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Revision Number 04

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name AC-®735 Class B Base

Product Code(s) AC735 Class B-1/2 and B-2

Recommended Use Aircraft Sealant.

Company Advanced Chemistry & Technology, Inc.
7341 Anaconda Avenue
Garden Grove, CA 92841

Company Emergency Phone Number 714-373-2837 (8 AM to 5 PM Pacific)

Emergency Telephone Number Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

CAUTION!

Emergency Overview

May cause skin, eye, and respiratory tract irritation

Appearance White **Physical State** Paste/Gel **Odor** Sulphurous

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects
Principle Routes of Exposure Skin contact, Eye contact, Inhalation

Acute Toxicity

Eyes Contact with eyes may cause irritation.

Skin Substance may cause slight skin irritation.

Inhalation May cause irritation of respiratory tract.

Ingestion Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects Repeated or prolonged skin contact with the unexposed coating may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

Main Symptoms Redness.

Aggravated Medical Conditions Liver disorders. Kidney disorders. Skin disorders. Allergies.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % |
|-------------------|------------|-----------|
| Calcium carbonate | 471-34-1 | 15-20 |
| Titanium dioxide | 13463-67-7 | 1 - 5 |
| Formaldehyde | 50-00-0 | 0.01-0.04 |
| Phenol | 108-95-2 | 0.01-0.08 |

| | | |
|---------------------|-----------|-------|
| Trizinc diphosphate | 7779-90-0 | 1 - 5 |
|---------------------|-----------|-------|

4. FIRST AID MEASURES

| | |
|-----------------------------------|---|
| General Advice | If symptoms persist, call a physician. |
| Eye Contact | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| Skin Contact | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If symptoms persist, call a physician. Remove and wash contaminated clothing before re-use. |
| Inhalation | Remove from exposure, lie down. If symptoms persist, call a physician. |
| Ingestion | Do not induce vomiting without medical advice. Consult a physician. |
| Notes to Physician | Treat symptomatically. |
| Protection of First-aiders | Use personal protective equipment. |

5. FIRE-FIGHTING MEASURES

| | |
|--|--|
| Flash Point Method | > 110 °C / > 230 °F Closed cup |
| Suitable Extinguishing Media | Dry chemical, CO ₂ , water spray or alcohol-resistant foam. |
| Uniform Fire Code | • Combustible Liquid: III-B |
| Hazardous Combustion Products | Carbon oxides, Carbon monoxide, Carbon dioxide (CO ₂), Sulfur oxides |
| Explosion Data | |
| Sensitivity to Mechanical Impact | Not impact sensitive. |
| Sensitivity to Static Discharge | Not sensitive. |
| Protective Equipment and Precautions for Firefighters | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |
| NFPA | Health Hazard 1 Flammability 1 Stability 0 Physical and Chemical Hazards N/A |

6. ACCIDENTAL RELEASE MEASURES

| | |
|--------------------------------|---|
| Personal Precautions | Avoid contact with the skin and the eyes. Use personal protective equipment. Ensure adequate ventilation. |
| Methods for Containment | Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). |
| Methods for Cleaning Up | Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. |

7. HANDLING AND STORAGE

Handling Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not smoke.

Storage Keep at temperatures below 28°C.. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|----------------------------------|---------------------------|---|--|
| Calcium carbonate 471-34-1 | | TWA: 5 mg/m ³ TWA: 15 mg/m ³ | TWA: 5 mg/m ³ TWA: 10 mg/m ³ |
| Titanium dioxide 13463-67-7 | TWA: 10 mg/m ³ | TWA: 15 mg/m ³ | IDLH: 5000 mg/m ³ |
| Formaldehyde 50-00-0 | | TWA: 0.75 ppm | IDLH: 20 ppm Ceiling: 0.1 ppm TWA: 0.016 ppm |
| Phenol 108-95-2 | TWA: 5 ppm | TWA: 5 ppm TWA: 19 mg/m ³ | IDLH: 250 ppm Ceiling: 60 mg/m ³ Ceiling: 15.6 ppm TWA: 5 ppm TWA: 19 mg/m ³ |
| Trizinc diphosphate 7779-90-0 | | | |

Engineering Measures Showers, eyewash stations, and ventilation systems.

Personal Protective Equipment

Eye/Face Protection Safety glasses with side-shields.
Skin and Body Protection Wear protective gloves/clothing.
Respiratory Protection Maintain adequate ventilation.

Hygiene Measures Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---------------------------------|---------------------------|-----------------------------------|--|
| Appearance | White | Odor | Sulphurous |
| Physical State | Paste/Gel | Method | Closed cup |
| Flash Point | > 110 °C / > 230 °F | Boiling Point/Range | No information available |
| Autoignition Temperature | No information available | Flammability Limits in Air | No information available |
| Explosion Limits | Not applicable | Solubility | Soluble in aromatic hydrocarbons and ketones |
| Water Solubility | Negligible | Vapor Pressure | No information available |
| Evaporation Rate | Not applicable | Density | 1.1 g/cc |
| Vapor Density | No information available. | Actual VOC (lb/gal) | 0.02 |
| Weight per Gallon (lbs) | 9.16 | EPA VOC (g/l) | 2.6 |
| EPA VOC (lb/gal) | 0.02 | | |

10. STABILITY AND REACTIVITY

Stability Hazardous polymerization does not occur.

Incompatible Products Incompatible with strong acids and bases. Strong reducing agents.

Hazardous Decomposition Products Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides.

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information The product itself has not been tested.

Irritation May cause skin and eye irritation.

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---------------------|---------------------|---|---|
| Calcium carbonate | 6450 mg/kg (Rat) | | |
| Titanium dioxide | 10000 mg/kg (Rat) | | |
| Formaldehyde | 100 mg/kg (Rat) | 270 mg/kg (Rabbit) | 0.578 mg/L (Rat) 4 h 250 ppm (Rat) 4 h |
| Phenol | 317 mg/kg (Rat) | 525 mg/kg (Rat) 630 mg/kg (Rabbit) | |
| Trizinc diphosphate | 5000 mg/kg (Rat) | | |

Chronic Toxicity

Chronic Toxicity Repeated or prolonged skin contact with the unexposed coating may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|------------------|-------|----------|------------------------|------|
| Titanium dioxide | | Group 2B | | X |
| Formaldehyde | A2 | Group 1 | Reasonably Anticipated | X |

Legend:

IARC: (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans

12. ECOLOGICAL INFORMATION

Ecotoxicity

This product contains an ingredient that is classified, according to European regulations, as "harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment".

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Microtox | Daphnia Magna (Water Flea) |
|---------------|-------------------|--|---|---|
| Formaldehyde | | LC50= 0.10 mg/L <i>Lepomis macrochirus</i> 96 h LC50= 24.1 mg/L <i>Pimephales promelas</i> 96 h LC50= 41 mg/L <i>Brachydanio rerio</i> 96 h | EC50 = 1.2 mg/L 1 h EC50 = 16.5 mg/L 30 min EC50 = 3.7 mg/L 5 h EC50 = 5.39 mg/L 72 h EC50 = 6.81 mg/L 25 min EC50 = 7.26 mg/L 15 min EC50 = 9.0 mg/L 5 min | EC50 = 2 mg/L 48 h EC50 = 20 mg/L 96 h |

| | | | | |
|--------|----------------------|---|--|--|
| Phenol | EC50 = 150 mg/L 96 h | LC50 5 - 12 mg/L Oncorhynchus mykiss 96 h LC50= 23.88 mg/L Lepomis macrochirus 96 h LC50= 24 mg/L Pimephales promelas 96 h LC50= 27.8 mg/L Brachydanio rerio 96 h LC50= 40 mg/L Poecilia reticulata 96 h LC50= 8.9 mg/L Oncorhynchus mykiss 96 h | EC50 21 - 36 mg/L 30 min EC50 = 23.28 mg/L 5 min EC50 = 25.61 mg/L 15 min EC50 = 28.8 mg/L 5 min EC50 = 31.6 mg/L 15 min | LC50 = 13 mg/L 48 h EC50 = 23.0 mg/L 48 h |
|--------|----------------------|---|--|--|

| Chemical Name | Log Pow |
|---------------|--------------|
| Formaldehyde | = 0.35 25 °C |
| Phenol | = 1.47 |

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of in accordance with local regulations.

| Chemical Name | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|---------------------------------|--------------------------------------|------------------------|------------------------|------------------------|
| Calcium carbonate - 471-34-1 | | | | |
| Titanium dioxide - 13463-67-7 | | | | |
| Formaldehyde - 50-00-0 | | | | |
| Phenol - 108-95-2 | | | | |
| Trizinc diphosphate - 7779-90-0 | | | | |

| Chemical Name | California Hazardous Waste Status |
|---------------------|-----------------------------------|
| Formaldehyde | Toxic; Ignitable |
| Phenol | Toxic; Corrosive |
| Trizinc diphosphate | Toxic |

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

| | |
|---------------|----------|
| TSCA | Complies |
| DSL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Complies |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Complies |
| AICS | Complies |

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | CAS-No | Weight % | SARA 313 - Threshold Values % |
|---------------------|-----------|-----------|-------------------------------|
| Formaldehyde | 50-00-0 | 0.01-0.04 | 0.1 |
| Phenol | 108-95-2 | 0.01-0.08 | 1.0 |
| Trizinc diphosphate | 7779-90-0 | 1 - 5 | 1.0 |

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | Yes |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

Clean Water Act

| Component | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|--|-----------------------------|------------------------|---------------------------|----------------------------|
| Formaldehyde 50-00-0 (0.01-0.04) | 100 lb | | | X |
| Phenol 108-95-2 (0.01-0.08) | 1000 lb | X | X | X |
| Trizinc diphosphate 7779-90-0 (1 - 5) | | X | | |

| Chemical Name | CAS-No | Weight % | HAPS data | VOC Chemicals | Class 1 Ozone Depletors | Class 2 Ozone Depletors |
|---------------|----------|-----------|-----------|---------------|-------------------------|-------------------------|
| Formaldehyde | 50-00-0 | 0.01-0.04 | Present | Group I | | |
| Phenol | 108-95-2 | 0.01-0.08 | Present | Group III | | |

CERCLA

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances RQs |
|---------------|--------------------------|------------------------------------|
| Formaldehyde | 100 lb | 100 lb |
| Phenol | 1000 lb | 1000 lb |

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

| Chemical Name | CAS-No | California Prop. 65 |
|---------------|---------|---------------------|
| Formaldehyde | 50-00-0 | Carcinogen |

| Chemical Name | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|-------------------|---------------|------------|--------------|----------|--------------|
| Calcium carbonate | X | | X | | X |
| Titanium dioxide | X | X | X | | X |
| Formaldehyde | X | X | X | X | X |

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS