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Revision Number 04

1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** AC-®730 Class B Mixed  
**Product Code(s)** AC-730 Class B-1/2, B-2, B-4, B-6, and B-12 Mixed  
**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 irritation and/or dermatitis

Mild eye irritation

May be harmful if swallowed

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

**Appearance** Black

**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.

**Acute Toxicity**

**Eyes**

Moderately irritating to the eyes.

**Skin**

Substance may cause slight skin irritation.

**Inhalation**

May cause irritation of respiratory tract.

**Ingestion**

May be harmful if swallowed. Ingestion may cause irritation to mucous membranes.

**Chronic Effects**

Prolonged exposure may cause 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**

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**Aggravated Medical Conditions**

Liver disorders. Kidney disorders. Respiratory disorders. Skin disorders.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Calcium carbonate	471-34-1	20 - 25
Manganese dioxide	1313-13-9	1-5
Hydrogenated terphenyls	61788-32-7	1-5
Phenol	108-95-2	0.0001-0.008
Formaldehyde	50-00-0	0.0001-0.004

**Additional Notes** All components of this product are listed in the EINECS/ELINCS or are exempt.

### 4. FIRST AID MEASURES

<b>General Advice</b>	If symptoms persist, call a physician.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Skin Contact</b>	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.
<b>Inhalation</b>	Remove from exposure, lie down. If symptoms persist, call a physician. If not breathing, give artificial respiration.
<b>Ingestion</b>	Call a physician immediately. Do not induce vomiting without medical advice.
<b>Notes to Physician</b>	Treat symptomatically.
<b>Protection of First-aiders</b>	Use personal protective equipment.

### 5. FIRE-FIGHTING MEASURES

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

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with the skin and the eyes. Use personal protective equipment. Ensure adequate ventilation.
<b>Methods for Containment</b>	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).
<b>Methods for Cleaning Up</b>	Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not smoke.
<b>Storage</b>	Keep at temperature not exceeding -40°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 <sup>3</sup> TWA: 15 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>
Manganese dioxide 1313-13-9	TWA: 0.2 mg/m <sup>3</sup>	(vacated) Ceiling: 5 mg/m <sup>3</sup> Ceiling: 5 mg/m <sup>3</sup>	IDLH: 500 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>
Hydrogenated terphenyls 61788-32-7	TWA: 0.5 ppm	(vacated) TWA: 0.5 ppm (vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 0.5 ppm TWA: 5 mg/m <sup>3</sup>
Phenol 108-95-2	TWA: 5 ppm	TWA: 5 ppm TWA: 19 mg/m <sup>3</sup>	IDLH: 250 ppm Ceiling: 60 mg/m <sup>3</sup> Ceiling: 15.6 ppm TWA: 5 ppm TWA: 19 mg/m <sup>3</sup>
Formaldehyde 50-00-0		TWA: 0.75 ppm	IDLH: 20 ppm Ceiling: 0.1 ppm TWA: 0.016 ppm

<b>Engineering Measures</b>	Showers, eyewash stations, and ventilation systems.
<b>Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	Safety glasses with side-shields.
<b>Skin and Body Protection</b>	Wear protective gloves/clothing.
<b>Respiratory Protection</b>	Maintain adequate ventilation.
<b>Hygiene Measures</b>	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

<b>Appearance</b>	Black	<b>Odor</b>	Sulphurous
<b>Physical State</b>	Paste/Gel		
<b>Flash Point</b>	> 110 °C / > 230 °F	<b>Method</b>	Closed cup
<b>Autoignition Temperature</b>	No information available	<b>Boiling Point/Range</b>	No information available

<b>Explosion Limits</b>	No information available	<b>Flammability Limits in Air</b>	No information available
<b>Solubility</b>	Soluble in aromatic hydrocarbons and ketones	<b>Evaporation Rate</b>	No information available
<b>Vapor Pressure</b>	No information available	<b>Vapor Density</b>	No information available.
<b>Density</b>	1.5 g/cc	<b>Weight per Gallon (lbs)</b>	12.55
<b>Actual VOC (lb/gal)</b>	0.02	<b>EPA VOC (lb/gal)</b>	0.02
<b>EPA VOC (g/l)</b>	3.1		

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Hazardous polymerization does not occur.
<b>Incompatible Products</b>	Incompatible with strong acids and bases. Strong reducing agents.
<b>Hazardous Decomposition Products</b>	Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

<b>Product Information</b>	The product itself has not been tested.
<b>Irritation</b>	Moderately irritating to eyes, skin and respiratory system.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Calcium carbonate	6450 mg/kg ( Rat )		
Manganese dioxide	9000 mg/kg ( Rat )		
Hydrogenated terphenyls	10200 mg/kg ( Rat )	6800 mg/kg ( Rabbit )	4.3 mg/L ( Rat ) 4 h
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

### Chronic Toxicity

<b>Chronic Toxicity</b>	Prolonged exposure may cause chronic effects. Repeated or prolonged skin contact with the unexposed coating may cause skin irritation and/or dermatitis and sensitization of susceptible persons.
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**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

**ACGIH: (American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen

**IARC: (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

**NTP: (National Toxicity Program)**

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

## 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)
Hydrogenated terphenyls	EC50 > 0.53 mg/L 96 h	LC50> 0.53 mg/L Lepomis macrochirus 96 h LC50> 0.53 mg/L Oncorhynchus mykiss 96 h LC50> 0.53 mg/L Pimephales promelas 96 h		EC50 = 0.011 mg/L 48 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
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
Manganese dioxide	< 0 20 °C
Phenol	= 1.47
Formaldehyde	= 0.35 25 °C

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** Dispose of in accordance with local regulations.

**Contaminated Packaging** Empty containers should be taken for local recycling, recovery or waste disposal.

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

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated



**15. REGULATORY INFORMATION**

**International Inventories**

<b>TSCA</b>	Listed
<b>DSL</b>	Listed
<b>EINECS/ELINCS</b>	Not Listed
<b>ENCS</b>	Not Listed
<b>IECSC</b>	Listed
<b>KECL</b>	Listed
<b>PICCS</b>	Listed
<b>AICS</b>	Listed

**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 %
Manganese dioxide	1313-13-9	1-5	1.0
Phenol	108-95-2	0.0001-0.008	1.0
Formaldehyde	50-00-0	0.0001-0.004	0.1

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**Clean Water Act**

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phenol 108-95-2 ( 0.0001-0.008 )	1000 lb	X	X	X
Formaldehyde 50-00-0 ( 0.0001-0.004 )	100 lb			X

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Manganese dioxide	1313-13-9	1-5	Present (includes any unique chemical substance that contains Manganese as part of its infrastructure)			
Phenol	108-95-2	0.0001-0.008	Present	Group III		
Formaldehyde	50-00-0	0.0001-0.004	Present	Group I		

**CERCLA**

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Phenol	1000 lb	1000 lb

Formaldehyde	100 lb	100 lb
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### 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
Manganese dioxide		X	X	X	
Hydrogenated terphenyls	X		X		
Phenol	X	X	X	X	X
Formaldehyde	X	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 <sup>3</sup>
Manganese dioxide		Mexico: TWA= 0.2 mg/m <sup>3</sup>
Hydrogenated terphenyls		Mexico: TWA= 0.5 ppm Mexico: TWA= 5 mg/m <sup>3</sup>
Phenol		Mexico: TWA= 5 ppm Mexico: TWA= 19 mg/m <sup>3</sup>
Formaldehyde	A2	

#### 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
Manganese dioxide	X
Phenol	X
Formaldehyde	X

### 16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td>Health Hazard</td> <td>1</td> </tr> <tr> <td>Fire Hazard</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	Health Hazard	1	Fire Hazard	1	Reactivity	0		Not regulated
Health Hazard	1								
Fire Hazard	1								
Reactivity	0								

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 Director of R&D  
  
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**Disclaimer**

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**End of MSDS**