

1FID: 00228182
VER DATE: 1990-09-04

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

DATE: 10/22/02
TIME: 19:01:51
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SECTION 01: CHEMICAL PRODUCT & COMPANY ID

PRODUCT PRIMARY NAME: R-333 SPECIAL LUBRICANT
ALL SYNONYMS : E2381
GOODWRENCH SPECIAL LUBRICANT
MR GOODWRENCH PROP SHAFT GREASE
R-333
R-333 SPECIAL LUBRICANT
SPECIAL LUBRICANT
SPECIAL LUBRICANT - HIGH TEMPERATURE
TPW2057
12345879
230396 (OLD FID)
3106
9985830

MSDS SIGNED BY NAME: JAMES F. WIRTZ
MSDS SIGNED BY TITLE: VICE PRESIDENT

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

LAST UPDATED DATE: 1995-09-04

MANUFACTURER'S ID (MID): 000551064
MANUFACTURER'S NAME: ROY DEAN PRODUCTS COMPANY
MANUFACTURER'S EMERGENCY PHONE NUMBER/TEXT: US 313-451-2800 EMERGENCY
MANUFACTURER'S MAILING ADDRESS:
45800 MAST STREET
PLYMOUTH MI 48170-6007
US

CHEMICAL FAMILY NAME: PETROLEUM HYDROCARBON AND ADDITIVES

MOLECULAR FORMULA: BENTONITE, MINERAL OIL, PTFE

SECTION 02: COMPOSITION & INGREDIENT INFO

CAS#	FORMULATION	W/V	CHEMICAL NAME
001302789	= 12.0000/ 0.0000%	W	BENTONITE
009002840	= 15.0000/ 0.0000%	W	ETHYLENE, TETRAFLUORO-, POLYMER
064741895	= 73.0000/ 0.0000%	W	MINERAL OIL, PETROLEUM DISTILLATES , SOLVENT-REFINED (severe) LIGHT P ARAFFINIC

THRESHOLD LIMIT VALUE: 5 MG/M3

PERMISSIBLE EXPOSURE LIMIT: 5MG/M3 FOR OIL MIST IN AIR OSHA REGULATIONS
29 CFR 1910.1000.

CERCLA (SUPERFUND) REPORTABLE QUANTITY (LBS): N/A

SECTION 03: HAZARDS IDENTIFICATION

PRIMARY ENTRY ROUTE INDICATORS:

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

PRIMARY ROUTES OF ENTRY TEXT: INHALATION, SKIN CONTACT

EFFECTS OF OVEREXPOSURE: HUMAN HEALTH RISKS VARY FROM PERSON TO PERSON. AS A PRECAUTION, EXPOSURE TO LIQUIDS, VAPORS, MISTS AND FUMES SHOULD BE MINIMIZED. THIS PRODUCT HAS A LOW ORDER OF ACUTE ORAL TOXICITY, BUT MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION MAY CAUSE MILD TO SEVERE PULMONARY INJURY. TARGET ORGANS: SKIN, EYES, RESPIRATORY PASSAGES (HIGH TEMPERATURES ONLY) // ACUTE EFFECTS: POSSIBLE SKIN AND EYE IRRITATION. POSSIBLE RESPIRATORY PASSAGE IRRITATION AT HIGH TEMPERATURES

EFFECTS OF OVEREXPOSURE - SKIN: PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE SKIN IRRITATION.

EFFECTS OF OVEREXPOSURE - EYE: PRODUCT CONTACTING THE EYES MAY CAUSE EYE IRRITATION.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NONE

SECTION 3 - OTHER INFORMATION: N/A

SECTION 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES - GENERAL: EYE CONTACT: FLUSH WITH CLEAR WATER UNTIL IRRITATION SUBSIDES. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND WASH THOROUGHLY WITH WARM WATER. IF INJECTED UNDER SKIN OR INGESTED, CALL PHYSICIAN IMMEDIATELY.

EMERGENCY FIRST AID PROCEDURES - SKIN: WASH WITH SOAP AND WATER. REMOVE ANY CONTAMINATED CLOTHING AND WASH, WITH SOAP AND WARM WATER.

EMERGENCY FIRST AID PROCEDURES - EYES: FLUSH THOROUGHLY WITH CLEAR WATER FOR 15 MINUTES OR UNTIL IRRITATION SUBSIDES. CONTACT PHYSICIAN IF IRRITATION PERSISTS.

EMERGENCY FIRST AID PROCEDURES - INHALATION: MOVE TO FRESH AIR AND REFER TO A PHYSICIAN FOR TREATMENT.

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

SECTION 05: FIRE-FIGHTING MEASURES

FLAMMABLE LEL: = 1.00

FLAMMABLE UEL: = 7.00

EXTINGUISHING MEDIA: CARBON DIOXIDE, FOAM, DRY CHEMICAL, WATER SPRAY

SPECIAL FIRE FIGHTING PROCEDURES: AVOID SMOKE INHALATION. WATER OR FOAM MAY CAUSE FROTHING. COOL EXPOSED CONTAINER WITH WATER. USE AIR-SUPPLIED RESCUE EQUIPMENT FOR ENCLOSED AREAS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE. DO NOT STORE OR MIX WITH STRONG OXIDANTS. EMPTY CONTAINERS RETAIN RESIDUE. DO NOT CUT, DRILL,

GRIND OR WELD, AS THEY MAY EXPLODE.

NFPA CODES:

NFPA FLAMMABILITY CODE =	1
NFPA HEALTH CODE =	2
NFPA REACTIVITY CODE =	1

FLASH POINT TEMPS: = 370.00F

FLASH POINT TEXT: 370F COC

FLASH POINT METHOD: COC

SECTION 06: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: WIPE OR SCRAPE UP SPILLAGE AND PLACE IT IN A CONTAINER FOR DISPOSAL. WASH WALKING SURFACES THOROUGHLY WITH DETERGENT AND WATER TO REDUCE SLIPPING HAZARD. KEEP PETROLEUM PRODUCTS OUT OF SEWERS AND WATER COURSES. ADVISE AUTHORITIES IF PRODUCT HAS OR MAY ENTER SEWERS AND WATER COURSES.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORAGE SEGREGATION: NOT NEEDED. EXERCISE ORDINARY CARE IN HANDLING CHEMICALS.

SECTION 7 - OTHER INFORMATION: OTHER PRECAUTIONS: KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT HANDLE OR STORE NEAR HEAT, SPARKS, FLAME OR STRONG OXIDANTS. AVOID CONTAMINATION OF CIGARETTES OR OTHER TOBACCO PRODUCTS.' WASH HANDS THOROUGHLY BEFORE SMOKING. USERS SHOULD BE ALERT TO THE POSSIBILITY THAT VERY SMALL PERCENTAGES OF THE POPULATION MAY DISPLAY UNEXPECTED ALLERGIC SKIN REACTIONS TO OTHERWISE INNOCUOUS INDUSTRIAL CHEMICALS AND RAW MATERIALS.

SECTION 08: EXPOSURE CONTROLS - PROTECTION

EYE PROTECTION: SAFETY GLASSES RECOMMENDED

RESPIRATORY PROTECTION: NOT REQUIRED UNLESS MISTS, SMOKE OR VAPORS ARE PRODUCED AT HIGH TEMPERATURES.

VENTILATION: NONE REQUIRED UNLESS MISTS, SMOKE OR VAPORS ARE PRODUCED AT HIGH TEMPERATURES

PERSONAL PROTECTIVE EQUIPMENT: USE OIL RESISTANT APRON, IF NEEDED.

WORKPLACE/HYGIENIC PRACTICES: AVOID CONTAMINATION OF CIGARETTES OR OTHER TOBACCO PRODUCTS. EXERCISE ORDINARY MEASURES OF PERSONAL HYGIENE.

SECTION 8 - OTHER INFORMATION: NONE NEEDED

PROTECTIVE GLOVES (SPECIFY TYPE): OIL RESISTANT GLOVES RECOMMENDED, ESPECIALLY TO AVOID PROLONGED OR REPEATED SKIN CONTACT.

SECTION 09: PHYSICAL & CHEMICAL PROPERTIES

ANALYTICAL VOC WITHOUT WATER: N/A

THEORETICAL VOC WITHOUT WATER: N/A

BOILING POINT TEMPS: > 550.00F

BOILING POINT TEXT: 550F

SPECIFIC GRAVITY VALUES: = 1.0280

SPECIFIC GRAVITY TEXT: R 0.93-0.94

VAPOR DENSITY VALUES: > 5.0000

VAPOR DENSITY TEXT: AIR = 1

VAPOR PRESSURE VALUES/UOM: < 0.0100MMHG

VAPOR PRESSURE TEXT: 0 MMHG

PERCENT VOLATILE BY VOLUME TEXT: NIL

PERCENT VOLATILE BY WEIGHT TEXT: BY VOLUME: NIL

PERCENT SOLID BY WEIGHT TEXT: N/A

EVAPORATION RATE VALUES: < 0.01

EVAPORATION RATE TEXT: 0.01 (N-BUTYL ACETATE=1)

SOLUBILITY IN WATER TEXT: INSOLUBLE

APPEARANCE: SMOOTH, BROWN GREASE

ODOR: MINERAL OIL ODOR

PHYSICAL STATE TEXT: GREASE

SECTION 10: STABILITY & REACTIVITY

STABILITY INDICATOR: Y

STABILITY - CONDITIONS TO AVOID: N/A

STABILITY - TEXT: YES

INCOMPATIBLE MATERIALS: AVOID CONTACT WITH STRONG OXIDANTS, SUCH AS LIQUID CHLORINE AND CONCENTRATED OXYGEN.

HAZARDOUS DECOMPOSITION PRODUCTS: BURNING MAY PRODUCE CARBON MONOXIDE, AS WELL AS SMALL AMOUNTS OF OTHER TOXIC FUMES.

HAZARDOUS POLYMERIZATION INDICATOR: N

HAZARDOUS POLYMERIZATION - CONDITIONS TO AVOID: N/A

HAZARDOUS POLYMERIZATION TEXT: WILL NOT OCCUR.

SECTION 11: TOXICOLOGICAL INFORMATION

CHRONIC EFFECTS: NONE KNOWN.

CARCINOGENICITY: LISTED AS A CARCINOGEN BY NTP, IARC, OR OSHA 1910(Z): NO THIS PRODUCT IS NOT CONSIDERED A HUMAN CARCINOGEN BY ANY RECOGNIZED SOURCE

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: ASSURE CONFORMITY WITH APPLICABLE DISPOSAL REGULATIONS. CONSULT LOCAL, STATE AND FEDERAL REGULATIONS APPLICABLE TO YOUR AREA.

SECTION 16: OTHER INFORMATION

RCRA HAZARDOUS WASTE NUMBER TEXT: N/A

LOCAL EXHAUST: USE TO CAPTURE FUMES AND VAPORS.

SPECIAL PROTECTION: NONE NEEDED

SPECIAL PROTECTION (MECHANICAL): NORMAL
SAFE USE CATEGORY AND DESCRIPTION :

04 METAL WORKING FLUIDS AND LUBRICANTS

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

CAS#: 001302789 BENTONITE

REG:
0012

CAS#: 009002840 ETHYLENE, TETRAFLUORO-, POLYMER

REG:
0012,0061

CAS#: 064741895 MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-REFINED (se

REG:
0012,0107

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: 000550865 DELPHI SAGINAW STEERING SYS. - SAGINAW
CISCO: 44001;
STATUS :ACTIVE

GMBA: 000550869 SAGINAW DIVISION - THREE RIVERS PLANT
CISCO: 44050;
STATUS :INACTIVE

GMBA: 000550877 NATP - PONTIAC CENTRAL OFFICE
CISCO: 48029;
STATUS :ACTIVE

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

GMBA: 000550960 GM DESERT PROVING GROUND
CISCO: 91008;
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: 000551473 DELPHI C - ENG. TECH. CENTER - DAYTON
STATUS :ACTIVE

GMBA: 000555103 TRUCK PRODUCT CENTER VALIDATION
STATUS :ACTIVE

GMBA: 000555104 TRUCK PRODUCT CENTER - WEST
STATUS :INACTIVE

GMBA: 000556298 GM TECHNICAL CENTER, TOTAL SITE
STATUS :ACTIVE

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

GMBA: 000557289 GM TECHNICAL CENTER, R & D
CISCO: 99010;
STATUS :ACTIVE

