| | | 500 ppm | |

US. OSHA Table Z-3 (29 CFR 1910.1000)

| Components | Type | Value | Form |
|-----------------------------|------|---------------------|-------------------------------------|
| Silicon dioxide (7631-86-9) | TWA | 5 mg/m3 15 mg/m3 | Respirable fraction. Total dust. |

Canada - Alberta

| Components | Type | Value | Form |
|-----------------------------|------|----------|--------------|
| Silicon dioxide (7631-86-9) | TWA | 10 mg/m3 | Unspecified. |

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

| Components | Type | Value | Form |
|------------------------------|------|----------------------|---|
| Calcium carbonate (471-34-1) | TWA | 10 mg/m3 | |
| Kaolin (1332-58-7) | TWA | 2 mg/m3 | Respirable. |
| Limestone (1317-65-3) | TWA | 10 mg/m3 | |
| Silicon dioxide (7631-86-9) | TWA | 3 mg/m3 10 mg/m3 | Respirable particles. Total particulate. |
| Stoddard solvent (8052-41-3) | TWA | 572 mg/m3 100 ppm | |

Canada - British Columbia

| Components | Type | Value | Form |
|-----------------------------|------|---------|--------|
| Silicon dioxide (7631-86-9) | TWA | 4 mg/m3 | Total. |

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

| Components | Type | Value | Form |
|------------------------------|------|---------------------|-------------------------------------|
| Calcium carbonate (471-34-1) | STEL | 20 mg/m3 | Total dust. |
| | TWA | 3 mg/m3 10 mg/m3 | Respirable fraction. Total dust. |
| Kaolin (1332-58-7) | TWA | 2 mg/m3 | Respirable. |
| Limestone (1317-65-3) | STEL | 20 mg/m3 | Total dust. |
| | TWA | 3 mg/m3 10 mg/m3 | Respirable fraction. Total dust. |
| Silicon dioxide (7631-86-9) | TWA | 1.5 mg/m3 | Respirable. |
| Stoddard solvent (8052-41-3) | STEL | 580 mg/m3 | |
| | TWA | 290 mg/m3 | |

Canada - Ontario

| Components | Type | Value | Form |
|-----------------------------|------|----------|--------------|
| Silicon dioxide (7631-86-9) | TWA | 10 mg/m3 | Unspecified. |

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

| Components | Type | Value | Form |
|--------------------------------|------|----------|----------------------|
| Kaolin (1332-58-7) | TWA | 2 mg/m3 | Respirable fraction. |
| Magnesium carbonate (546-93-0) | TWA | 10 mg/m3 | Total dust. |
| Stoddard solvent (8052-41-3) | TWA | 100 ppm | |

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

| Components | Type | Value | Form |
|--------------------------------|------|-----------|------------------|
| Calcium carbonate (471-34-1) | TWA | 10 mg/m3 | Total dust. |
| Kaolin (1332-58-7) | TWA | 5 mg/m3 | Respirable dust. |
| Limestone (1317-65-3) | TWA | 10 mg/m3 | Total dust. |
| Magnesium carbonate (546-93-0) | TWA | 10 mg/m3 | Total dust. |
| Silicon dioxide (7631-86-9) | TWA | 6 mg/m3 | Respirable dust. |
| Stoddard solvent (8052-41-3) | TWA | 525 mg/m3 | |

Canada. Quebec OELS. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

| Components | Type | Value | Form |
|------------|------|-------|------|
|------------|------|-------|------|

100 ppm

Mexico

| Components | Type | Value | Form |
|------------|------|-------|------|
|------------|------|-------|------|

Silicon dioxide (7631-86-9)

TWA

10 mg/m3

Unspecified.

Mexico. Occupational Exposure Limit Values

| Components | Type | Value |
|------------|------|-------|
|------------|------|-------|

Calcium carbonate
(471-34-1)

STEL

20 mg/m3

Kaolin (1332-58-7)

TWA
STEL

10 mg/m3
20 mg/m3

Limestone (1317-65-3)

TWA
STEL

10 mg/m3
20 mg/m3

Magnesium carbonate
(546-93-0)

TWA
STEL

10 mg/m3
20 mg/m3

Stoddard solvent
(8052-41-3)

TWA
STEL

10 mg/m3
1050 mg/m3

200 ppm
523 mg/m3
100 ppm

Engineering controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye / face protection

Wear safety glasses with side shields (or goggles). Wear a full-face respirator, if needed.

Skin protection

Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

| | |
|---|------------------------------|
| Appearance | Paste. |
| Color | Various. |
| Odor | Hydrocarbon-like. |
| Odor threshold | Not available. |
| Physical state | Liquid. |
| Form | Paste. |
| pH | Not available. |
| Melting point | Not available. |
| Freezing point | Not available. |
| Boiling point | 352 °F (177.8 °C) |
| Flash point | 106 °F (41.1 °C) |
| Evaporation rate | < 0.12 (n-butyl acetate = 1) |
| Flammability limits in air, upper, % by volume | Not available. |
| Flammability limits in air, lower, % by volume | Not available. |
| Vapor pressure | 5 mm Hg (26°C) |
| Vapor density | 5 |

| | |
|--|--------------------|
| Specific gravity | 1.32 |
| Solubility (water) | 0.5 % |
| Partition coefficient (n-octanol/water) | No data available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| VOC | 250 g/l |
| Percent volatile | 10 - 20 |

10. Chemical Stability & Reactivity Information

| | |
|---|--|
| Chemical stability | Material is stable under normal conditions. |
| Conditions to avoid | Keep away from heat, sparks, and flame. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | No hazardous decomposition products are known. |
| Possibility of hazardous reactions | Will not occur. |

11. Toxicological Information

| | |
|------------------------|---|
| Acute effects | Causes skin and eye irritation. In high concentrations, vapors may be irritating to the respiratory system. |
| Sensitization | No sensitizing effects known. |
| Carcinogenicity | Due to the form of the product, exposure to the potentially carcinogenic components is not expected. |

ACGIH Carcinogens

| | |
|-----------------------------------|--|
| Carbon black (CAS 1333-86-4) | A3 Confirmed animal carcinogen with unknown relevance to humans. |
| Kaolin (CAS 1332-58-7) | A4 Not classifiable as a human carcinogen. |
| Quartz (CAS 14808-60-7) | A2 Suspected human carcinogen. |
| Titanium dioxide (CAS 13463-67-7) | A4 Not classifiable as a human carcinogen. |

IARC Monographs. Overall Evaluation of Carcinogenicity

| | |
|-----------------------------------|---|
| Carbon black (CAS 1333-86-4) | 2B Possibly carcinogenic to humans. |
| Quartz (CAS 14808-60-7) | 1 Carcinogenic to humans. |
| Silicon dioxide (CAS 7631-86-9) | 3 Not classifiable as to carcinogenicity to humans. |
| Stoddard solvent (CAS 8052-41-3) | 3 Not classifiable as to carcinogenicity to humans. |
| Titanium dioxide (CAS 13463-67-7) | 2B Possibly carcinogenic to humans. |

US NTP Report on Carcinogens: Known carcinogen

| | |
|-------------------------|-------------------------------|
| Quartz (CAS 14808-60-7) | Known To Be Human Carcinogen. |
|-------------------------|-------------------------------|

12. Ecological Information

| | |
|--|--|
| Ecotoxicity | Not expected to be harmful to aquatic organisms. |
| Persistence and degradability | No data available. |
| Bioaccumulation / Accumulation | No data available. |
| Partition coefficient (n-octanol/water) | No data available. |
| Mobility in environmental media | No data available. |

13. Disposal Considerations

| | |
|-------------------------------|--|
| Waste codes | D001: Waste Flammable material with a flash point <140 °F |
| Disposal instructions | Dispose of contents/container in accordance with local/regional/national/international regulations. When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261. |
| Contaminated packaging | Since emptied containers may retain product residue, follow label warnings even after container is emptied. |

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Basic shipping requirements:

UN number 1133
Proper shipping name Adhesives
Hazard class 3
Packing group III

Additional information:

ERG code 3L

IMDG

Basic shipping requirements:

UN number 1133
Proper shipping name ADHESIVES containing flammable liquid
Hazard class 3
Packing group III
EmS No. F-E, S-D

TDG

Basic shipping requirements:

Proper shipping name ADHESIVES containing flammable liquid
Hazard class 3
UN number UN1133
Packing group III
Additional information:
Special provisions 83

General This material is regulated only in bulk (> 119 Gallons/450 L) sizes. Non-bulk (<=119 Gallons/450 L) shipments can be reclassified to "not regulated" for ground transportation.

15. Regulatory Information

US federal regulations This product is hazardous according to OSHA 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification(40 CFR 707, Subpt. D)

Not regulated.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

Section 302 extremely hazardous substance (40 CFR 355, Appendix A) No

Section 311/312 (40 CFR 370) Yes

Drug Enforcement Administration (DEA) (21 CFR 1308.11-15) Not controlled

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status Controlled

WHMIS classification B3 - Flammable/Combustible
D2B - Other Toxic Effects-TOXIC

WHMIS labeling



Inventory status

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | Yes |
| China | Inventory of Existing Chemical Substances in China (IECSC) | No |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | No |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

WARNING: This product contains chemicals known to the State of California to cause cancer.

US - California Hazardous Substances (Director's): Listed substance

| | |
|----------------------------------|---------|
| Carbon black (CAS 1333-86-4) | Listed. |
| Silicon dioxide (CAS 7631-86-9) | Listed. |
| Stoddard solvent (CAS 8052-41-3) | Listed. |

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

| | |
|------------------------------|---------|
| Carbon black (CAS 1333-86-4) | Listed. |
| Isoprene (CAS 78-79-5) | Listed. |
| Quartz (CAS 14808-60-7) | Listed. |

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

| | |
|-----------------------------------|---|
| Carbon black (CAS 1333-86-4) | Listed: February 21, 2003 Carcinogenic. |
| Isoprene (CAS 78-79-5) | Listed: May 1, 1996 Carcinogenic. |
| Quartz (CAS 14808-60-7) | Listed: October 1, 1988 Carcinogenic. |
| Titanium dioxide (CAS 13463-67-7) | Listed: September 2, 2011 Carcinogenic. |

US - Massachusetts RTK - Substance: Listed substance

| | |
|------------------------------------|---------|
| Calcium carbonate (CAS 471-34-1) | Listed. |
| Carbon black (CAS 1333-86-4) | Listed. |
| Kaolin (CAS 1332-58-7) | Listed. |
| Limestone (CAS 1317-65-3) | Listed. |
| Magnesium carbonate (CAS 546-93-0) | Listed. |
| Quartz (CAS 14808-60-7) | Listed. |
| Silicon dioxide (CAS 7631-86-9) | Listed. |
| Stoddard solvent (CAS 8052-41-3) | Listed. |
| Titanium dioxide (CAS 13463-67-7) | Listed. |

US - New Jersey RTK - Substances: Listed substance

| | |
|------------------------------------|---------|
| Calcium carbonate (CAS 471-34-1) | Listed. |
| Carbon black (CAS 1333-86-4) | Listed. |
| Kaolin (CAS 1332-58-7) | Listed. |
| Limestone (CAS 1317-65-3) | Listed. |
| Magnesium carbonate (CAS 546-93-0) | Listed. |
| Quartz (CAS 14808-60-7) | Listed. |
| Silicon dioxide (CAS 7631-86-9) | Listed. |
| Stoddard solvent (CAS 8052-41-3) | Listed. |
| Titanium dioxide (CAS 13463-67-7) | Listed. |

US - Pennsylvania RTK - Hazardous Substances: Listed substance

| | |
|----------------------------------|---------|
| Calcium carbonate (CAS 471-34-1) | Listed. |
| Carbon black (CAS 1333-86-4) | Listed. |
| Kaolin (CAS 1332-58-7) | Listed. |

Limestone (CAS 1317-65-3)
Quartz (CAS 14808-60-7)
Silicon dioxide (CAS 7631-86-9)
Stoddard solvent (CAS 8052-41-3)
Titanium dioxide (CAS 13463-67-7)

Listed.
Listed.
Listed.
Listed.
Listed.

16. Other Information

Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 2
Flammability: 2
Physical hazard: 0

NFPA ratings

Health: 2
Flammability: 2
Instability: 0

Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Issue date

11-17-2014