Material Safety Data Sheet

Issuing Date December 23, 2009 **Revision Date** December 22, 2009 **Revision Number** 10

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name **AC-®236 Class B Base**

Product Code(s) AC-236 Class B-1/2, B-2, and B-4 Base

UN-No Not regulated

Recommended Use 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, Inhalation, Eye contact

Acute Toxicity

Eyes Contact with eyes may cause irritation.

Skin May cause 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 may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

Main Symptoms Redness.

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

Environmental Hazard See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %

Calcium carbonate	471-34-1	30 - 40
Phenol	108-95-2	.01-.05
Formaldehyde	50-00-0	.01-0.04
Titanium dioxide	13463-67-7	1 - 5

4. FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Get medical attention immediately if symptoms occur.

Skin Contact Wash skin with soap and water.

Inhalation Administer oxygen if breathing is difficult and you are trained. Apply artificial respiration if victim is not breathing.

Ingestion Do not induce vomiting without medical advice. Consult a physician.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point > 93 °C / > 200 °F
Method Closed cup

Suitable Extinguishing Media Use:. Water spray. Carbon dioxide (CO_2). Dry chemical.

Hazardous Combustion Products Carbon monoxide, Carbon dioxide (CO_2), Sulfur oxides, Nitrogen oxides (NOx), Aldehydes

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. Refer to Section 8.

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
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
Formaldehyde 50-00-0		TWA: 0.75 ppm	IDLH: 20 ppm Ceiling: 0.1 ppm TWA: 0.016 ppm
Titanium dioxide 13463-67-7	TWA: 10 mg/m^3	TWA: 15 mg/m^3	IDLH: 5000 mg/m^3

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. General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White	**Odor**	Sulphurous
Physical State	Paste/Gel	**pH**	No data available
Flash Point	> 93 °C / > 200 °F	**Method**	Closed cup
Autoignition Temperature	No data available	**Boiling Point/Range**	Not applicable
		Flammability Limits in Air	No information available
Explosion Limits	No information available		
Specific Gravity	1.63 g/cc	**Solubility**	Soluble in aromatic hydrocarbons and ketones
Evaporation Rate	No information available	**Vapor Pressure**	No information available
Vapor Density	No information available.	**Weight per Gallon (lbs)**	13.41
Actual VOC (lb/gal)	0.07	**EPA VOC (lb/gal)**	0.07
EPA VOC (g/l)	8	**Viscosity**	Thixotropic paste

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

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

Conditions to Avoid Keep away from children.

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. May be harmful if swallowed.

Irritation Moderately irritating to eyes, skin and respiratory system.

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

Chronic Toxicity

Chronic Toxicity Repeated or prolonged skin contact 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
Formaldehyde	A2	Group 1	Reasonably Anticipated	X
Titanium dioxide		Group 2B		X

Target Organ Effects Liver, Kidney, Skin

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)
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
Formaldehyde		LC50= 0.10 mg/L Lepomis macrochirus 96 h LC50= 24.1 mg/L Pimephales promelas 96 h LC50= 41 mg/L Brachydanio rerio 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

Chemical Name	Log Pow
Phenol	= 1.47

Formaldehyde	= 0.35 25 °C

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of contents/container in accordance with local regulation.

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

Chemical Name	California Hazardous Waste Status
Phenol	Toxic; Corrosive
Formaldehyde	Toxic; Ignitable

14. TRANSPORT INFORMATION

DOT Not regulated
UN-No 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 %
Phenol	108-95-2	.01-.05	1.0
Formaldehyde	50-00-0	.01-0.04	0.1

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
Phenol 108-95-2 (.01-.05)	1000 lb	X	X	X
Formaldehyde 50-00-0 (.01-0.04)	100 lb			X

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Phenol	108-95-2	.01-.05	Present	Group III		
Formaldehyde	50-00-0	.01-0.04	Present	Group I		

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Phenol	1000 lb	1000 lb
Formaldehyde	100 lb	100 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
Phenol	X	X	X	X	X
Formaldehyde	X	X	X	X	X
Titanium dioxide	X	X	X		X

International Regulations

Mexico - Grade Slight risk, Grade 1

Chemical Name	Carcinogen Status	Exposure Limits
Calcium carbonate		Mexico: TWA= 10 mg/m^3
Phenol		Mexico: TWA= 5 ppm Mexico: TWA= 19 mg/m^3
Formaldehyde	A2	
Titanium dioxide		Mexico: TWA= 10 mg/m^3

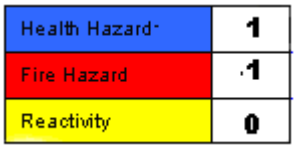
Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
D2A Very toxic materials
D2B Toxic materials

Chemical Name	NPRI
Phenol	X
Formaldehyde	X

16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol
			Not regulated

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Disclaimer
The information provided on this SDS 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