

1FID: 00181884  
VER DATE: 1989-10-24

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

DATE: 10/22/02  
TIME: 19:01:30  
PAGE: 0001

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SECTION 01: CHEMICAL PRODUCT & COMPANY ID  
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PRODUCT PRIMARY NAME: PERFECT SEAL #4  
ALL SYNONYMS : \*12  
                  \*61  
                  CN00876  
                  CN5653  
                  GASKET SEALING COMPOUND  
                  GM#1050026 PERFECT SEAL #4  
                  GOODWRENCH GASKET SEALING COMPOUND  
                  HM 6623  
                  PERFECT SEAL #4  
                  PERFECT SEAL 4 - GM GASKET SEAL #1050026  
                  PERFECT SEAL 4 GASKET SEALING COMPOUND  
                  PRODUCT ENGRG  
                  SAMPLE  
                  SEALER  
                  TPW1103  
                  WAS FID #30079 (REFORMULATED--SAFE USE CHANGE)  
                  WAS 1050805  
                  0411  
                  1050026  
                  12346146  
                  204276 (OLD FID)  
                  3RF0197  
                  3175  
                  55953HM21  
                  66543 (OLD FID)  
                  8617143

SAFE USE CATEGORY AND DESCRIPTION: 02 -SOLVENTS - FLASH POINT: < 100 F

LAST UPDATED DATE: 1994-03-11

MANUFACTURER'S ID (MID): 000526112  
MANUFACTURER'S NAME: POB INC  
MANUFACTURER'S EMERGENCY PHONE NUMBER/TEXT: US 513-793-6332  
MANUFACTURER'S MAILING ADDRESS:

11100 KENWOOD ROAD  
CINCINNATI OH 45242  
US

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SECTION 02: COMPOSITION & INGREDIENT INFO  
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CAS#	FORMULATION	W/V	CHEMICAL NAME
000067630	= 24.1000/ 0.0000%	W	ISOPROPYL ALCOHOL
000107982	= 4.8000/ 0.0000%	W	2-PROPANOL, 1-METHOXY-
007631869	= 15.5000/ 0.0000%	W	Silica
008001794	= 13.3000/ 0.0000%	W	CASTOR OIL
065996614	= 1.0000/ 0.0000%	W	Pulp, cellulose
068152818	= 41.3000/ 0.0000%	W	Soybean oil, polymd., oxidized

SECTION 2 - OTHER INFORMATION: ISOPROPANOL ALCOHOL AND PROPYLENE GLYCOL METHYL ETHER ARE BOTH FLAMMABLE.

THRESHOLD LIMIT VALUE: ISOPROPANOL ALCOHOL: 400 PPM; PROPYLENE GLYCOL METHYL ETHER: 100 PPM.

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SECTION 03: HAZARDS IDENTIFICATION

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PRIMARY ENTRY ROUTE INDICATORS:

SKIN PRIMARY ENTRY ROUTE INDICATOR = Y  
INHALATION PRIMARY ENTRY ROUTE INDICATOR = Y

EFFECTS OF OVEREXPOSURE: 24% OF THIS PRODUCT CONTAIN 91% ISOPROPANOL  
EFFECTS OF CHRONIC OVER EXPOSURE FOR ISOPROPANOL 99% HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN HUMANS: KIDNEY DAMAGE  
EYES-BLURRED VISION - SKIN IRRITATION - BREATHING - HEADACHE -  
SWALLOWING - VOMITING

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SECTION 04: FIRST AID MEASURES

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EMERGENCY FIRST AID PROCEDURES - SKIN: WASH EXPOSED AREA WITH SOAP AND WATER.

EMERGENCY FIRST AID PROCEDURES - EYES: FLUSH WITH LARGE AMOUNTS OF WATER GET MEDICAL ATTN:

EMERGENCY FIRST AID PROCEDURES - INHALATION: IF AFFECTED, REMOVE INDIVIDUAL TO FRESH AIR.

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SECTION 05: FIRE-FIGHTING MEASURES

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FLAMMABLE LEL: = 3.24  
FLAMMABLE UEL: = 20.60

EXTINGUISHING MEDIA: CARBON DIOXIDE; DRY CHEMICALS FOAM.

SPECIAL FIRE FIGHTING PROCEDURES: WATER MAY BE USED TO COOL CONTAINERS TO PREVENT PRESSURE BUILD-UP AND EXPLOSION WHEN EXPOSED TO EXTREME HEAT

UNUSUAL FIRE AND EXPLOSION HAZARDS: CANS WILL RUPTURE FROM EXTREME HEAT.

NFPA CODES:

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

FLASH POINT TEMPS: = 54.00F  
FLASH POINT TEXT: 54F ASTM D93-71

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SECTION 06: ACCIDENTAL RELEASE MEASURES

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SPILL OR LEAK PROCEDURES: ELIMINATE ALL IGNITION SOURCES. BUILD DIKE OR DAM TO CONTAIN MATERIAL ADD CLAYS SAND OR VERMICULATE TO MATERIAL - USE A PLASTIC SCOOP TO PICK UP THE MATERIAL.

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SECTION 07: HANDLING AND STORAGE

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: NORMAL

SECTION 7 - OTHER INFORMATION: OTHER PRECAUTIONS: WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT BUILD-UP AND EXPLOSION WHEN EXPOSED TO EXTREME HEAT

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SECTION 08: EXPOSURE CONTROLS - PROTECTION

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EYE PROTECTION: SAFETY GLASSES

RESPIRATORY PROTECTION: RESPIRATORY ONLY IF TLV OF ANY COMPONENTS IS EXCEEDED

PERSONAL PROTECTIVE EQUIPMENT: NONE

PROTECTIVE GLOVES (SPECIFY TYPE): AWAITING SPECIFIC GLOVE TYPE INFORMATION FROM THE MANUFACTURER. GLOVE

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SECTION 09: PHYSICAL & CHEMICAL PROPERTIES

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BOILING POINT TEMPS: = 195.00F

MELTING/FREEZE POINT TEXT: N/A

SPECIFIC GRAVITY VALUES: = 1.0300

SPECIFIC GRAVITY TEXT: (H2O= 1)

VAPOR DENSITY VALUES: = 2.5000

VAPOR DENSITY TEXT: (AIR=1)

VAPOR PRESSURE TEXT: 29 @ 68 F

PERCENT VOLATILE BY VOLUME TEXT: 32.8

EVAPORATION RATE VALUES: = 1.50

EVAPORATION RATE TEXT: (BUTYL ACETATE=1)

SOLUBILITY IN WATER VALUES/UOM: = 0.8600

APPEARANCE: BROWN

ODOR: MILD

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SECTION 10: STABILITY & REACTIVITY

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STABILITY INDICATOR: Y

INCOMPATIBLE MATERIALS: HYDROFLUORIC ACID.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON DIOXIDE AND CARBON MONOXIDE

HAZARDOUS POLYMERIZATION INDICATOR: Y

HAZARDOUS POLYMERIZATION TEXT: MAY OCCUR.

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SECTION 11: TOXICOLOGICAL INFORMATION  
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CARCINOGENICITY: NOT A CARCINOGEN, NOT AVAILABLE IN NTP, IARC  
MONOGRAPHS. OSHA REGULATED TLV.

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SECTION 13: DISPOSAL CONSIDERATIONS  
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WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND  
FEDERAL REGULATIONS.

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SECTION 16: OTHER INFORMATION  
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SPECIAL PROTECTION (MECHANICAL): TO MAINTAIN EXPOSURE BELOW TLV(S)  
SAFE USE CATEGORY AND DESCRIPTION :

02 SOLVENTS - FLASH POINT: < 100 F

REGULATORY IMPACTS (REG) AND ADDITIONAL HEALTH HAZARD STATEMENTS (HHS) :  
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CAS#: 000067630 ISOPROPYL ALCOHOL

REG:

0001,0003,0012,0014,0017,0019,0020,0023,0026,0031,0032,0034  
0035,0037,0038,0039,0047,0056,0061,0063,0065,0068,0069,0083  
0084,0085,0087,0088

CAS#: 000107982 2-PROPANOL, 1-METHOXY-

REG:

0003,0012,0019,0031,0034,0038,0039,0056,0061,0063,0065,0083  
0084,0122

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#: 008001794 CASTOR OIL

REG:

0012

CAS#: 065996614 Pulp, cellulose

REG:

0012

CAS#: 068152818 Soybean oil, polymd., oxidized

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:

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GMBA: 000550673 GM OF CANADA - OSHAWA  
CISCO: 14001;  
STATUS :INACTIVE

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

GMBA: 000550679 SPO - FLINT DIVISIONAL HDQTRS.  
CISCO: 17101;  
STATUS :ACTIVE

GMBA: 000550681 SPO - FLINT PARTS  
CISCO: 17501;  
STATUS :ACTIVE

GMBA: 000550696 SPO - #19 PORTLAND  
CISCO: 17519;  
STATUS :INACTIVE

GMBA: 000550735 SPO - WILLOW RUN (BELLEVILLE)  
CISCO: 17587;  
STATUS :ACTIVE

GMBA: 000550741 MCD GROUP - WARREN  
CISCO: 18001;  
STATUS :ACTIVE

GMBA: 000550746 GMPTG - POWERTRAIN ENGINEERING  
CISCO: 18006;

STATUS :INACTIVE  
GMBA: 000550775 CHEVROLET CENTRAL OFFICE  
CISCO: 18501;  
STATUS :ACTIVE  
GMBA: 000550796 LAD - LANSING  
CISCO: 19300;  
STATUS :ACTIVE  
GMBA: 000550811 DELPHI E - FLINT WEST  
CISCO: 31023;  
STATUS :INACTIVE  
GMBA: 000550812 ALLISON GAS TURBINE - INDIANAPOLIS  
CISCO: 33010;  
STATUS :ACTIVE  
GMBA: 000550890 GM TRUCK GROUP-TPC WEST  
CISCO: 48200;  
STATUS :ACTIVE  
GMBA: 000550901 GMPTG - WARREN PLANT  
CISCO: 57099;  
STATUS :INACTIVE  
GMBA: 000550907 DELPHI E - ENG. CENTER - HENRIETTA  
CISCO: 58007;  
STATUS :ACTIVE  
GMBA: 000550908 AC DELCO SYSTEMS - DIVISIONAL HAZARDOUS  
CISCO: 58011;  
STATUS :ACTIVE  
GMBA: 000550957 CHEMICAL RISK MANAGEMENT  
CISCO: 89150;  
STATUS :ACTIVE  
GMBA: 000550960 GM DESERT PROVING GROUND  
CISCO: 91008;  
STATUS :ACTIVE  
GMBA: 000550964 GM TECHNICAL CENTER/ENGINEERING BUILDING  
CISCO: 94003;  
STATUS :ACTIVE  
GMBA: 000550965 GMPTG - DENVER VEHICLE EMISSIONS LAB  
CISCO: 94011;  
STATUS :INACTIVE  
GMBA: 000550966 GM PROVING GROUND - MILFORD  
CISCO: 94017;  
STATUS :INACTIVE  
GMBA: 000550976 GM TECHNICAL CENTER, TOTAL SITE  
CISCO: 96003;  
STATUS :INACTIVE  
GMBA: 000550977 NAO RESEARCH & DEVELOPMENT CENTER-WARREN  
CISCO: 98003;  
STATUS :INACTIVE  
GMBA: 000551424 SERVICE TECHNOLOGY HEADQUARTERS  
CISCO: 18400;  
STATUS :ACTIVE  
GMBA: 000551865 MANAGEMENT CENTER - WARREN  
CISCO: 85155;  
STATUS :INACTIVE  
GMBA: 000552489 GM OF CANADA - ST CATHARINES COMPON. PL.  
CISCO: 14014;  
STATUS :INACTIVE  
GMBA: 000552491 GM OF CANADA - ST CATH. GLENDALE WEST  
CISCO: 14034;

STATUS :INACTIVE  
GMBA: 000552492 GM OF CANADA - ST CATHARINES ENGINE (V6)  
CISCO: 14015;  
STATUS :INACTIVE  
GMBA: 000555103 TRUCK PRODUCT CENTER VALIDATION  
STATUS :INACTIVE  
GMBA: 000555104 TRUCK PRODUCT CENTER - WEST  
STATUS :INACTIVE  
GMBA: 000556298 GM TECHNICAL CENTER, TOTAL SITE  
STATUS :INACTIVE  
GMBA: 000556705 ENVIRONMENTAL SYSTEMS HELPDESK  
CISCO: 99004;  
STATUS :ACTIVE