

1FID: 00191580  
VER DATE: 1992-05-13

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

DATE: 10/22/02  
TIME: 19:01:32  
PAGE: 0001

-----  
SECTION 01: CHEMICAL PRODUCT & COMPANY ID  
-----

PRODUCT PRIMARY NAME: GM INLITE DELCO 241 DRUM BRAKE LINING, DM-5480

ALL SYNONYMS : BRAKE LINING  
BRAKE LINING METALLIC  
COMPOUND 4064  
DISC BRAKE LINING, METALLIC  
DISK BRAKE LINING, METALLIC  
DM-5480  
E3628  
GM INLITE DELCO 241 DRUM BRAKE  
GM INLITE DELCO 241 DRUM BRAKE LINING, DM-5480  
INLAND 4064  
METALLICBL  
N-ASBESTOS  
NON-ASBESTOS BRAKE LINING  
WHITE TRUNK PAINT  
12300252  
12321427  
12321432  
12321433  
171-0434  
171-0453  
171-0458  
171-0463  
18012259  
18014692  
18014758  
18014760  
1985 M-VAN  
1987 M-VAN  
1988 JN-1-3-5 TRUCKS  
1988 JN-6 TRUCKS  
4064

MSDS SIGNED BY NAME: JAMES L. STUKENBORG  
MSDS SIGNED BY TITLE: SR. DEV. CHEMIST

SAFE USE CATEGORY AND DESCRIPTION: 16 -GENERAL USE

LAST UPDATED DATE: 1999-06-01

MANUFACTURER'S ID (MID): 000551826  
MANUFACTURER'S NAME: DELPHI CHASSIS SYSTEMS - HOME AVE/VANDAL  
MANUFACTURER'S MAILING ADDRESS:

P.O. BOX 1224, MS V-53  
DAYTON OH 45401  
US

CHEMICAL FAMILY NAME: MIXTURE

MOLECULAR FORMULA: NA

-----  
SECTION 02: COMPOSITION & INGREDIENT INFO  
-----

CAS#	FORMULATION	W/V	CHEMICAL NAME
001309484	< 0.0000/ 10.0000%	W	Magnesium oxide
001314132	< 0.0000/ 15.0000%	W	ZINC OXIDE
001333864	< 0.0000/ 10.0000%	W	Carbon black
007439896	< 0.0000/ 10.0000%	W	Iron
007727437	< 0.0000/ 25.0000%	W	BARIUM SULFATE
007782425	< 0.0000/ 10.0000%	W	Graphite
009003354	< 0.0000/ 20.0000%	W	Phenol, polymer with formaldehyde
989940992	< 0.0000/ 10.0000%	W	CASHEW NUT SHELL FRICTION PARTICLE
989947791	< 0.0000/ 50.0000%	W	CHOPPED STEEL WOOL FIBER
989973314	< 0.0000/ 10.0000%	W	NITRILE RUBBER

THRESHOLD LIMIT VALUE: NUISANCE DUSTS: 10MG/M3  
-----

SECTION 03: HAZARDS IDENTIFICATION  
-----

PRIMARY ENTRY ROUTE INDICATORS:

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

PRIMARY ROUTES OF ENTRY TEXT: INHALATION

EFFECTS OF OVEREXPOSURE: AVOID GENERATION OF DUSTS. OVEREXPOSURE MAY RESULT IN ADVERSE PULMONARY EFFECTS.  
-----

SECTION 04: FIRST AID MEASURES  
-----

EMERGENCY FIRST AID PROCEDURES - GENERAL: NONE  
-----

SECTION 05: FIRE-FIGHTING MEASURES  
-----

EXTINGUISHING MEDIA: STANDARD A-B-C EXTINGUISHMENT

SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE AND EXPLOSION HAZARDS: AS WITH ALL DUSTS, AVOID DUST BUILD-UP. POTENTIAL FOR EXPLOSION UNDER CERTAIN CONDITIONS.

NFPA CODES:

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

SECTION 06: ACCIDENTAL RELEASE MEASURES  
-----

SPILL OR LEAK PROCEDURES: NA  
-----

SECTION 07: HANDLING AND STORAGE  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: AVOID WET OR DAMP STORAGE THAT COULD RUST GROUND SURFACES.

SECTION 7 - OTHER INFORMATION: USE GLOVES FOR HANDLING DUE TO SOME PROTRUDING METAL FIBERS. SPARKS MAY BE PRODUCED UNDER SOME GRINDING CONDITIONS.

---

SECTION 08: EXPOSURE CONTROLS - PROTECTION

---

EYE PROTECTION: GOGGLES OR FACE SHIELD DURING GRINDING OPERATION.

RESPIRATORY PROTECTION: NA

PROTECTIVE GLOVES (SPECIFY TYPE): LEATHER GLOVES

---

SECTION 09: PHYSICAL & CHEMICAL PROPERTIES

---

BOILING POINT TEXT: NA

SPECIFIC GRAVITY VALUES: R 2.3000- 2.7500

SPECIFIC GRAVITY TEXT: R 2.30-2.75

VAPOR DENSITY TEXT: NA

VAPOR PRESSURE TEXT: NA

PERCENT VOLATILE BY VOLUME TEXT: NA

PERCENT SOLID BY WEIGHT VALUES: 100.0000

PERCENT SOLID BY WEIGHT TEXT: 100

EVAPORATION RATE TEXT: NA

SOLUBILITY IN WATER TEXT: NA

PH OF PRODUCT IN SOLUTION WITH WATER/TEXT: NA

APPEARANCE: BLACK SOLID, CHARACTERISTIC ODOR

PHYSICAL STATE: SOL

PHYSICAL STATE TEXT: SOLID

---

SECTION 10: STABILITY & REACTIVITY

---

STABILITY INDICATOR: Y

STABILITY - TEXT: YES

INCOMPATIBLE MATERIALS: NA

HAZARDOUS DECOMPOSITION PRODUCTS: NOT DETERMINED

HAZARDOUS POLYMERIZATION INDICATOR: N

HAZARDOUS POLYMERIZATION TEXT: NO

-----  
SECTION 13: DISPOSAL CONSIDERATIONS  
-----

WASTE DISPOSAL METHOD: LANDFILL

-----  
SECTION 14: TRANSPORT INFORMATION  
-----

DOT INFORMATION: SID NO. 2 IS NOT AN APPROVED DOT SHIPPING NAME, BUT IS GIVEN ONLY TO PROVIDE A CLASSIFICATION FOR MATERIALS IN THE CSIS SYSTEM WHICH ARE NOT SUBJECT TO TRANSPORTATION REGULATION, EITHER BY DOT OR ANY OTHER AGENCY.

SHIPPING NAME: NON-REGULATED MATERIAL

HAZARD CLASS: Z:NOT SUBJECT TO DOT HAZARDOUS MAT. REGS.

-----  
SECTION 16: OTHER INFORMATION  
-----

LOCAL EXHAUST: NA

SAFE USE CATEGORY AND DESCRIPTION :

-----  
16 GENERAL USE

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

CAS#: 001309484 Magnesium oxide

REG:

0001,0003,0012,0017,0019,0032,0038,0039,0056,0061,0063,0065  
0084,0122

CAS#: 001314132 ZINC OXIDE

REG:

0001,0003,0004,0012,0019,0023,0038,0039,0042,0056,0059,0061  
0063,0065,0084

REG BY CATEGORY:

0008,0020,0034,0047,0048,0051,0088,0106,0109,0118

HHS:

OVEREXPOSURE MAY RESULT IN METAL FUME FEVER IN WELDING OPERATIONS.

CAS#: 001333864 Carbon black

REG:

0001,0003,0012,0019,0038,0039,0042,0056,0061,0065,0084,0113  
0122

HHS:

IARC CLASSIFICATION OF 2B - POSSIBLY CARCINOGENIC TO HUMANS.

CAS#: 007439896 Iron

REG:

0010,0012,0039,0064,0068,0069,0084,0122

CAS#: 007727437 BARIUM SULFATE

REG:

0003,0012,0023,0039,0061,0063,0065,0084

CAS#: 007782425 Graphite  
REG:  
0003,0012,0017,0019,0038,0039,0061,0063,0065,0084

CAS#: 009003354 Phenol, polymer with formaldehyde  
REG:  
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: 000550848 DELPHI I - VANDALIA  
CISCO: 39002;  
STATUS :INACTIVE  
GMBA: 000550856 DELPHI C - DAYTON OPER. - WISCONSIN BLVD  
CISCO: 41001;  
STATUS :ACTIVE  
GMBA: 000550957 CHEMICAL RISK MANAGEMENT  
CISCO: 89150;  
STATUS :ACTIVE  
GMBA: 000550966 GM PROVING GROUND - MILFORD

CISCO: 94017;  
STATUS :ACTIVE  
GMBA: 000551473 DELPHI C - ENG. TECH. CENTER - DAYTON  
STATUS :ACTIVE  
GMBA: 000551826 DELPHI CHASSIS SYSTEMS - HOME AVE/VANDAL  
CISCO: 34005;  
STATUS :ACTIVE  
GMBA: 000556410 DELPHI AUTOMOTIVE-BRIGHTON  
STATUS :ACTIVE  
GMBA: 000556705 ENVIRONMENTAL SYSTEMS HELPDESK  
CISCO: 99004;  
STATUS :ACTIVE