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

DATE: 10/22/02  
TIME:

PAGE: 0001

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SECTION 01: CHEMICAL PRODUCT & COMPANY ID  
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PRODUCT PRIMARY NAME: VEHICLECARE RUST PENETRANT AND INHIBITOR  
ALL SYNONYMS : AC DELCO RUST PENETRANT AND INHIBITOR  
CN8239  
GENERAL PURPOSE PENETRANT/HVL (FORMER)  
GOODWRENCH HEAT VALVE LUBRICANT (FORMER)  
GOODWRENCH RUST PENETRANT AND INHIBITOR  
HEAT VALVE LUBRICANT  
LUBRICANT  
RUST PENETRANT AND INHIBITOR - HEAT VALVE LUBRICANT  
SA 4772  
TPW774  
VEHICLECARE RUST PENETRANT AND INHIBITOR  
V8-97-0013  
10-6000  
1052627  
123123123123  
1497770  
2622  
7005A SP CODE  
88900415

SAFE USE CATEGORY AND DESCRIPTION: 04 -METAL WORKING FLUIDS AND  
LUBRICANTS

LAST UPDATED DATE: 1998-03-27

MANUFACTURER'S ID (MID): 000539666  
MANUFACTURER'S NAME: GUARDSMAN PRODUCTS INC  
MANUFACTURER'S EMERGENCY PHONE NUMBER/TEXT: US 231-924-3950  
MANUFACTURER'S MAILING ADDRESS:

ALSO SEE GMBA #556365  
411 N. DARLING  
FREMONT MI 49412  
US

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SECTION 02: COMPOSITION & INGREDIENT INFO  
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CAS#	FORMULATION	W/V	CHEMICAL NAME
000108112	< 0.0000/ 5.0000%	W	2-PENTANOL, 4-METHYL-
000111762	R 10.0000/ 20.0000%	W	ETHANOL, 2-BUTOXY-
000544605	R 5.0000/ 15.0000%	W	9-OCTADECENOIC ACID (Z)-, AMMONIUM SALT
008030306	R 40.0000/ 50.0000%	W	BENZIN
068476868	R 5.0000/ 15.0000%	W	Petroleum gases, liquefied, sweete ned
989946207	< 0.0000/ 1.0000%	W	NON-HAZARDOUS INGREDIENTS

THRESHOLD LIMIT VALUE: ACGIH: 111762: 25 PPM; 8030306: 100 PPM; 108112:

25 PPM; 68476868: 800 PPM.

PERMISSIBLE EXPOSURE LIMIT: OSHA: 111762: 25 PPM; 8030306: 100 PPM;  
108112: 25 PPM; 68476868: 800 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
INGESTION PRIMARY ENTRY ROUTE INDICATOR =	N

EFFECTS OF OVEREXPOSURE - SKIN: SKIN IRRITATION OR ITCHING.

EFFECTS OF OVEREXPOSURE - EYE: EYE IRRITATION, REDNESS, PAIN OR SWELLING.

EFFECTS OF OVEREXPOSURE - INHALATION: INHALATION OF VAPORS MAY CAUSE HEADACHE, DIZZINESS, NAUSEA, RESPIRATORY IRRITATION, NASAL DISCOMFORT AND DISCHARGE.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NONE KNOWN

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SECTION 04: FIRST AID MEASURES  
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EMERGENCY FIRST AID PROCEDURES - SKIN: REMOVE CONTAMINATED CLOTHING AND SHOES. WASH WITH MILD SOAP AND WATER, APPLY SKIN CREAM FOR IRRITATION.

EMERGENCY FIRST AID PROCEDURES - EYES: FLUSH WITH RUNNING WATER FOR 15 MINUTES, HOLDING LID OPEN TO EXPOSE SURFACE. CONTACT PHYSICIAN.

EMERGENCY FIRST AID PROCEDURES - INHALATION: REMOVE TO FRESH AIR AT ONCE. APPLY ARTIFICIAL RESPIRATION IF NECESSARY, CONTACT PHYSICIAN IMMEDIATELY.

EMERGENCY FIRST AID PROCEDURES - INGESTION: DO NOT INDUCE VOMITING, CONTACT PHYSICIAN IMMEDIATELY.

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SECTION 05: FIRE-FIGHTING MEASURES  
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FLAMMABLE LEL: ND 0.00

FLAMMABLE UEL: ND 0.00

EXTINGUISHING MEDIA: FOAM, DRY CHEMICAL, CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES: USE SCBA. WATER IS NOT SUITABLE AS AN EXTINGUISHING MEDIA, BUT MAY BE USEFUL FOR COOLING NEARBY CONTAINERS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: AEROSOL CONTAINERS MAY BURST WHEN EXPOSED TO TEMPERATURES IN EXCESS OF 120 F.

HMIS CODES:

HMIS REACTIVITY CODE = 0

HMIS HEALTH CODE = 2

HMIS FLAMMABILITY CODE = 2

NFPA CODES:

NFPA FLAMMABILITY CODE = 2

NFPA HEALTH CODE = 2

NFPA REACTIVITY CODE = 0

AUTO-IGNITION TEXT: NOT DETERMINED.

FLASH POINT TEMPS: = 135.00F

SECTION 5 - OTHER INFORMATION: FLAME EXTENSION: > 12 // FLASHBACK: NO

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SECTION 06: ACCIDENTAL RELEASE MEASURES

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SPILL OR LEAK PROCEDURES: DANGER! LEAKING AEROSOLS ARE AN EXTREME FIRE AND EXPLOSION HAZARD! REMOVE IGNITION SOURCES, MOVE LEAKING CANS OUTDOORS AND EMPTY INTO SUITABLE CONTAINER BY DEPRESSING VALVE BUTTON.

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SECTION 07: HANDLING AND STORAGE

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT USE OR STORE NEAR OPENFLAME OR STRONG OXIDIZERS.

SECTION 7 - OTHER INFORMATION: AVOID BREATHING VAPORS OR MISTS; PROLONGED OR REPEATED SKIN CONTACT.

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SECTION 08: EXPOSURE CONTROLS - PROTECTION

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EYE PROTECTION: FACE SHIELD OR SAFETY GLASSES RECOMMENDED.

RESPIRATORY PROTECTION: NONE REQUIRED IN NORMAL USE.

VENTILATION: ADEQUATE TO MAINTAIN LEVEL BELOW ESTABLISHED STANDARDS.  
LOCAL EXHAUST: YES // RATE: >60 FPM // MECH (GENERAL) NO4

PERSONAL PROTECTIVE EQUIPMENT: NONE REQUIRED IN NORMAL USE.

WORKPLACE/HYGIENIC PRACTICES: BASIC GOOD HOUSEKEEPING. WASH HANDS BEFORE EATING OR SMOKING. SMOKE ONLY IN DESIGNATED AREAS.

PROTECTIVE GLOVES (SPECIFY TYPE): CHEMICAL RESISTANT.

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SECTION 09: PHYSICAL & CHEMICAL PROPERTIES

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BOILING POINT TEMPS: = 212.00F  
BOILING POINT TEXT: (INITIAL BOILING POINT)

SPECIFIC GRAVITY VALUES: = 0.9200  
SPECIFIC GRAVITY TEXT: TYPICAL

VAPOR DENSITY TEXT: NOT DETERMINED.

VAPOR PRESSURE TEXT: < 1

PERCENT VOLATILE BY WEIGHT TEXT: VOLUME: NOT DETERMINED.

SOLUBILITY IN WATER TEXT: WATER SOLUBLE: NO

PH OF PRODUCT AS RECEIVED (NEAT)/TEXT: NOT DETERMINED.

APPEARANCE: BLACK LIQUID.

ODOR: PETROLEUM ODOR.

SECTION 9 - OTHER INFORMATION: WATER REACTIVE: NO.

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SECTION 10: STABILITY & REACTIVITY

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STABILITY INDICATOR: Y

STABILITY - CONDITIONS TO AVOID: HEAT, SPARKS, OPEN FLAME.

INCOMPATIBLE MATERIALS: STRONG OXIDIZERS LIKE CHLORINE OR CONCENTRATED OXYGEN.

HAZARDOUS DECOMPOSITION PRODUCTS: VARIOUS OXIDES OF CARBON.

HAZARDOUS POLYMERIZATION INDICATOR: N

HAZARDOUS POLYMERIZATION - CONDITIONS TO AVOID: NONE KNOWN.

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SECTION 11: TOXICOLOGICAL INFORMATION

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CHRONIC EFFECTS: THIS PRODUCT CONTAINS 2-BUTOXYETHANOL..AVOID CONTACT. ANIMAL STUDIES INDICATE THAT EXPOSURE CAUSES RED BLOOD CELL DAMAGE, AND DAMAGE TO THE KIDNEYS AND LIVER. THESE EFFECTS HAVE NOT BEEN OBSERVED IN HUMANS, HOWEVER, AS A PRECAUTION, EXPOSURE TO LIQUIDS OR VAPORS SHOULD BE MINIMIZED. HEALTH STUDIES HAVE SHOWN THAT MANY CHEMICALS POSE HUMAN HEALTH RISKS WHICH MAY VARY FROM PERSON TO PERSON. PROLONGED OR REPEATED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS HAS BEEN LINKED TO PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATE CONCENTRATION AND INHALATION MAY BE HARMFUL OR FATAL.

CARCINOGENICITY: CARCINOGENIC LISTING : NTP: NO; IARC: NO; ACGIH: NO.

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SECTION 13: DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL METHOD: COMPLY WITH ALL APPLICABLE REGULATIONS.

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SECTION 14: TRANSPORT INFORMATION

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DOT INFORMATION: DOT PRECAUTIONARY LABEL: NOT REQUIRED. // PACKING GROUP: NOT ASSIGNED.

SHIPPING NAME: CONSUMER COMMODITY

HAZARD CLASS: ORM-D

SECTION 14 - OTHER INFORMATION: IMO ID NUMBER: UN1950 // IATA ID NUMBER: UN1950 // IMO HAZARD CLASS: 2.1 // IATA HAZARD CLASS: 2.1 // IMO SHIPPING NAME: AEROSOLS // IATA SHIPPING NAME: AEROSOLS, 30 // IMO PRECAUTIONARY LABEL: AEROSOLS STATEMENT. // IATA PRECAUTIONARY LABEL: FLAMMABLE GAS DIAMOND. // IMO PACKING GROUP: II // IATA PACKING GROUP: NONE ASSIGNED // IMO PAGE NUMBER: 2102 // MARINE POLLUTANT: NO.

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SECTION 15: REGULATORY INFORMATION  
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SECTION 15 - OTHER INFORMATION: SARA III - SECTION 313 TOXIC CHEMICAL:  
2-BUTOXYETHANOL CAS # 111762

SAFE USE CATEGORY AND DESCRIPTION :  
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04 METAL WORKING FLUIDS AND LUBRICANTS

REGULATORY IMPACTS (REG) AND ADDITIONAL HEALTH HAZARD STATEMENTS (HHS) :  
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CAS#: 000108112 2-PENTANOL, 4-METHYL-

REG:

0001,0003,0012,0017,0039,0042,0056,0061,0063,0065

CAS#: 000111762 ETHANOL, 2-BUTOXY-

REG:

0001,0003,0004,0012,0017,0019,0023,0031,0034,0038,0039,0042

0056,0061,0063,0065,0068,0069,0083,0084,0088

REG BY CATEGORY:

0020,0047,0048,0051,0066,0122

HHS:

LONG-TERM OVEREXPOSURE MAY RESULT IN BLOOD DISORDERS. TOXIC EFFECTS  
CAN OCCUR FROM SKIN CONTACT.

CAS#: 000544605 9-OCTADECENOIC ACID (Z)-, AMMONIUM SALT

REG:

0012

REG BY CATEGORY:

0047,0088

CAS#: 008030306 BENZIN

REG:

0001,0003,0004,0012,0014,0019,0031,0032,0034,0038,0039,0056

0061,0065,0084

REG BY CATEGORY:

0122

HHS:

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

CAS#: 068476868 Petroleum gases, liquefied, sweetened

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

GMBA: 000550772 GMPTG - FLINT V-8 PLANT  
CISCO: 18192;  
STATUS :ACTIVE

GMBA: 000550797 CLCD - BUICK CITY ASSEMBLY  
CISCO: 19400;  
STATUS :ACTIVE

GMBA: 000550821 DELPHI E - ADMIN. BUILDING - ANDERSON  
CISCO: 35001;  
STATUS :ACTIVE

GMBA: 000550897 GMPTG - WILLOW RUN PLANT  
CISCO: 57001;  
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: 000550966 GM PROVING GROUND - MILFORD  
CISCO: 94017;  
STATUS :ACTIVE

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

GMBA: 000551424 SERVICE TECHNOLOGY HEADQUARTERS

CISCO: 18400;  
STATUS :ACTIVE  
GMBA: 000555103 TRUCK PRODUCT CENTER VALIDATION  
STATUS :INACTIVE  
GMBA: 000556053 ADVANCED TECHNOLOGY VEHICLES  
STATUS :ACTIVE  
GMBA: 000556298 GM TECHNICAL CENTER, TOTAL SITE  
STATUS :ACTIVE  
GMBA: 000556705 ENVIRONMENTAL SYSTEMS HELPDESK  
CISCO: 99004;  
STATUS :ACTIVE  
GMBA: 000556732 POWERTRAIN, FLINT ENGINE SOUTH L6  
STATUS :ACTIVE  
GMBA: 000557289 GM TECHNICAL CENTER, R & D  
CISCO: 99010;  
STATUS :ACTIVE  
GMBA: 000557375 SPO - CONTRACT HOUSE  
CISCO: 99011;  
STATUS :ACTIVE