



**Issuing Date** December 22, 2009

**Revision Date** December 21, 2009

**Revision Number** 05

**1. PRODUCT AND COMPANY IDENTIFICATION**

<b>Product Name</b>	<b>AC-@735 Catalyst</b>
<b>Product Code(s)</b>	AC-735 Catalyst
<b>UN-No</b>	Not regulated
<b>Recommended Use</b>	Hardener .
<b>Company</b>	Advanced Chemistry & Technology, Inc. 7341 Anaconda Avenue Garden Grove, CA 92841
<b>Company Emergency Phone Number</b>	714-373-2839 (8 AM to 5 PM Pacific)
<b>Emergency Telephone Number</b>	Chemtrec 1-800-424-9300

**2. HAZARDS IDENTIFICATION**

**CAUTION!**

**Emergency Overview**  
 May be harmful if inhaled  
 May cause skin, eye, and respiratory tract irritation  
 May be harmful if swallowed

<b>Appearance</b> Dark brown, Viscous liquid	<b>Physical State</b> Viscous liquid	<b>Odor</b> Slight
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**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** Eye contact, Skin contact, Ingestion

**Acute Toxicity**

<b>Eyes</b>	May cause slight irritation.
<b>Skin</b>	Substance may cause slight skin irritation.
<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Ingestion</b>	May be harmful if swallowed.

**Chronic Effects** Repeated or prolonged skin contact 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. Central nervous system.

**Interactions with Other Chemicals** No information available.

**Environmental Hazard** May cause long-term adverse effects in the aquatic environment.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
Hydrogenated terphenyls	61788-32-7	35 - 40
Terphenyls	26140-60-3	1 - 5
Manganese dioxide	1313-13-9	45 - 50

#### 4. FIRST AID MEASURES

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician. Remove and wash contaminated clothing before re-use.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician. If breathing is irregular or stopped, administer artificial respiration.
<b>Ingestion</b>	Do not induce vomiting without medical advice. Consult a physician. Never give anything by mouth to an unconscious person.
<b>Notes to Physician</b>	Treat symptomatically.
<b>Protection of First-aiders</b>	Avoid contact with skin, eyes and clothing.

#### 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>Hazardous Combustion Products</b>	Carbon oxides, Carbon monoxide, Carbon dioxide (CO <sub>2</sub> )
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	Not sensitive.
<b>Sensitivity to Static Discharge</b>	Not sensitive.
<b>Specific Hazards Arising from the Chemical</b>	In the event of fire and/or explosion do not breathe fumes. Do not allow run-off from fire fighting to enter drains or water courses.
<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
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#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with skin, eyes and clothing.
<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>	Prevent product from entering drains. Take up mechanically and collect in suitable container for disposal. Use personal protective equipment.



**Conditions to Avoid** Excessive heat.

**Hazardous Decomposition Products** Carbon oxides. Nitrogen oxides (NOx). Thermal decomposition can lead to release of irritating gases and vapors.

**Hazardous Reactions** None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrogenated terphenyls	10200 mg/kg ( Rat )	6800 mg/kg ( Rabbit )	4.3 mg/L ( Rat ) 4 h
Terphenyls		12500 mg/kg ( Rabbit )	
Manganese dioxide	9000 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** Contains no ingredient listed as a carcinogen.

**Target Organ Effects** Liver, Kidney, Skin, Central nervous system (CNS)

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated. 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 <i>Lepomis macrochirus</i> 96 h LC50> 0.53 mg/L <i>Oncorhynchus mykiss</i> 96 h LC50> 0.53 mg/L <i>Pimephales promelas</i> 96 h		EC50 = 0.011 mg/L 48 h
Terphenyls	EC50 = 0.02 mg/L 96 h	LC50> 0.11 mg/L <i>Lepomis macrochirus</i> 96 h LC50> 0.11 mg/L <i>Oncorhynchus mykiss</i> 96 h LC50> 0.11 mg/L <i>Pimephales promelas</i> 96 h		EC50 > 0.11 mg/L 48 h

**Persistence and Degradability** No data is available on the product itself.

Chemical Name	Log Pow
Manganese dioxide	< 0 20 °C

### 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
Hydrogenated terphenyls - 61788-32-7				
Terphenyls - 26140-60-3				
Manganese dioxide - 1313-13-9				

### 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** Does not Comply  
**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 %
Manganese dioxide	1313-13-9	45 - 50	1.0

##### **SARA 311/312 Hazard Categories**

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

##### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act.

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Manganese dioxide	1313-13-9	45 - 50	Present (includes any unique chemical substance that contains Manganese as part of its infrastructure)			

### CERCLA

### U.S. State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Hydrogenated terphenyls	X		X		
Terphenyls	X	X	X		
Manganese dioxide		X	X	X	

### International Regulations

#### Mexico - Grade

Slight risk, Grade 1

Chemical Name	Carcinogen Status	Exposure Limits
Hydrogenated terphenyls		Mexico: TWA= 0.5 ppm Mexico: TWA= 5 mg/m <sup>3</sup>
Terphenyls		Mexico: Ceiling= 0.5 ppm
Manganese dioxide		Mexico: TWA= 0.2 mg/m <sup>3</sup>

### 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.

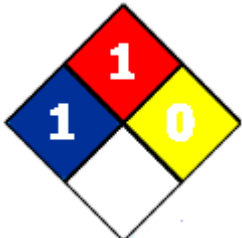

#### WHMIS Hazard Class

D2B Toxic materials



Chemical Name	NPRI
Manganese dioxide	X

## 16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td data-bbox="511 310 716 352">Health Hazard</td> <td data-bbox="716 310 792 352">1</td> </tr> <tr> <td data-bbox="511 352 716 394">Fire Hazard</td> <td data-bbox="716 352 792 394">1</td> </tr> <tr> <td data-bbox="511 394 716 443">Reactivity</td> <td data-bbox="716 394 792 443">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**

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**