

DEXTER ELECTRONIC MATERIALS -- CATALYST 28/B-13, HD5028 -- 7510-01-341-1006

===== Product Identification =====

Product ID:CATALYST 28/B-13, HD5028

MSDS Date:11/05/1996

FSC:7510

NIIN:01-341-1006

Status Code:A

Kit Part:Y

MSDS Number: CJNBY

=== Responsible Party ===

Company Name:DEXTER ELECTRONIC MATERIALS

Address:15051 EAST DON JULIAN ROAD

City:INDUSTRY

State:CA

ZIP:91746

Country:US

Info Phone Num:

626-968-6511

Emergency Phone Num:626-916-9107

Resp. Party Other MSDS Num.:HD5028

Chemtec Ind/Phone:(800)424-9300

CAGE:12405

=== Contractor Identification ===

Company Name:DEXTER CORP DEXTER ELECTRONIC MATERIALS DIV

Address:15051 E DON JULIAN RD

Box:City:LA PUENTE

State:CA

ZIP:91746

Country:US

Phone:818-968-6511

CAGE:12405

===== Composition/Information on Ingredients =====

Ingred Name:2,4,6-TRIS.(.(DIMETHYLAMINO)METHYL.).PHENOL; (2,4,6TRI  
(DIMETH AMINO METH) PHEN)

CAS:90-

72-2  
RTECS #:SN3500000  
Minumum % Wt:30.  
Maxumum % Wt:60.  
Other REC Limits:N/K  
OSHA PEL:N/K  
OSHA STEL:N/K  
ACGIH TLV:N/K  
ACGIH STEL:N/K

Ingred Name:.(. (DIMETHYLAMINO)METHYL.).PHENOL; ((DIMETHYL AMINO)  
METHYLPHENOL)  
CAS:25338-55-0  
Minumum % Wt:1.  
Maxumum % Wt:8.  
Other REC Limits:N/K  
OSHA PEL:N/K  
OSHA STEL:N/K  
ACGIH TLV:N/K  
ACGIH STEL:N/K

Ingred Name:ETHYLENE GLYCOL MONOBUTYL ETHER; (ETHYLENE GLYCOL MONOBUTYL  
ETHE)  
CAS:111-76-2  
RTECS #:KJ8575000  
Minumum % Wt:40.  
Maxumum % Wt:70.  
Other REC Limits:N/K  
OSHA PEL:240 MG/M3;50 PPM  
OSHA STEL:N/K  
ACGIH TLV:121 MG/M3;25 PPM  
ACGIH STEL:N/K

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===== Hazards Identification =====  
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EYES: SEVERELY IRRITATING. MAY CAUSE  
BURNS, REDNESS, TEARING, PAIN OR DIFFICULTY SEEING. SKIN:  
MODERATELY IRRITATING. PROLONGED CONTACT MAY CAUSE BURNS. REPEATED  
EXPOSU

RE 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 RESPIRATORY SYSTEM. ONCE AN ALLERGY DEVELOPS, EVEN AN EXPOSURE TO A VERY SMALL AMOUNT CAN TRIGGER AN ALLERGIC REACTION. INGESTION: SEVERELY IRRITATING TO MOUTH, STOMACH AND DIGESTIVE TRACT.  
(EFFECTS OF OVEREXPOSURE

)  
Explanation of Carcinogenicity: NOT LISTED.

Effects of Overexposure: HEALTH HAZARDS: MAY CAUSE VOMITING. MAY BURN MOUTH, THROAT AND STOMACH. TARGET ORGANS: INGREDIENTS MAY BE TOXIC TO THE FOLLOWING ORGANS: SKIN, EYES, LUNGS, MUCOUS MEMBRANES. CHRONIC: ANIMAL STUDIES CLEARLY DEMONSTRATED DOSE-RELATED ADVERSE EFFECTS ON THE CENTRAL NERVOUS SYSTEM, HEMATOPOIETIC TISSUE, BLOOD, KIDNEYS, AND LIVER, ASSOCIATED WITH THE ADMINISTRATION OF 2-BUTOXYETHANOL (EXTRACTED FROM DHS (NIOSH) PUBLICATION #90-118)

===== First Aid Measures =====

First Aid: EYES: FLUSH W/ FLOWING WATER FOR AT LEAST 15 MINS. BLINK EYES FREQUENTLY. REPEAT FLUSHING IF BURNING/PAIN PERSISTS. GET IMMEDIATE MEDICAL ATTENTION. SKIN: RINSE SKIN IMMEDIATELY W/ PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING. IF PROBLEMS PERSIST GET IMMEDIATE MEDICAL ATTENTION. DO NOT APPLY LOTIONS/CREAMS W/OUT ADVICE OF MEDICAL/POISON CONTROL. INHALATION: REMOVE VICTIM TO FRESH AIR. IF BREATHING IS DIFFICULT GET IMMEDIATE MEDICAL ATTENTION.

IF NOT BREATHING GIVE

ARTIFICIAL RESPIRATION & CALL FOR EMERGENCY MEDICAL ASSISTANCE. INGESTION: DO NOT INDUCE VOMITING. RINSE MOUTH W/ WATER & ALLOW PATIENT TO DRINK AS MUCH WATER AS DESIRED. CONTACT POISON CONTROL/GET PROMPT MEDICAL ATTENTION IF SYMPTOMS OF IRRITATION PERSIST.

===== Fire Fighting Measures =====

Flash Point Method: SCC

Flash Point: =68.3C, 155.F

Extinguishing Media: USE CARBON DIOXIDE, FOAM OR DRY CHEMICAL.

Fire Fighting Procedures: WEAR NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT

ENT .

Unusual Fire/Explosion Hazard:HEAT IN EXCESS OF FLASHPOINT, OPEN FLAME,  
OR STORAGE WITH INCOMPATIBLE MATERIALS AS LISTED IN STABILITY AND  
REACTIVITY. HAZARDOUS PRODUCTS/COMBUSTION: NOT ESTABLISHED.

===== Accidental Release Measures =====

Spill Release Procedures:REMOVE IGNITION SOURCES. PROVIDE ADEQUATE  
VENTILATION AND/OR PERSONAL PROTECTIVE EQUIPMENT (SEE CONTROL  
MEASURES SECTION). 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.

===== Handling and Storage =====

Handling and Storage Precautions:AVOID BREATHING FUMES. DO NOT SPLASH  
OR SPILL. DO NOT STORE WITH INCOMPATIBLE MATERIALS. STORE  
CONTAINERS UPRIGHT. KEEP AWAY FROM HEAT AND FLAME.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:NO RESPIRATOR IS  
REQUIRED IF INGREDIENT EXPOSURE  
LIMITS ARE NOT EXCEEDED. A NIOSH APPROVED (29 CFR 1910.134 USA  
DEPT. OF LABOR), AIR PURIFYING, HALF-FACE RESPIRATOR WITH THE  
APPROPRIATE CARTRIDGE SHOULD BE USED IF EXPOSURE LIMITS ARE  
EXCEEDED.

Ventilation:USE LOCAL EXHAUST VENTILATION.

Protective Gloves:WEAR CHEMICAL RESISTANT RUBBER GLOVES.

Eye Protection:ANSI APPROVED CHEMICAL WORKERS GOGGLES .

Other Protective Equipment:EYEWASH AND DELUGE SHOWER MEETING ANSI  
DESIGN CRITERIA . WEAR CHEMICAL  
RESISTANT RUBBER APRON.

Supplemental Safety and Health

WASTE DISPOSAL METHOD: (2) RECLAMATION, REGENERATION/RECYCLING; (3)  
BURNING FOR ENERGY RECOVERY/INCINERATION; (4) TREATMENT. VOLATILE  
ORGANIC COMPOUND: 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.

===== Physical/Chemical Properties =====

Spec Gravity:0.93

Appearance and Odor:AMBER LIQUID WITH AMINE ODOR

DOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

OXIDIZING AGENTS.

Stability Condition to Avoid: EXTREME TEMPERATURES.

Hazardous Decomposition Products: NONE.

===== Toxicological Information =====

Toxicological Information: EYES: CONJ IRRIT & POSS CORNEAL BURNS DUE TO ALKALINE AMINES PRESENT. SKIN: CAUSTIC BURNS POSS DEPENDING ON CONT TIME. ALTHOUGH NO SPECIFIC TESTING MAY HAVE BEEN DONE ON A MINE(S)

IN THIS PROD, ALL ALIPHATIC & ALICYCLIC AMINES SHOULD BE CONSIDERED AS POTENTIAL SKIN SENSITIZERS. INHAL: ALTHOUGH NO SPECIFIC TESTING MAY HAVE BEEN DONE ON AMINE(S) CONTAINED IN THIS PROD, ALL ALIPHATIC & ALICYCLIC AMINE S SHOULD BE CONSIDERED AS POTENTIAL PULM SENSITIZERS. SEVERAL RAT STUDIES DEMONSTRATED NO EFT FOR GLYCOL ETHER(S) CONTAINED IN THIS PROD ON TESTES OF RATS & NON-SIGNIFICANT REVERSIBLE EFTS ON ONE STUD Y. (OTHER INFO)

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Ecological Information =====

Ecological: ECOTOXICOLOGICAL INFORMATION: DEXTER 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, 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.

===== Disposal Considerations =====

Waste Disposal Methods: LEGAL DISPOSITION OF WASTES IS THE RESPONSIBILITY OF THE OWNER/GENERATOR OF WASTE. APPLIC FED, STATE &/OR LOC REGS MUST BE FOLLOWED DURING TREATMENT, STOR/DISP OF WASTE CONTAINING THIS PROD. IT IS REC THAT THE FOLLOWING PRIORITY HIERARCHY BE USED WHEN SELECTING DISP METH: (1) REUSE/REINTRODUCTION INTO PROCESS; (SUP DAT)

===== MSDS Trans

port Information =====

Transport Information:DOT/IATA PROPER SHIPPING NAME: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (PRIMARY ALIPHATIC AMINE). DOT/IATA HAZARD CLASS: A. DOT/IATA UN OR NA NUMBER: UN3267. DOT/IATA PACKING GROUP: III. DOT/IATA LAB EL: CORROSIVE. DOT/IATA PLACARD: CORROSIVE.

===== Regulatory Information =====

SARA Title III Information:COMPONENT 2,4,6TRI(DIMETH AMINO IS SUBJECT TO THE FOLLOWING: ENVIRONMENTAL LIST

311/312 SARA PHY/HEA HAZ (40

CFR 370.40). COMPONENT (DIMETHYL AMINO) IS SUBJECT TO THE FOLLOWING: ENVIRONMENTAL LIST 311 /312 SARA PHY/HEA HAZ (40 CFR 370.40). COMPONENT ETHYLENE GLYCOL MONO IS SUBJECT TO THE FOLLOWING: ENVIRONMENTAL LIST 311/312 SARA PHY/HEA HAZ (40 CFR 370.40); 313 SARA TOXIC CHEM (40 CFR 372.65).

Federal Regulatory Information:WHMIS HAZARD CLASS: B3, D2B, B. THIS PRODUCT IS HAZARDOUS UNDER THE CRITERIA OF THE USA OSHA HAZARD COMMUNICATION STANDARD

29 CFR 1910.1200.

State Regulatory Information:OTHER INFO: INGEST: NUMBNESS OF NERVE ENDINGS OF TONGUE & OTHER PARTS OF MOUTH MAY MAKE WEAK SYMPS OF SIGNIFICANT BURN. ABSORPTION OF SIGNIFICANT AMTS MAY RSLT IN UNCON, & RUPTURE OF RED BLOOD CELLS. INGEST OF MORE THAN 2 OUNCES MAY BE FATAL. ACUTE TOX DATA: DEXTER IS NOT AWARE OF ANY TOX DATA ON SPECIFIC MIXT OF CHEM COMPONENTS CONTAINED IN THIS PROD. DATA ON INDIVIDUAL CHEM COMPONENTS OF THIS MI XT IS AVAIL IN LITERATURE/C

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BE OBTAINED BY CONTACTING DEXTER'S HLTH, SFTY & ENVIRON DEPARTMENT AS THE ADDRESS & TELEPHONE NUMBER LISTED ON FIRST PAGE.

===== Other Information =====

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