

1FID: 00221364
VER DATE: 1989-08-04

C H E M I S T R I
MATERIAL SAFETY DATA SHEET

DATE: 10/22/02
TIME: 19:01:43
PAGE: 0001

SECTION 01: CHEMICAL PRODUCT & COMPANY ID

PRODUCT PRIMARY NAME: STRUCTURAL BONDING EPOXY
ALL SYNONYMS : AD-87
FUSOR SMC BODY PANEL REPAIR ADHESIVE
GOODWRENCH STRUCTURAL BONDING EPOXY
STRUCTURAL BONDING EPOXY
12345726
5577
89PS0226

MSDS SIGNED BY NAME: MARK A. SHEEL
MSDS SIGNED BY TITLE: SENIOR CHEMIST

SAFE USE CATEGORY AND DESCRIPTION: 05 -ADHESIVES - SOLVENT-BASED
POLYURETHANES,

LAST UPDATED DATE: 1989-08-29

MANUFACTURER'S ID (MID): 000535350
MANUFACTURER'S NAME: LORD CORP, CHEMICAL PRODUCTS GROUP
MANUFACTURER'S EMERGENCY PHONE NUMBER/TEXT: US 814-763-2345
MANUFACTURER'S MAILING ADDRESS:

2000 W GRANDVIEW BLVD
P.O. BOX 10038
ERIE PA 16514
US

CHEMICAL FAMILY NAME: EPOXY RESIN AND AMINE HARDENER

MOLECULAR FORMULA: MIXTURE

SECTION 02: COMPOSITION & INGREDIENT INFO

CAS#	FORMULATION	W/V	CHEMICAL NAME
000108952	R 3.0000/ 4.9000%	W	PHENOL
000111466	R 0.1000/ 4.0000%	W	DIETHYLENE GLYCOL
007429905	R 2.0000/ 10.0000%	W	Aluminum
007631869	R 1.0000/ 10.0000%	W	Silica
013463677	R 0.1000/ 2.0000%	W	TITANIUM OXIDE
014807966	R 8.0000/ 40.0000%	W	TALC (powder), containing no asbes tos fibers
025068386	R 25.0000/ 45.0000%	W	Phenol, 4,4'-(1-methylethylidene)b is-, polymer with (chloromethyl)ox irane
989949302	R 3.0000/ 20.0000%	W	MIXTURE OF LOW MW POLYETHYLENE DIA MINES
989956313	R 3.0000/ 20.0000%	W	POLYAMID RESIN

THRESHOLD LIMIT VALUE: NOT EST.

PERMISSIBLE EXPOSURE LIMIT: NOT EST.

CERCLA (SUPERFUND) REPORTABLE QUANTITY (LBS): PHENOL - 1,000LBS.

SECTION 03: HAZARDS IDENTIFICATION

PRIMARY ENTRY ROUTE INDICATORS:

SKIN PRIMARY ENTRY ROUTE INDICATOR =	Y
EYE PRIMARY ENTRY ROUTE INDICATOR =	N
INHALATION PRIMARY ENTRY ROUTE INDICATOR =	N
INGESTION PRIMARY ENTRY ROUTE INDICATOR =	Y

PRIMARY ROUTES OF ENTRY TEXT: SKIN CONTACT, INGESTION.

EFFECTS OF OVEREXPOSURE: ACUTE (SHORT TERM): PRIMARY IRRITATION.
CHRONIC (LONG TERM): POLYAMIDE RESIN MAY CAUSE SKIN SENSITIZATION.
FORMULATION MAY CAUSE KIDNEY DAMAGE. MEDICAL CONDITIONS PRONE TO
AGGRAVATION BY EXPOSURE: CHRONICAL DISEASES OF THE SKIN, LIVER OR
KIDNEY.

SECTION 3 - OTHER INFORMATION: NOT EST.

SECTION 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES - GENERAL: INHALATION: MOVE PERSON TO
FRESH AIR, RESTORE BREATHING. TREAT SYMPTOMATICALLY. CONSULT A
PHYSICIAN. FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT
LEAST 15 MINUTES. TAKE TO A PHYSICIAN FOR MEDICAL TREATMENT. SPLASH
SKIN WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. CONSULT
PHYSICIAN IF IRRITATION PERSISTS. INGESTION: DRING ONE OR TWO GLASSES
OF WATER TO DILUTE. DO NOT INDUCE VOMITING. CONSULT A PHYSICIAN OR
POISON CONTROL CENTER IMMEDIATELY. TREAT SYMPTOMATICALLY.

SECTION 05: FIRE-FIGHTING MEASURES

FLAMMABLE LEL: 1.50

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER FOG.

SPECIAL FIRE FIGHTING PROCEDURES: FULL PROTECTIVE EQUIPMENT, INCLUDING
SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED. WATER MAY BE USED TO
COOL CONTAINERS TO PREVENT PRESSURE BUILDUP AND POSSIBLE AUTOIGNITION
OR EXPLOSION.

UNUSUAL FIRE AND EXPLOSION HAZARDS: WATER MAY BE USED TO COOL
UNRUPTURED CONTAINERS TO PREVENT PRESSURE BUILDUP. CLOSED CONTAINERS
MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT.

NFPA CODES:

NFPA FLAMMABILITY CODE =	0
NFPA HEALTH CODE =	3
NFPA REACTIVITY CODE =	1

FLASH POINT TEMPS: 93.00C/ 200.00F

FLASH POINT TEXT: 200F (93C)

SECTION 06: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: CONTAIN AND REMOVE WITH INERT ABSORBENT MATERIAL. AVOID CONTACT.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: DO NOT STORE OR USE NEAR HEAT OF OPEN FLAME. DO NOT STORE ABOVE 110F. REFER TO OSHA 29CFR PART 1910.106 FOR SPECIFIC STORAGE REQUIREMENTS.

SECTION 7 - OTHER INFORMATION: AVOID SKIN CONTACT. CAN CAUSE ALLERGIC SKIN REACTION. DO NOT HANDLE UNTIL THE MANUFACTURER'S SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD.

SECTION 08: EXPOSURE CONTROLS - PROTECTION

EYE PROTECTION: EYE GLASSES WITH SIDE SHIELD. GOGGLES SHOULD BE USED NEAR PRESSURIZED SYSTEMS.

RESPIRATORY PROTECTION: IF AIR MONITORING INDICATES LEVELS OVER THE RECOMMENDED EXPOSURE LIMITS USE APPROVED ORGANIC VAPOR FILTERS OR VENTILATION TO REMOVE ORGANIC VAPORS AND FURME.

PERSONAL PROTECTIVE EQUIPMENT: USE PROTECTIVE CREAM IF SKIN CONTACT IS LIKELY. IMMEDIATELY REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE. USE LONG SLEEVE SHIRTS AND TROUSERS TO MINIMIZE SKIN CONTACT AND EXPOSURE.

SECTION 8 - OTHER INFORMATION: VENTILATION: SUFFICIENT AND COMPLETE VENTILATION TO KEEP EXPOSURES BELOW APPLICABLE EXPOSURE LIMITS. ALL APPLICATION AREAS SHOULD BE VENTILATED IN ACCORDANCE WITH OSHA REG. 29CFR1910.94.

PROTECTIVE GLOVES (SPECIFY TYPE): NEOPRENE OR RUBBER

SECTION 09: PHYSICAL & CHEMICAL PROPERTIES

BOILING POINT TEMPS: 181.00C/ 358.00F
BOILING POINT TEXT: 358F

SPECIFIC GRAVITY VALUES: = 1.3000
SPECIFIC GRAVITY TEXT: =1.3

VAPOR DENSITY TEXT: N/A

VAPOR PRESSURE VALUES/UOM: 0.5000MMHG
VAPOR PRESSURE TEXT: 0.5MM HG @ 20C

PERCENT VOLATILE BY VOLUME TEXT: 0

PERCENT SOLID BY WEIGHT VALUES: 100.0000
PERCENT SOLID BY WEIGHT TEXT: 100

EVAPORATION RATE TEXT: N/A

PH OF PRODUCT IN SOLUTION WITH WATER/TEXT: N/A

APPEARANCE: TWO-COMPONENT SYSTEM OF GRAY PASTE AND WHITE PASTE

PHYSICAL STATE: PAS

PHYSICAL STATE TEXT: PASTE

SECTION 10: STABILITY & REACTIVITY

STABILITY INDICATOR: Y

STABILITY - CONDITIONS TO AVOID: HIGH TEMPERATURE, UNCONTROLLED MIXING OF THE TWO COMPONENTS.

STABILITY - TEXT: YES

INCOMPATIBLE MATERIALS: STRONG ACIDS AND STRONG OXIDIZING MATERIALS.

HAZARDOUS DECOMPOSITION PRODUCTS: UNKNOWN BUT MAY CONTAIN CARBON MONOXIDE, ORGANIC OR NONORGANIC NITROGEN COMPOUNDS.

HAZARDOUS POLYMERIZATION INDICATOR: N

HAZARDOUS POLYMERIZATION TEXT: NO

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH FEDERAL (40CFR, PART 261), STATE AND LOCAL REGULATIONS. BEFORE ATTEMPTING CLEAN-UP, REFER TO HAZARD CAUTION INFORMATION IN OTHER PART OF THE MSDS. USE LICENSED HAZARDOUS WASTE DISPOSAL CONCERN.

SECTION 16: OTHER INFORMATION

RCRA HAZARDOUS WASTE NUMBER TEXT: PHENOL - U188

SAFE USE CATEGORY AND DESCRIPTION :

05 ADHESIVES - SOLVENT-BASED POLYURETHANES,

REGULATORY IMPACTS (REG) AND ADDITIONAL HEALTH HAZARD STATEMENTS (HHS) :

CAS#: 000108952 PHENOL

REG:

0001,0003,0004,0006,0007,0009,0010,0011,0012,0016,0017,0019
0020,0021,0023,0024,0031,0032,0034,0035,0036,0037,0038,0039
0041,0042,0047,0048,0053,0056,0058,0059,0061,0064,0065,0066
0068,0070,0078,0083,0084,0088,0089,0091,0104,0105,0106,0109
0112,0117,0123

HHS:

OVEREXPOSURE MAY RESULT IN SKIN BURNS, EYE DAMAGE, ABDOMINAL PAIN,
MUSCLE WEAKNESS, CONVULSIONS, LIVER AND KIDNEY DAMAGE. EXTREMELY
TOXIC BY SKIN CONTACT.

CAS#: 000111466 DIETHYLENE GLYCOL

REG: 0012,0061,0070,0084

CAS#: 007429905 Aluminum

REG: 0003,0010,0012,0017,0019,0020,0023,0032,0038,0039,0042,0047
0056,0061,0063,0064,0065,0068,0069,0084,0088

CAS#: 007631869 Silica

REG: 0003,0004,0005,0012,0017,0019,0032,0038,0040,0061,0065

HHS: LONG-TERM OVEREXPOSURE MAY RESULT IN RESPIRATORY SYSTEM EFFECTS,
PNEUMOCONIOSIS. PROLONGED OR REPEATED EXPOSURE MAY RESULT IN AN
INCREASED CANCER RISK.

CAS#: 013463677 TITANIUM OXIDE

REG: 0001,0003,0012,0023,0031,0032,0038,0039,0056,0061,0063,0065
0084

CAS#: 014807966 TALC (powder), containing no asbestos fibers

REG: 0003,0004,0012,0017,0032,0038,0039,0061,0063,0065

HHS: REFER TO THE APPROPRIATE SAFE USE INSTRUCTION FOR HEALTH HAZARD
INFORMATION.

CAS#: 025068386 Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (ch

REG: 0011,0012

REGULATORY KEY LIST:

0001	OSHA-PEL	0003	ACGIH-TLV	0004	GM-SPEC CHEM
0005	SUSP CARCIN	0006	EPA HW261.33	0007	EPA HW-APP 8
0008	MCMR	0009	FWPC-SEC 311	0010	EPA PRIORPOL
0011	NY SUBS CONC	0012	TSCA INV	0014	MI AIR POLLU
0015	SUP TAX CHEM	0016	MI HW-ACT 64	0017	CA HAZ SUBST
0018	NY SAN 22.8	0019	MA SUBST	0020	NJ ENV SUBST
0021	TOX ORGANICS	0022	MD CLASS I	0023	MD CLASS II
0024	EPA-ATC-I	0026	EPA-CHEMCONC	0027	WB VERY TOX
0028	WB OTHER TOX	0031	ALLGHNY CTY	0032	IL-RTK
0033	OSHA-HHCL	0034	FLT CRIT IND	0035	GM-AHC
0036	PRO EP TOX	0037	MO SPECIES	0038	MO-RTK
0039	ONT 654-86	0040	ONT DES SUB	0041	SARA312EXHAZ
0042	WI TABLE 1	0043	WI TABLE 2	0047	SARA 313
0048	CERCLASEC103	0049	P-65 CARCINO	0050	P-65 REP TOX
0051	MD CLSI .11	0052	MD CLSI .12	0053	MD CLSII .12
0054	CT 29-1	0055	CT 29-2	0056	CT 29-3
0058	EPA261.33(F)	0059	CA AIR TOX 1	0060	CA AIR TOX 2
0061	PA RTK	0063	PELS REVISED	0064	NPDES-TOXPOL
0065	NJ W&C RTK	0066	CAA HAZ POL	0067	NV HIGH HAZ.
0068	MI 307-CARC	0069	MI 307-NCARC	0070	MICH AIR
0071	CAA602 CLSI	0075	C	0076	D
0078	GREAT LAKES	0080	METALS	0082	EPA 112(R)
0083	TSCA 8(D))	0084	GM OEG	0085	TSCA-TEST
0087	TSCA 12(B)	0088	NAT. POLL. REL	0089	NY CHEM BULK

0090	GL PERSIST	0091	LAND DISP. - II	0092	UAW/GM AUDIT
0093	TSCA - SPECIAL	0095	FIFRA REG MAT	0098	DSL - CANADA
0099	NDSL - CANADA	0102	GM 1000M	0103	CAA SEC. 112(R)
0104	CERCLA-HAZWOPER	0105	GLPPP-SPECIFIC	0106	GLPPP-SPECIFIC
0107	PET. DISTILLATE	0109	APPENDIX IX	0110	GLOBAL WARM CMP
0112	RCRA PBT -DRAFT	0113	IARC-GROUP 2B	0115	IARC-GROUP 1
0116	GMW 3059-RESTR.	0117	GMW 3059-REPORT	0118	T.W. REPORT
0121	HEX CHROME, PB,	0122	ACDM-REPORTING	0123	MDEQ PART 5

GMBA/PLANT USING THIS FID:

GMBA: 000550678 SPO - DISTRIBUTABLE MATERIALS
CISCO: 17001;
STATUS :ACTIVE

GMBA: 000550773 CLCD PONTIAC PRESSED METAL
CISCO: 18200;
STATUS :INACTIVE

GMBA: 000550783 BOC LANSING
CISCO: 19027;
STATUS :INACTIVE

GMBA: 000550796 LAD - LANSING
CISCO: 19300;
STATUS :ACTIVE

GMBA: 000550875 GMTG - JANESVILLE ASSEMBLY
CISCO: 48027;
STATUS :INACTIVE

GMBA: 000550884 GMTG - PONTIAC EAST ASSEMBLY
CISCO: 48069;
STATUS :INACTIVE

GMBA: 000550957 CHEMICAL RISK MANAGEMENT
CISCO: 89150;
STATUS :ACTIVE

GMBA: 000550973 PARTS FABRICATION - WARREN
CISCO: 94377;
STATUS :INACTIVE

GMBA: 000550976 GM TECHNICAL CENTER, TOTAL SITE
CISCO: 96003;
STATUS :ACTIVE

GMBA: 000551424 SERVICE TECHNOLOGY HEADQUARTERS
CISCO: 18400;
STATUS :ACTIVE

GMBA: 000556705 ENVIRONMENTAL SYSTEMS HELPDESK
CISCO: 99004;
STATUS :ACTIVE