

LORD CORPORATION -- AEROGLAZE M1433 PART A, ELASTOMERIC MIDCOAT, --  
8010-01-054-7224

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

Product ID:AEROGLAZE M1433 PART A, ELASTOMERIC MIDCOAT,

MSDS Date:02/12/1997

FSC:8010

NIIN:01-054-7224

Status Code:A

MSDS Number: CKFZG

=== Responsible Party ===

Company Name:LORD CORPORATION

Address:2000 WEST GRANDVIEW BLVD

City:ERIE

State:PA

ZIP:16514-0038

Country:US

Info

Phone Num:814-868-3611

Emergency Phone Num:1-814-763-2345

CAGE:30676

=== Contractor Identification ===

Company Name:LORD CORPORATION, CHEMICAL PRODUCTS DIVISION

Address:2000 WEST GRANDVIEW BLVD

Box:City:ERIE

State:PA

ZIP:16514-0038

Country:US

Phone:814-868-3611

CAGE:30676

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

Ingred Name:METHYL N-AMYL KETONE

CAS:110-43-0

RTECS #:MJ5075000

&lt; Wt:10.

OSHA PEL:100 PPM

ACGIH TLV:50 PPM

Ingred Name:TOLUENE

CAS:108-88-3

RTECS #:XS52

50000  
&lt; Wt:25.  
Other REC Limits:300 PPM (CEILING)  
OSHA PEL:200PPM  
ACGIH TLV:50 PPMM  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:TOLUENE 2,4-DIISOCYANATE  
CAS:584-84-9  
RTECS #:CZ6300000  
&lt; Wt:1.  
Other REC Limits:0.02 PPM CEILING  
ACGIH TLV:0.005 PPM  
ACGIH STEL:0.02 PPM  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES  
OSHA:YES

Health Hazards Acute and Chronic:FLAMMABLE LIQUID AND VAPOR. HARMFUL  
IF ABSORBED THROUGH SKIN. MAY CAUSE ALLERGIC SKIN REACTION. MAY  
CAUSE ALLERGIC RESPIRATORY REACTION. VAPOR HARMFUL; MAY AFFECT THE  
BRAIN OR NERVOUS SYSTM CAUSI NG DIZZINESS, HEADACH OR NAUSEA.  
CAUSES SKIN AND EYE IRRITATION. CAUSES RESPIRATORY TRACT  
IRRITAION. MAY CAUSE LIVER OR KIDNEY DAMAGE. REPEATED OR  
PROLONGED SOLVENT OVEREXPOSURE MAY RESULT IN PERMANENT CENTRAL  
NERVOUS  
SYSTEM DAMAGE. MAY AFFECT THE GASTROINTESTINAL SYSTEM.  
MAY AFFECT THE BLOOD AND BLOOD-FORMING ORGANS. CHRONIC SKIN  
CONTACT MAY CAUSE DERMATITIS.

Explanation of Carcinogenicity:FORMALDEHYDE (GAS), ENTRAPPED IN THIS  
PRODUCT MAY BE RELEASED DURING HEATING AND MIXING. IT HAS BEEN  
IDENTIFIED BY NTP, IAREC, AND OSHA AS A POTENTIAL HUMAN CARCINOGEN.

Effects of Overexposure:EYE CONTACT: CAUSES EYE IRRITATION.SKIN  
CONTACT: MAY BE ABSORBED THROUGH THE SKIN IN HARMFUL AMOUNTS. MA

Y  
CAUSE SKIN SENSITIZATION. MAY CAUSE DERMATITIS. CAUSES SKIN  
IRRITATION. INHALATION: POSS IBLE IRRITATION OF THE RESPIRATORY  
SYSTEM CAN OCCUR CAUSING A VARIETY OF SYMPTOMS SUCH AS DRYNESS OF  
THE THROAT, TIGHTNESS OF THE CHEST, AND SHORTNESS OF THE BREATH.  
ALLERGIC CONDITIONS CAN ODDUR IN CERTAIN INDIVIDUALS WITH HIGH  
SENSITIVITY TO ISOCYANATES; THIS MAY RESULT IN ASTHMNA LIKE  
SYMPTOMS. \*

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

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First Aid: EYE: FLUSH IMMEDIATELY W/LARGE AMOUNT OF WATER @LEAST 15 MINUTES HOLDING EYELIDS OPEN WHILE FLUSHING. GET PROMPT MEDICAL ATTENTION. SKIN: FLUSH SKIN W/LARGE AMOUNTS OF WATER WHILE REMOVING CONTAMINATED CLOTHING. WASH AFFECTED AREAS W/ SOAP & WATER. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. INHALATION: MOVE PERSON TO FRESH AIR. RESTORE & SUPPORT CONTINUED BREATHING. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET IMMEDIATE MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GIVE VICTIM 1-2 GLASSES WATER/MILK. CALL PHYSICIAN/POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point: =18.9C, 66.F  
66F

Lower Limits: .9  
Upper Limits: 9.5

Extinguishing Media: CO2, DRY CHEMICAL, FOAM, WATER FOG

Fire Fighting Procedures: WEAR FULL FIREFIGHTING PROTECTIVE CLOTHING, INCLUDING SELF-CONTAINED BREATHING APPARATUS (SCBA). WATER SPRAY MAY BE INEFFECTIVE. IF WATER IS USED, FOG NOZZLES ARE PREFERABLE.

DURING A FIRE, IRRITATING AND OR TOXIC GASES AND PARTICULATES MAY BE GENERATED BY THERMAL DECOMPOSITION OR COMBUSTION.

Unusual Fire/Explosion Hazard: FLAMMABLE LIQUID AND VAPOR. KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS, OPEN FLAME, AND OTHER SOURCES OF IGNITION. CLOSED CONTAINERS MAY RUPTURE WHEN EXPOSED TO EXTREME HEAT. USE WATER SPRAY TO KEEP FIRE EXPOSED CONTAINERS COOL.

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

Spill Release Procedures: KEEP NON-ESSENTIAL PERSONNEL SAFE DISTANCE AWAY. REMOVE ALL SOURCES OF IGNITION (FLAME, HOT SURFACES, & ELECTRICAL, STATIC/FRICTIONAL SPARKS). AVOID BREATHING VAPORS. USE SCBA. NOTIFY APPROPRIATE AUTHORITIES IF NECESSARY. CONTAIN & REMOVE W/ INERT ABSORBENT MATERIAL & NON-SPARKING TOOLS. AVOID CONTACT. BEFORE ATTEMPTING CLEANUP, REFER TO HAZARD CAUTION INFORMATION IN OTHER SECTIONS OF MSDS FORM.

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Handling and Storage =====

Handling and Storage Precautions:DO NOT STORE OR USE NEAR HEAT, SPARKS OR OPEN FLAME. REFER TO OSHA 29 CFR PART 1910.106 :FLAMMABLE AND COMBUSTIBLE LIQUIDS: FOR SPECIFIC STORAGE REQUIRMENTS. STORE ONLY IN WELL-VENTILATED AREAS. DO NOT PUNCTURE, DRAG, OR SLIDE CONAINER. KEEP CONTAINER CLOSED WHEN NOT IN USE.

Other Precautions:KEEP TIGHTLY CLOSD&UPRGHT-PREVNT LEAK.GROUND&BOND WH-TRANSFRRING MTERIAL.AVOID SKIN&EYE CNTACT.WASH AFT R USING.AVOID BREATHNG VPOR/SPRAY MSTS.DO'NT USE UNTIL SFETY PRCAUTIONS ARE READ&UNDRSTOOD.EMPTY C NTAINERS?HAVE RESIDUE&FLAMMBLE VPORS,KEEP AWAY F/HEAT,SPRKS&FLME;DON'T CUT,PUNCTRE/WELD NEAR CNTAINE R.DON'T SMOKE.

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

Respiratory Protection:THIS PRODUCT CONTAINS ISOCYANATE WHICH HAVE POOR ODOR WARNING PROPERTIES. IF OCCUPATIONAL EXPOSURE LIMITS ARE EXCEEDIED, A NIOSH/MSHA APPROVED SUPPLIED-AIR RESPIRATOR IS REQUIRED. OBSERVE OSHA REGUL ATIONS (29 CFR 1910.134) FOR RESPIRATOR USE.

Ventilation:SUFFICIENT VENTILATION IN PATTERN AND VOLUME SHOULD BE PROVIDED IN ORDER TO MAINTAIN AIR CONTAMINANT LEVELS BELOW RECOMMENDED EXPOSURE LIMITS.

Protective Gloves:USE NEOPRENE, NITRILE, OR RUBBER GLOVES TO PREVENT SKIN CONTACT.

Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS AND CHEMICAL GOGGLES

Other Protective Equipment:USE A DISPOSABLE OR IMPERVIOUS CLOTHING IF WORK CLOTHING CONTAMI NATION IS LIKELY. REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE.

Work Hygienic Practices:WASH HANDS BEFORE EATING,SMOKING/USING TOILET.DO NOT SMOKE IN CHEMICAL HANDLING/STORAGE AREA.FOOD/DRINKS SHOULD NOT BE CONSUMED WHERE PRODUCT IS. WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

CAUTION: SOLVENT VAPORS ARE HEAVIER THAN AIR AND COLLECT IN LOWER LEVELS OF THE WORK AREA. SUFFICIENT VENTILATION (USING EXPLOSION-PROOF EQUIPMENT) SHOULD BE PROVIDED TO

PREVENT FLAMMABLE  
VAPOR/AIR MIXTURES FROM ACCUMULATING.

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

Boiling Pt:>111.1C, 232.F  
B.P. Text:232-484  
Vapor Density:>AIR  
Volatile Org Content %:29  
Spec Gravity:1.08  
Evaporation Rate & Reference:SLOWER THAN ETHER  
Solubility in Water:INSOLUBLE  
Appearance and Odor:GREY LIQUID/SOLVENT ODOR  
Percent Volatiles by Volume:35.3

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

Stability Indicator/Materials t  
o Avoid:YES  
AMINES, ACIDS, WATER, HYDROXYL, OR ACTIVE HYDROGEN COMPOUNDS.  
Stability Condition to Avoid:HIGH TEMPERATURES. SOURCES OF IGNITION.  
Hazardous Decomposition Products:CO<sub>2</sub>, CO, MONOMERIC ISOCYANATE, TRACES  
OF HYDROGEN CYANIDE, NITROGEN DIOXIDE.

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

Toxicological Information:\* INHALATION MAY CAUSE CENTRAL NERVOUS SYSTEM  
DEPRESSION CHARACTERIZED BY THE FOLLOWING PROGRESSIVE STEPS:  
HEADACHE, DIZZINESS, STAGGERIN  
G GAIT, CONFUSION, UNCONSCIOUSNESS OR  
COMA. MAY CAUSE RESPIRAT ORY SENSITIZATION. MAY CAUSE LUNG  
DAMAGE. INGESTION: HARMFUL IF SWALLOWED. INGESTION IS NOT AN  
EXPECTED ROUTE OF ENTRY IN INDUSTRIAL OR COMMERCIAL USES.

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

Waste Disposal Methods:DISPOSAL SHOULD BE DONE IN ACCORDANCE WITH  
FEDERAL (40 CFR PART 261), STATE AND LOCAL ENVIRONMENTAL CONTROL  
REGULATIONS. IF WAST IS DETERMINED TO BE HAZARDOUS, USE L  
ICENSED  
HAZARDOUS WASTE TRANSPORTE R AND DISPOSAL FACILITY.

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

Transport Information:DOT NAME: PAINT UN #: 1263 DOT HAZARD CLASS:  
3 EMERGENCY RESPONSE GUIDE NUMBER: 26 PACKING GROUP: II  
TOXIC SUBSTANCES CONTROL ACT: EXPORT NOTIFICATION: THIS PRODUCT  
CONTAINS THE FOLLOWIN G CHEMICAL SUBSTANCES SUBJECT OT THE  
REPORTING RREQUIREMENTS OF TSCA 12(B) IF EXPORTTED FROM THE UNITED  
STATES: 1) ISOPRO

PANOL INTERNATIONAL REGULATIONS: AS FOLLOWS:

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===== Regulatory Information =====  
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State Regulatory Information:

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