

Date Prepared: 11/10/08
Supersedes: 2/7/08
Product Name: Duraguard 401 Part C, Catalyst

ChemMasters

Material Safety Data Sheet

1. Chemical Product and Company Information

Product Name: Duraguard 401 Part C, Catalyst

Product Description: Duraguard 401 Part C, Catalyst for Duraguard 401, Methacrylate Penetrating Sealer.

ChemMasters
300 Edwards Street
Madison, Ohio 44057
440-428-2105

In Case of Emergency Contact:
CHEMTREC 800/424-9300

2. Composition / Information on Ingredients

Hazardous Components	CAS #	Exposure Limits			% by Wt
		OSHA	ACGIH	OTHER	
Cumyl Hydroperoxide	80-15-9	50 ppm (skin)	50 ppm (skin)	--	90
2-Phenyl-2-Propanol (Cumyl Alcohol)	617-94-7	NE	NE	--	6-7
Cumene	98-82-8	50 ppm (skin)	50 ppm (skin)	--	2-3
Acetophenone	98-86-2	NE	NE	--	1-2

3. Hazards Identification

DANGER!

ORGANIC PEROXIDE

HEAT OR CONTAMINATION MAY CAUSE HAZARDOUS DECOMPOSITION.

Causes eye and skin burns.

Causes respiratory tract irritation

Harmful if inhaled, swallowed or absorbed through skin.

May cause headache, dizziness and nausea.

Combustible Liquid and vapors, Flash Point 175°F.

Potential Health Hazards - Acute

Eye: Direct contact causes severe irritation or burns.

Skin: Direct contact may cause severe skin irritation or burns.

Inhalation: Causes irritation to respiratory tract.

Ingestion: Can cause burns to mouth, esophagus & gastrointestinal tract. May cause stomach cramps, vomiting & diarrhea.

Potential Health Effects - Chronic:

Chronic inhalation effects of this product is not known. In repeat exposure studies in rats with 41.5% cumyl hydroperoxide in cumene, lung toxicity and central nervous system effects were seen in concentrations of 31.5 and 50 ppm; kidney toxicity was also seen at 50 ppm. Respiratory tract irritation was the only effect at 16 ppm. The reproductive toxicity of this product is not known. The neurotoxic effects of this product are not known.

Carcinogenicity:

NTP
NO

IARC Monographs
NO

OSHA Regulated
NO

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4. First Aid Measures

Eye: Immediately flush with plenty of clean water for at least 15 minutes. Seek medical attention.
Skin: Remove contaminated clothing. Clean affected area(s) thoroughly with soap and water. Seek medical attention.
Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Ingestion: Seek medical attention! Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.

SEEK MEDICAL ATTENTION IF SYMPTOMS PERSIST.

5. Fire Fighting Measures

Flash Point (method used): 175°F (Setaflash CC) (79° C)
Flammable Limits (% volume in air): Lower = ND Upper = ND
Auto Ignition Temperature: Not data available
Extinguishing Media: Extinguish with water fog, dry chemical, CO2 or foam.
Hazard Combustion Products: Hazardous conditions will result through contamination with incompatibles or exposure to excessive temperatures. Product can decompose with force if confined during exposure to fire.
Fire Fighting Instructions: Do not enter confined fire space without full bunker gear including a positive pressure, NIOSH approved, self-contained breathing apparatus. Cool containers exposed to fire with water.

6. Accidental Release Measures

Spill: Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Avoid personal contact. If spill is indoors, ventilate area. Keep out of drains, sewers or waterways. Take up with absorbent material, place into non-leak containers and seal tightly for proper disposal.

7. Handling and Storage

Handling: Avoid inhalation of vapors and personal contact with product. Static electricity may create a fire hazard. Always ground equipment and transfer containers. Keep liquid away from heat, sparks and flame. Use with adequate ventilation. "Empty" containers can contain explosive vapors. Keep away from sources of ignition and excessive heat.
Storage: Store containers tightly closed with adequate ventilation in a cool, dry area.

8. Exposure Controls / Personal Protection

Exposure Controls: Mechanical and local exhaust should be used for indoor use.
Personal Protection: NIOSH approved organic solvent respirator, impervious gloves, chemical splash goggles and protective clothing to minimize skin contact.

9. Physical and Chemical Properties

Appearance: Clear yellow liquid
Odor: Sharp Aromatic
Boiling Point: ND
Melting Point: -4.99° F
Vapor Pressure (mm/Hg): <1
Vapor Density (Air = 1): 4.1
Solubility in Water: Slight
Specific Gravity (H2O = 1): 1.06
Evaporation Rate (n-Butyl Acetate = 1): <1

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10. Stability and Reactivity

Chemical Stability: Stable at temperatures up to 149 °F (65° C)

Conditions to Avoid: Heat, flame, contaminants.

Incompatibility (materials to avoid): Alkalies, Oxidizers, Transition metal salts, & Reducing Agents.

Hazardous Decomposition or By-products: Carbon Monoxide and Carbon Dioxide.

Hazardous Polymerization: Will not occur under normal conditions.

11. Toxicological Information

<u>Components</u>	<u>Oral LD50 (rat)</u>	<u>Dermal LD50 (rabbit)</u>	<u>Inhalation LC50 (rat)</u>
Cumyl Hydroperoxide	382 mg/kg	200 mg/kg	220 ppm (4 hours)
Cumyl Alcohol	1300 mg/kg	4,300 mg/kg	ND
Cumene	1400 mg/kg	ND	CNSD*
Acetophenone	900-3200 mg/kg	15,900 mg/kg	CNSD*

* Shown to cause "Central Nervous System Depression".

12. Ecological Information

The ecological toxicity of this product is not known.

The LC50 in fathead minnow for cumene is 6.32 mg/l (moderately toxic).

13. Disposal Considerations

Dispose of in accordance with all federal, state, and local regulations. If uncertain of local regulations, contact the proper environmental authorities for disposal.

Under RCRA, 40 CFR 261.33, this material is hazardous waste number D003.

14. Transportation Information

For U S National, International and Air Shipments:

Shipping Description: UN3109, Organic Peroxide Type F, liquid (Cumyl Hydroperoxide, 90%), 5.2 (8), II

Emergency Response Guide Number: 145

Hazard Class: Primary Label: Organic Peroxide; Secondary Risk Label: Corrosive

15. Regulatory Information

OSHA: This material is hazardous by definition of Hazardous Communication Standard (29 CFR 1910.1200)

CERCLA Reportable Quantity: 11 lbs. for this product because of Cumyl Hydroperoxide component.

SARA Title III:

Section 311/312 hazard categories: acute health, fire, reactive

Section 313 reportable ingredients:

Components	CAS #	Maximum %
Cumyl Hydroperoxide	80-15-9	90%
Cumene	98-82-8	3%

16. Other Information

MSDS Status: Revised 11/10/08

Industrial Abbreviation Legend on page 4 of this MSDS.

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Industrial Abbreviation Legend

ACGIH	American Conference of Governmental Industrial Hygienists	mg / m ³	milligrams per cubic meter
CAA	Clean Air Act (EPA)	NIOSH	National Institute for Occupational Safety and Health
CERCLA	Comprehensive Environmental Response, Compensation & Liability Act of 1980 (Superfund) (EPA)	NTP	National Toxicology Program
CNS	Central Nervous System	OSHA	Occupational Safety and Health Administration
CWA	Clean Water Act (EPA)	PEL	Permissible Exposure Limit
DOT	Department of Transportation	ppm	parts per million
EPA	Environmental Protection Agency	RCRA	Resource Conservation and Recovery Act (EPA)
g/kg	grams per kilogram	SARA	EPA's Superfund Amendment and Reauthorization Act (EPA)
IARC	Internal Agency for Research on Cancer	STEL	Short-Term Exposure Limit, ACGIH terminology
LC50	Lethal Concentration in which 50% of the test animals are expected to die	TLV	Threshold Limit Value
LD50	Lethal Dose in which 50% of the test animals are expected to die	TWA	Time-Weighted Average

**THIS PRODUCT IS FORMULATED AND LABELED FOR
 INDUSTRIAL AND COMMERCIAL APPLICATION ONLY**

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