



Material Safety Data Sheet AC-[®] 215 Class B Mixed

MSDS No: 42152-00
Effective: 06/26/09
Supersedes: New
Page: 1 of 6

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

SIN #834-100

Product ID: AC-215 Class B Mixed
Generic Description: Polysulfide sealant
Product Use: Aircraft sealant

For information, contact:
Advanced Chemistry & Technology
7341 Anaconda Avenue
Garden Grove, CA 92841-2921
714 - 373 - 2837

ChemTrec Emergency
1 - 800 - 424 - 9300

| HAZARD RATINGS | | |
|----------------|------|------|
| | HMIS | NFPA |
| Health | 1* | 1 |
| Fire | 1 | 1 |
| Reactivity | 0 | 0 |
| * = Chronic | | |

2. COMPOSITION/INFORMATION ON INGREDIENTS

| COMMON NAME | CAS # | Approximate % (w/w) |
|---|----------------|---------------------|
| Calcium carbonate | 471-34-1 | 20 – 30 |
| Titanium Dioxide | 13463-67-7 | 1 – 5 |
| Manganese oxide | 1313 - 13 - 9 | 1 – 5 |
| Terphenyl, hydrogenated | 61788 - 32 - 7 | 1 – 5 |
| Non-hazardous and other ingredients below reportable levels | Proprietary | Balance |

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: MAY CAUSE MODERATE EYE IRRITATION. INGESTION MAY CAUSE NAUSEA, VOMITING, PAIN, UPSET STOMACH, DIARRHEA. PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN IRRITATION. PROLONGED EXPOSURE MAY CAUSE EYE, NOSE AND RESPIRATORY TRACT IRRITATION. DO NOT SWALLOW. See sections 3, 5, & 6.

PRIMARY ROUTES OF EXPOSURE: Eye. Skin.

EYE CONTACT: May cause moderate irritation. Can cause burning sensation, tearing, and redness.

SKIN CONTACT: Prolonged or repeated contact may cause irritation.

INHALATION (Breathing): Can be irritating to eyes, nose, and respiratory tract following prolonged exposure.

INGESTION (Swallowing): Irritating to the mouth, throat, and stomach. May cause nausea, vomiting, pain, and stomach upset (e.g., diarrhea).

TARGET ORGANS/CHRONIC EFFECTS: Lungs and respiratory system. Eyes.

CONDITIONS AGGRAVATED BY EXPOSURE: Lungs and respiratory system.

CARCINOGENICITY:

| | ACGIH | IARC | NTP | OSHA |
|-------------------------|-------|------|-----|------|
| Calcium carbonate | No | No | No | No |
| Titanium Dioxide | No | No | No | No |
| Manganese oxide | No | No | No | No |
| Terphenyl, hydrogenated | No | No | No | No |

4. FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

SKIN CONTACT: Immediately flush with water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Professionally wash clothing and shoes before re-use.



Material Safety Data Sheet AC-[®] 215 Class B Mixed

MSDS No: 42152-00
Effective: 06/26/09
Supersedes: New
Page: 2 of 6

INHALATION (Breathing): Remove to fresh air. If symptoms develop, seek immediate medical attention. If not breathing, give artificial respiration.

INGESTION (Swallowing): Seek medical attention. Immediately induce vomiting, as directed by medical personnel. Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIANS: Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.

5. FIRE FIGHTING METHODS

| | | | |
|-------------------|-----------------------|--------------|-----------------------|
| Flash Point: | > 200F 93.3C | Method.....: | SETA |
| Explosive Limits: | LEL(%) Not Applicable | | UEL(%) Not Applicable |
| Autoignition: | Not Determined | | |

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Smoke, soot, and ntoxic/irritating fumes (i.e., carbon dioxide, carbon monoxide, etc.). Formaldehyde and/or other aldehydes. Oxides of sulfur. Hydrogen sulfide.

FIRE AND EXPLOSION HAZARDS: During a fire, irritating and highly toxic gases may be generated during combustion or decomposition.

EXTINGUISHING MEDIA: SMALL FIRES: Dry chemical, carbon dioxide, halon, water spray, or foam. LARGE FIRES: Water spray, fog, or alcohol foam.

FIRE FIGHTING PROCEDURES/EQUIPMENT: Fire fighters and others who may be exposed to the products of combustion should be equipped with NIOSH-approved positive pressure self-contained breathing apparatus (SCBA) and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

EVACUATION: Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

CONTAINMENT: Safely stop discharge. Contain material, as necessary, with a dike or barrier. Stop material from contaminating soil, or from entering sewers or bodies of water.

CLEAN-UP/PERSONAL PROTECTION EQUIPMENT: Appropriate safety measures and protective equipment should be used. Use supplied air respirator or self-contained breathing apparatus in enclosed spaces or if airborne exposure limits can be exceeded. See Section 8.

COLLECTION AND DISPOSAL: Stop discharge, if safe to do so. Use proper protective equipment. Cover spills with absorbent clay or sawdust and place in closed chemical waste containers. Dispose of according to applicable local, state and federal regulations.

REPORTING: Spills of this material in excess of a component's RQ must be reported to the National Response Center (1-800-424-8802) and to the appropriate state and local emergency response organizations. No regulated ingredients.

7. HANDLING AND STORAGE

Storage Temperature < -40°F

STORAGE CONDITIONS: Store in cool, dry, well ventilated area.

TRANSFER: No special precautions are needed. Follow good manufacturing and handling practices.

PERSONAL HYGIENE: Wash thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities. Wash contaminated goggles, faceshield, and gloves. Professionally launder contaminated clothing before re-use.



Material Safety Data Sheet

AC-[®] 215 Class B Mixed

MSDS No: 42152-00
Effective: 06/26/09
Supersedes: New
Page: 3 of 6

EMPTY CONTAINER PRECAUTIONS: Attention! This container can be hazardous when empty. Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container without professional cleaning for food, clothing, or products for human or animal consumption or where skin contact can occur.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

ACGIH - TLV

| | | |
|--|-----|------------------------------|
| Calcium carbonate | 10 | mg/M ³ Total dust |
| Titanium Dioxide | 10 | mg/M ³ |
| Manganese oxide, as dust and compounds | 5 | mg/M ³ |
| Manganese oxide, Fume | 1 | mg/M ³ |
| Terphenyl, hydrogenated | 0.5 | ppm - Ceiling |

OSHA - PEL

| | | |
|-------------------------|-----|------------------------------|
| Calcium carbonate | 5 | mg/M ³ Resp. dust |
| Titanium Dioxide | 10 | mg/M ³ |
| Manganese oxide, Fume | 1 | mg/M ³ |
| Terphenyl, hydrogenated | 0.5 | ppm - Ceiling |

ENGINEERING CONTROLS/VENTILATION: Local exhaust ventilation is recommended when vapors, mists, or dusts can be released in excess of established airborne exposure limits (TLVs or PELs).

EYE PROTECTION: Wear chemical splash goggles or safety glasses with side shields. An eye wash facility should be readily available.

SKIN PROTECTION: Wear protective clothing and appropriate impervious gloves. Because a variety of protective gloves exist, consult glove manufacturer to determine the proper type for a specific operation.

RESPIRATORY PROTECTION: Avoid breathing vapor and/or mists. Wear NIOSH/MSHA-approved equipment. Determine the appropriate type by consulting the respirator manufacturer. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA) or a supplied air respirator. Respiratory protection programs must be in compliance with 29 CFR 1910.134.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-------------------|-----------------------|-------------------|-----------------|
| Appearance: | Gray | Odor: | Mercaptan |
| Physical State: | Paste | Solubility: | Insoluble |
| pH: | Not Applicable | Vapor Pressure: | Not Established |
| Vapor Density: | Not Established | Evaporation Rate: | Not Established |
| VOC Material: | 16 g/l (0.13 lbs/gal) | | |
| Specific Gravity: | 1.54 | %Non-Vol (w/w): | 98 |

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions of use.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Not applicable.

INCOMPATIBILITY WITH OTHER MATERIALS: Oxidizers. Reducers. Acids. Strong bases.



Material Safety Data Sheet AC-[®] 215 Class B Mixed

MSDS No: 42152-00
Effective: 06/26/09
Supersedes: New
Page: 4 of 6

11. TOXICITY INFORMATION

COMPONENTS:

Calcium carbonate:

Repeated exposure to dusts can lead to particulate deposition in the lungs (i.e., pneumoconiosis).

Titanium Dioxide:

In a 2-year study in rats, an increase in benign and malignant lung tumors was observed at 250 mg/M³ respirable dust level. This level is 50 times the current occupational exposure level and is not expected to correlate to human exposures.

Manganese oxide:

Eye, skin, and respiratory tract irritant. Can cause liver and kidney injury.

Terphenyl, hydrogenated:

| | | | |
|-------------|--------|---------|-------|
| Oral LD50 | Rat | 17,500 | mg/kg |
| | Mouse | 12,500 | mg/kg |
| Dermal LD50 | Rabbit | > 2,000 | mg/kg |

12. ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

The product must not be allowed to run into drains or waterways.

Ecotoxicity:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

DISPOSAL: Dispose in accordance with all local, state, and federal regulations.

GENERAL STATEMENTS: Federal regulations may apply to empty container. State and/or local regulations may be different.

GENERAL RECOMMENDATIONS: Of the methods of disposal currently available, it is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability: (1) recycle or rework, if feasible; (2) incinerate at an authorized facility; or (3) treat at an acceptable waste treatment facility.

SPECIAL INSTRUCTIONS: Be sure to contact the appropriate government environmental agencies if further guidance is required.

14. TRANSPORT INFORMATION

| | | | | |
|-------------|---------------|--------|------|-----|
| Weight (lb) | Shipping Name | 49 CFR | IATA | IMO |
| | Non-regulated | Y | Y | Y |

DOT Label.....: Not applicable UN/NA Id Num...: Not Applicable

15. REGULATORY INFORMATION

FEDERAL:

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SARA Title III - Section 311/312 - Hazard Categories:

N - Fire Hazard



Material Safety Data Sheet

AC-[®] 215 Class B Mixed

MSDS No: 42152-00
Effective: 06/26/09
Supersedes: New
Page: 5 of 6

N - Sudden Release of Pressure Hazard
N - Reactivity Hazard
Y - Immediate (acute) Health Hazard
Y - Delayed (chronic) Health Hazard

Ozone-Depleting Chemicals - No regulated ingredients.

SARA Section 302 Extremely Hazardous Mat - No regulated ingredients.

SARA Section 313 Toxic Chemicals –
Manganese Oxide

CHEMICAL LISTING - Listed on the following Country's Chemical Inventories:

United States Toxic Substance Control Act
Chemical component(s) in this product are on the section 8(b) Chemical Substance Inventory List (40 CFR 710).

STATE RIGHT-TO-KNOW:

Pennsylvania - New Jersey R-T-K

| Ingredient | CAS number | Weight Percent Range |
|--|----------------|----------------------|
| Calcium carbonate | 471-34-1 | 20 – 30 |
| Titanium Dioxide | 13463-67-7 | 1 – 5 |
| Manganese oxide | 1313 - 13 - 9 | 1 – 5 |
| Terphenyl, hydrogenated | 61788 - 32 - 7 | 1 – 5 |
| Non-hazardous trade secret ingredient(s) | Proprietary | Balance |

California - California Proposition 65

WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

| | | |
|-----------------------------|------------|---------|
| Quartz (crystalline silica) | 14808-60-7 | < 0.1 |
| Cancer Hazard. | | |
| Formaldehyde | 50-00-0 | Trace * |
| Cancer Hazard. | | |

* Trace = present at less than 0.01 percent.

CONEG - No data available.

CANADA:

This is a "controlled product" under the Canadian Workplace Hazardous Materials Information System (WHMIS).
Class D Division 2 Sub-division B

CEPA - NPRI - No regulated ingredients.

MSDS No: 42152-00
Effective: 06/26/09
Supersedes: New
Page: 6 of 6

EUROPEAN COMMUNITY:

Particular hazards associated with the preparation and safety recommendations:

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S37/39 Wear suitable gloves and eye/face protection.
S29 Do not empty into drains.

N



Xi



Dangerous to Environment

Contains:

25-01-00-3

Manganese dioxide

16. OTHER INFORMATION

USER RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein - are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER OF LIABILITY: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

End of Material Safety Data Sheet