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Printed 2/16/2001.

Product Name HD5028

CATALYST28

**Enthone**  
 Enthone Inc.  
 P.O. Box 1900  
 New Haven, CT 06508  
 (203) 934-8611  
 (203) 799-8179 Fax

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 SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION  
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COMPANY IDENTIFICATION

ALPHA PC FAB/ENTHONE  
 P.O. BOX 1900  
 NEW HAVEN, CT 06508  
 USA  
 Phone: 1-203-934-8611  
 Fax: 1-203-799-8179

EMERGENCY TELEPHONE NUMBERS  
 Transportation:  
 Chemtrec, USA, 1-800-424-9300  
 International: 1-703-527-3887  
 After Hours Non Transportation  
 Emergency: 1-800-399-6503

PRODUCT CODE  
 HD5028

PRODUCT DESCRIPTION

Amine solution.

GENERAL USE

Part B Catalyst

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 SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS  
 -----

SUBSTANCE DESCRIPTION	PERCENT	CAS#
246Tri(dimeth amino meth)Phen	30.000- 60.000	90-72-2
(Dimethyl Amino) Methylphenol	1.000- 5.000	25338-55-0
Ethylene Glycol Monobutyl Ethe	40.000- 70.000	111-76-2

DISCLOSURE:

This product is hazardous under the criteria of the USA OSHA Hazard Communication Standard 29 CFR 1910.1200.  
 Any ingredient claimed as a trade secret will be disclosed in accordance with 29 CFR 1910.1200 (i).  
 See Section 8 of this MSDS for any noted exposure limits for these compounds.

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 SECTION 3. HAZARDS IDENTIFICATION  
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EMERGENCY OVERVIEW

\*\*\*\*\*  
 Warning!  
 Causes eye irritation.  
 Harmful if swallowed.  
 May be harmful if inhaled.  
 May cause stomach irritation.  
 Combustible liquid and vapor.  
 Amber liquid. Amine odor.  
 \*\*\*\*\*

EYE CONTACT

Severely irritating. May cause burns, redness, tearing, pain or difficulty seeing.

SKIN CONTACT

Moderately irritating. Prolonged contact may cause burns. Repeated exposure may cause allergic skin reactions. Once an allergy develops, even an exposure to a very small amount can trigger an allergic reaction.

INHALATION

Moderately irritating to eyes, nose, throat and lungs. Repeated exposure may cause an allergic reaction of the respiratory system. Once an allergy develops, even an exposure to a very small amount can trigger an allergic reaction.

INGESTION

Severely irritating to the mouth, stomach, and digestive tract. May cause vomiting. May burn mouth, throat and stomach.

PRIMARY ROUTE OF EXPOSURE

Skin contact, skin absorption, eye, inhalation, ingestion.

CARCINOGENICITY

IARC - Not Listed  
 OSHA - Not Listed  
 NTP - Not Listed

TARGET ORGANS

Ingredients may be toxic to the following organs:  
 Skin, eyes, lungs, mucous membranes.

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 SECTION 4. FIRST AID MEASURES  
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EYE CONTACT

Flush eyes with flowing water for 10 to 15 minutes. Blink eyes frequently. Repeat flushing if burning or pain persists. Get immediate medical attention.

SKIN CONTACT

Rinse immediately with plenty of water. Remove contaminated clothing. If problems persist get immediate medical attention.

Distributed by:

**NAZDAR**

8501 Hedge Lane Terrace  
 Shawnee, KS 66227  
 Phone: 800-677-4657  
 www.nazdar.com

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Do not apply lotions or creams without the advice of a physician or poison center.

**INHALATION**

Remove victim to fresh air. If breathing is difficult get immediate medical attention. If not breathing give artificial respiration and call for emergency medical assistance.

**INGESTION**

Do NOT induce vomiting. Rinse mouth with water and allow patient to drink as much water as desired. Contact a poison center or get prompt medical attention if symptoms of irritation persist.

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 SECTION 5. FIRE FIGHTING MEASURES  
 -----

**FLASH POINT**

155.00 F 68.33 C

**FLASH METHOD**

S.C.C.

**EXTINGUISHING METHOD**

Use carbon dioxide, foam or dry chemical.

**FIRE FIGHTING PROCEDURES**

Wear self contained breathing apparatus (pressure-demand MSA/NIOSH or equivalent) and full fire fighting protective gear.

**FIRE AND EXPLOSION HAZARDS**

Heat in excess of flashpoint, open flame, or storage with incompatible materials as listed in Stability And Reactivity.

**HAZARDOUS PRODUCTS/COMBUSTION**

Not established.

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 SECTION 6. ACCIDENTAL RELEASE MEASURES  
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**CLEAN-UP**

Remove ignition sources. Provide adequate ventilation and/or personal protective equipment (see Section 8). Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Prevent runoff to storm sewers, ditches and other pathways to soil and waterways.

-----  
 SECTION 7. HANDLING AND STORAGE  
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**HANDLING**

Avoid breathing fumes. Do not splash or spill.

**STORAGE**

Do not store with incompatible materials. Store containers upright. Keep away from heat and flame.

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 SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION  
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**ENGINEERING CONTROLS**

Work should be done in an adequately ventilated area (i.e., ventilation sufficient to maintain concentrations below one half of the PEL and other relevant standards). Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination.

**EYE PROTECTION**

Wear appropriate goggles, face shields or other personal protective equipment (PPE) which will be effective under the circumstances if the possibility of contact exists. A program meeting 29CFR1910.133 requirements must be followed when PPE is necessary.

**SKIN PROTECTION**

Impermeable gloves and protective clothing as necessary to prevent skin contact.

**RESPIRATORY PROTECTION**

Appropriate respirators must be used, and a program that follows 29 CFR1910.134 must be followed, when workplace hazards warrant the use of a respirator. NIOSH-approved respirators must be used when respiratory protection is necessary.

**OTHER PROTECTION**

A safety shower and eye wash station should be within reasonable distance of the work area.

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 EXPOSURE LIMITS/REGULATORY INFORMATION  
 -----

SUBSTANCE DESCRIPTION	EXPOSURE LIMITS/REGULATORY INFORMATION			
	REG. AGENCY	FELTL	STEL	CEIL
246Tri(dimeth amino meth)Phen	OSHA	N/D	N/D	N/D
	ACGIH	N/D	N/D	N/D
(Dimethyl Amino) Methylphenol	OSHA	N/D	N/D	N/D
	ACGIH	N/D	N/D	N/D
Ethylene Glycol Monobutyl Ether				

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OSHA	25.0000	N/D	N/D
ACGIH	25.0000	75.0000	N/D

**LEGEND:**

**EXPOSURE LIMIT DESCRIPTIONS**

CEIL Ceiling Exposure Limit  
 PELTL PEL/TLV  
 STEL Short Term Exposure Limit

N/D = Not Determined

**UNIT OF MEASURE**

PPM Parts Per Million (Liquid)  
 MG/M3 Milligrams Per Cubic Meter (Solid)

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**  
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**APPEARANCE & ODOR**

Amber liquid with amine odor.

**SPECIFIC GRAVITY**

.93

**pH FACTOR**

N/D

**BOILING POINT**

N/D F N/D C

**VOLATILE ORGANIC COMPOUNDS**

Before use this product must be mixed with another Dexter product.  
 To obtain VOC data on mixture call 1-626-968-6511 or fax  
 1-626-336-0526.

-----  
**SECTION 10. STABILITY AND REACTIVITY**  
 -----

**INCOMPATIBILITIES**

Oxidizing agents.

**DECOMPOSITION**

None

**POLYMERIZATION**

None.

**CONDITIONS TO AVOID**

Extreme temperatures.

**STABILITY**

Stable.

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**SECTION 11. TOXICOLOGICAL INFORMATION**  
 -----

**EYE EFFECTS**

Conjunctival irritation and possible corneal burns due to the alkaline amines present.

**DERMAL EFFECTS**

Caustic burns possible depending on contact time.

Although no specific testing may have been on the amine(s) in this product, all aliphatic and alicyclic amines should be considered as potential skin sensitizers.

**INHALATION EFFECTS**

Although no specific testing may have been done on the amine(s) contained in this product, all aliphatic and alicyclic amines should be considered as potential pulmonary sensitizers.

Several rat studies demonstrated no effect for the glycol ether(s) contained in this products on the testes of rats and nonsignificant reversible effects in one study. Studies in pregnant rats showed contradictory embryo and feto toxic effects at 100 - 200 ppm. All studies showed that in doses not toxic to the mother, there are no feto-embryo or teratogenic effects.

**INGESTION EFFECTS**

Numbness of the nerve endings of the tongue and other parts of the mouth may make mask symptoms of a significant burn. Absorption of significant amounts may result in unconsciousness, and rupture of red blood cells. Ingestions of more than 2 ounces may be fatal.

**ACUTE TOXICITY DATA**

Enthone is not aware of any toxicity data on the specific mixture of chemical components contained in this product. Data on the individual chemical components of this mixture is available in the literature or can be obtained by contacting Dexter's Health, Safety and Environmental department at the address and telephone number listed in Section 1.

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**SECTION 12. ECOLOGICAL INFORMATION**  
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**ECOTOXICOLOGICAL INFORMATION**

Enthone has not conducted specific studies on the eco toxicity or environmental fate of this product. Commonly available data on certain ingredients indicate that acute or chronic effects could result from uncontrolled releases to soil, ground water,

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storm waters, or air. Appropriate measures should be taken to prevent uncontrolled releases. Prompt containment and clean-up should be performed if releases do occur (see Section 6).

-----  
 SECTION 13. DISPOSAL CONSIDERATIONS  
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WASTE DISPOSAL

Legal disposition of wastes is the responsibility of the owner/generator of the waste. Applicable Federal, state and/or local regulations must be followed during treatment, storage, or disposal of waste containing this product.

It is recommended that the following priority hierarchy be used when selecting a disposal method: (1) Reuse or reintroduction into the process. (2) Reclamation, regeneration or recycling. (3) Burning for energy recovery, or incineration. (4) Treatment.

-----  
 SECTION 14. TRANSPORT INFORMATION  
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DOT/IATA PROPER SHIPPING NAME

Corrosive liquid, basic, organic, n.o.s.  
 (Primary Aliphatic Amine)

DOT/IATA HAZARD CLASS

8  
 DOT/IATA UN OR NA NUMBER  
 UN3267

DOT/IATA PACKING GROUP

III  
 DOT/IATA LABEL  
 Corrosive

DOT/IATA PLACARD  
 Corrosive  
 -----

SECTION 15. REGULATORY INFORMATION  
 -----

Component 246Tri(dimeth amino is subject to the following

Environmental List

311/312 SARA Phy/Hea Haz (40CFR370.40)

Component (Dimethyl Amino) Met is subject to the following

Environmental List

311/312 SARA Phy/Hea Haz (40CFR370.40)

Component Ethylene Glycol Mono is subject to the following

Environmental List

311/312 SARA Phy/Hea Haz (40CFR370.40)

313 SARA toxic chem (40CFR372.65)

CALIFORNIA PROPOSITION 65

This product contains a chemical(s) known to the State of California to cause cancer.

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 SECTION 16. OTHER INFORMATION  
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HAZARDOUS MATERIALS ID. SYSTEM

HMIS		HAZARD RATING		
Health	3	Least	0	Slight 1
Fire	2	Moderate	2	High 3
Reactivity	1	Extreme	4	

WHMIS HAZARD CLASS

B3, D2B, E  
 REVISION NO.

003  
 REVISION DATE  
 9/20/2000

REVISION SECTION / REASON

Section 8 / ENGINEERING CONTROLS, EYE, SKIN, RESPIRATORY

PROTECTION changes.

CREATED BY  
 HSE & R&D, CALIF.

APPROVED BY  
 HSE - California

LIMITATIONS AND DISCLAIMER:

This MSDS relates only to the specific material identified in Section 2. In compiling this MSDS, Enthone has relied in good faith on information provided to Enthone by suppliers of the components of this material, and, in some cases, provided by independent data resources. Enthone has not independently verified

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such information, and, in addition, users should be aware that all materials may present unknown hazards. Use of this material in combination with other materials and/or in specific processes may render information set forth in this MSDS inaccurate or otherwise invalid.

NO WARRANTY, EXPRESS OR IMPLIED, IS MADE REGARDING THE INFORMATION FURNISHED ON THIS MSDS.

**KEY TO ABBREVIATIONS:**

EQ = Equal	LT = Less Than
AP = Approximately	GT = Greater Than
N/D = Not Determined	TR = Trace
ND = No Data Available	> = Greater Than
HSE = Health, Safety and Environmental	< = Less Than

