

HENTZEN COATINGS INC -- ALIPHATIC POLYISOYANATE-COMPONENT A -- 8010-01-465-9642

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

Product ID:ALIPHATIC POLYISOYANATE-COMPONENT A

MSDS Date:06/16/2000

FSC:8010

NIIN:01-465-9642

Status Code:A

MSDS Number: CLFZD

=== Responsible Party ===

Company Name:HENTZEN COATINGS INC

Address:6937 WEST MILL ROAD

Box:18749

City:MILWAUKEE

State:WI

ZIP:53218

Country:US

Info Phone Num:

414-353-4200

Emergency Phone Num:800-424-9300

Preparer's Name:ERNEST CARTER

Chemtrec Ind/Phone:(800)424-9300

CAGE:09225

=== Contractor Identification ===

Company Name:HENTZEN COATINGS INC

Address:6937 WEST MILL ROAD

Box:18749

City:MILWAUKEE

State:WI

ZIP:53218

Country:US

Phone:414-353-4200

CAGE:09225

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

Ingred Name:CARBON BLACK

CAS:1333-86-4

RTECS #:FF5800000

= Wt:.2

OSHA PEL:3.5 MG/M3

ACGIH TLV:3.5 MG/M3

Ingred Name:HOMOPOLYMER

OF HEXANETHYLENE DIISOCYANATE

CAS:28182-81-2

Code:F

RTECS #:NQ9170000

Minumum % Wt:30.

Maxumum % Wt:40.

Ingred Name:CRYSTALLINE SILICA

CAS:14808-60-7

Code:F

RTECS #:VV7330000

Minumum % Wt:15.

Maxumum % Wt:20.

OSHA PEL:SEE TABLE Z-3

ACGIH TLV:0.1 MG/M3

Ingred Name:TITANIUM DIOXIDE

CAS:13463-67-7

RTECS #:XR2275000

Minumum % Wt:5.

Maxumum % Wt:10.

OSHA PEL:15 MG/M3

ACGIH TLV:10 MG/M3

Ingred Name:HEXAMETHYLENE DIISOCYANATE MONOMER

CAS:822-06-0

Code:F

RTECS #:MO1740000

< Wt:.04

OSHA PEL:0.005

PPM

ACGIH TLV:0.034 MG/M3;.005 PPM

Ingred Name:METHYL AMYL KETONE

CAS:110-43-0

RTECS #:MJ5075000

Minumum % Wt:20.

Maxumum % Wt:30.

OSHA PEL:465 MG/M3;100 PPM

ACGIH TLV:233 MG/M3;50 PPM

=====
===== Hazards Identification =====

Health Hazards Acute and Chronic:EYE CONTACT: VAPORS CAN BE IRRITATING CAUSING TEARING, REDDENING AND SWELLING ACCOMPANIED BY A STINGING AND/OR A FEELING LIK THAT OF FINE DUST IN THE EYES. SKIN CONTACT: SYMPTOMS OF SKIN IRRITATION

MAY BE REDDENING, RASH, SWELLING, SCALING OR BLISTERING. INHALATION: CAN CAUSE IRRITATION OF THE RESPIRATORY TRACT OR ACUTE NERVOUS SYSTEM DEPRESSION CHARACTERIZED BY THE FOLLOWING PROGRESSIVE STEPS: HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION OR UNCONSCIOUSNESS. CAN RESULT IN IRRITATION AND POSSIBLE CORROSIVE ACTION IN THE MOUTH, STOMACH TISSUE AND DIGESTIVE TRACT.

Effects of Overexposure: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE

TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE, LIVER AND KIDNEY DAMAGE. THESE SYMPTOMS COULD BE IMMEDIATE OR DELAYED UP TO SEVERAL HOURS AFTER EXPOSURE AND COULD INCLUDE CHEST TIGHTNESS, WHEEZING, COUGH OR ASTHMATIC ATTACK. CHRONIC OVEREXPOSURE TO ISOCYANATES HAS ALSO BEEN REPORTED TO CAUSE LUNG DAMAGE, INCLUDING DECREASE IN LUNG FUNCTION, WHICH MAY BE PERMANENT.

Medical Cond Aggravated by Exposure: ASTHMA AND OTHER RESPIRATORY AILMENTS; SKIN ALLERGIES AND ECZEMA; CHEMICAL SENSITIZATION.

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

First Aid: EYE CONTACT: FLUSH IMMEDIATELY WITH LOW PRESSURE LUKEWARM RUNNING WATER FOR AT LEAST 15 MINUTES WHILE LIFTING EYELIDS. TAKE TO A PHYSICIAN. SKIN CONTACT: WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. GET MEDICAL ATTENTION. INHALATION: MOVE TO AN AREA FREE FROM RISK OF FURTHER EXPOSURE. OBTAIN MEDICAL ATTENTION. INGESTION: CALL A PHYSICIAN IMMEDIATELY.

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

Flash Point Method: TCC
Flash Point: =38.9C, 102.F
Autoignition Temp: Autoignition Temp Text: NONE
Lower Limits: 1.1
Upper Limits: NONE
Extinguishing Media: CARBON DIOXIDE, DRY CHEMICAL, FOAM OR ALCOHOL FOAM.
Fire Fighting Procedures: FULL PROTECTIVE EQUIPMENT INCLUDING SELF CONTAINED BREATHING APPARATUS SHOULD BE WORN.
Unusual Fire/Explosion Hazard: CLOSED CONTAINER MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT OR BURST WHEN CONT

AMINATED WITH WATER (CARBON DIOXIDE RELEASED).

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

Spill Release Procedures:EVACUATE ALL NON-ESSENTIAL PERSONNEL AND REMOVE ALL SOURCES OF IGNITION. VENTILATE AREA. EQUIP CLEAN UP CREW WITH APPROPRIATE PROTECTIVE EQUIPMENT. AVOID BREATHING VAPORS, AVOID SKIN CONTACT. COVER SPILL WITH INERT ABSORBENT. COLLECT MATERIAL IN OPEN CONTAINERS.

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

Handling and Storage Precautions:PRECAUTIONS MUST BE TAKEN SO THAT PERSONS HANDLING THIS PRODUCT DO NOT BREATHE THE VAPORS OR HAVE IT CONTACT THE EYES OR SKIN. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED TO COMPLY WITH OSHA'S 29 CFR 1910.106.

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

Respiratory Protection:A PROPERLY FITTED AIR-PURIFYING RESPIRATOR.
Ventilation:EXHAUST VENTILATION SUFFICIENT.
Protective Gloves:PERMEATION RESISTANT GLOVES.
Eye Protection:USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS.
Other Protective Equipment:SAFETY SHOWERS AND EYE WASH STATIONS SHOULD BE AVAILABLE. EDUCATE AND TRAIN EMPLOYEES IN THE SAFE USE OF THIS PRODUCT.
Work Hygienic Practices:MEDICAL SUPERVISION OF ALL EMPLOYEES WHO HANDLE OR COME IN CONTACT WITH THIS PRODUCT IS RECOMMENDED.
Supplemental Safety and Health

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

Boiling Pt:B.P. Text:LO-295.0 F-HI-305.0 F
Vapor Pres:2.14
Vapor Density:3.94
Spec Gravity:1.200
VOC Pounds/Gallon:362
Evaporation Rate & Reference:.400 (N-BUTYL ACETATE=1)
Solubility in Water:REACTS WITH WATER
Appearance and Odor:LIQUID OPAQUE LIQUID SOLVENT ODOR
Percent Volatiles by Volume:44.3145

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

Stability Indicator/Materials to Avoid:YES
CONTAMINATION WITH WATER, EPOXY CATALYSTS, ALCOHOLS, GLYCOL ETHERS, BASES, METAL COMPLEXES OR OTHER ACTIVE MATERIALS.
Stability Condition to A

void:ONCE THE MATERIAL HAS BEEN EXPOSED TO ANY OF THE ABOVE OR ATMOSPHERIC MOISTURE, DO NOT RESEAL CONTAINER AS HAZARDOUS CARBON DIOXIDE GAS COULD BUILD UP IN THE CONTAINER.
Hazardous Decomposition Products:MAY PRODUCE HAZARDOUS FUMES WHEN HEATED TO DECOMPOSITION AS IN WELDING. FUMES MAY CONTAIN THE FOLLOWING! CARBON MONOXIDE, CARBON DIOXIDE, CHLORINE, HYDROGEN CHLORIDE AND POSSIBLE CYANIDE.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

=====
I Information =====

Toxicological Information:ACUTE TOXICITY: INHAL: LC50: >5 MG/L/4 HRS (RATS, DATA FROM SIMILAR TONER). INGEST: ORAL LD50: >2000 MG/KG (RATS, DATA FROM TONER INGREDIENTS). EYE CONTACT: NOT CLASSIFIED AS IRRITANT, ACCORDING TO OSHA HAZARD COMMUNICATION STANDARD (HCS) & EU DIRECTIVE 67/548/EEC BASED ON TEST DATA OF RABBITS. SKIN CONTACT: NOT CLASSIFIED AS IRRITANT, ACCORDING TO OSHA HCS & EU DIRECTIVE 67/548/EEC BASED ON TEST DATA OF RABBITS. CHRONIC TOXICITY: NO DATA AVAIL. SENSIT: NOT CLASSIFIED AS SENSITIZER ACCORDING TO ANNEX 1 OF EU DIRECTIVE 67/548/EEC & FHSA. MUTAGENICITY: NEGATIVE (AMES TEST: SALMONELLA TYPHIMURIUM). (OTHER INFO)

=====
Ecological Information =====

Ecological:NO DATA AVAILABLE FOR ECOLOGICAL AND WASTEWATER TREATMENT (SEWAGE) SYSTEMS.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.

=====
MSDS Transport Information =====

Transport Information:INTERNATIONAL TRANSPORT INFORMATION: UN NO: 2807. UN SHIPPING NAME: MAGNETIZED MATERIAL. HAZARDS CLASS: 9. PACKING GROUP: NONE. SPECIAL PRECAUTIONS: 73 OR MORE OF THESE PRODUCTS SHIPPED TOGETHER BY AIR ARE REGULATED AS MAGNETIZED MATERIAL.

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

SARA Title III Information:THIS PRODUCT CONTAINS T

THE FOLLOWING TOXIC

CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF
THE EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT OF 1986 AND
OF 40 CFR 372. 1,2,4 TRIM ETHYLBENZENE 95-63-6 5.4860%

State Regulatory Information:

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

=====

Disclaimer (provided with this information by the compiling agencies):

This information is formulated fo

r use by elements of the Department

of Defense. The United States of America in no manner whatsoever,

expressly or implied, warrants this information to be accurate and

disclaims all liability for its use. Any person utilizing this

document should seek competent professional advice to verify and

assume responsibility for the suitability of this information to their

particular situation.