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MSDS

Common Name: WD-40 BULK LIQUID**Manufacturer:** WD-40**MSDS Revision Date:** 3/1/2010**Grainger Item Number(s):** 1KWH6, 4KTU6, 4KTU7, 5A283, 6A546**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

WD-40 (R*)

WD-40 COMPANY

1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



MANUFACTURER: WD-40 COMPANY

ADDRESS:

1061 CUDAHY PLACE (92110)

P.O. BOX 80607

SAN DIEGO, CALIFORNIA 92138-0607

USA

TELEPHONE:

EMERGENCY ONLY: 1-888-324-7596 (PROSAR)

INFORMATION: 1-888-324-7596

CHEMICAL SPILLS:

(CHEMTREC): 1-800-424-9300
(INTERNATIONAL CALLS): 1-703-527-3887

CHEMICAL NAME: ORGANIC MIXTURE

TRADE NAME: WD-40 BULK LIQUID

PRODUCT USE:
LUBRICANT, PENETRANT, DRIVES OUT MOISTURE, REMOVES AND PROTECTS SURFACES
FROM CORROSION

MSDS DATE OF PREPARATION: 3/11/10

2 - HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

DANGER!

HARMFUL OR FATAL IF SWALLOWED. COMBUSTIBLE LIQUID. IF SWALLOWED, MAY BE ASPIRATED AND CAUSE LUNG DAMAGE. MAY CAUSE EYE IRRITATION. AVOID EYE CONTACT. USE WITH ADEQUATE VENTILATION. KEEP AWAY FROM HEAT, SPARKS AND ALL OTHER SOURCES OF IGNITION.

SYMPTOMS OF OVEREXPOSURE:

INHALATION:

HIGH CONCENTRATIONS MAY CAUSE NASAL AND RESPIRATORY IRRITATION AND CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS HEADACHE, DIZZINESS AND NAUSEA. INTENTIONAL ABUSE MAY BE HARMFUL OR FATAL.

SKIN CONTACT:

PROLONGED AND/OR REPEATED CONTACT MAY PRODUCE MILD IRRITATION AND DEFATTING WITH POSSIBLE DERMATITIS.

EYE CONTACT: CONTACT MAY BE IRRITATING TO EYES. MAY CAUSE REDNESS AND TEARING.

INGESTION:

THIS PRODUCT HAS LOW ORAL TOXICITY. SWALLOWING MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA. THIS PRODUCT IS AN ASPIRATION HAZARD. IF SWALLOWED, CAN ENTER THE LUNGS AND MAY CAUSE CHEMICAL PNEUMONITIS, SEVERE LUNG DAMAGE AND DEATH.

CHRONIC EFFECTS: NONE EXPECTED.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

PREEXISTING EYE, SKIN AND RESPIRATORY CONDITIONS MAY BE AGGRAVATED BY EXPOSURE.

SUSPECTED CANCER AGENT:

YES ()

NO (X)

3 - COMPOSITION/INFORMATION ON INGREDIENTS



INGREDIENT PERCENT	CAS #	WEIGHT
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ALIPHATIC HYDROCARBON	64742-47-8	45-50
PETROLEUM BASE OIL	64742-58-1 64742-53-6 64742-56-9 64742-65-0	<25
LVP ALIPHATIC HYDROCARBON	64742-47-8	12-18
SURFACTANT	PROPRIETARY	<2
NON-HAZARDOUS INGREDIENTS	MIXTURE	<10
SEE SECTION 8 FOR EXPOSURE LIMITS		

4 - FIRST AID MEASURES



INGESTION (SWALLOWED):

ASPIRATION HAZARD. DO NOT INDUCE VOMITING. CALL PHYSICIAN, POISON CONTROL CENTER OR THE WD-40 SAFETY HOTLINE AT 1-888-324-7596 IMMEDIATELY.

EYE CONTACT:

FLUSH THOROUGHLY WITH WATER. REMOVE CONTACT LENSES IF PRESENT AFTER THE FIRST 5 MINUTES AND CONTINUE FLUSHING FOR SEVERAL MORE MINUTES. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

SKIN CONTACT:

WASH WITH SOAP AND WATER. IF IRRITATION DEVELOPS AND PERSISTS, GET MEDICAL ATTENTION.

INHALATION (BREATHING):

IF IRRITATION IS EXPERIENCED, MOVE TO FRESH AIR. GET MEDICAL ATTENTION IF IRRITATION OR OTHER SYMPTOMS DEVELOP AND PERSIST.

5 - FIRE FIGHTING MEASURES



EXTINGUISHING MEDIA:

USE WATER FOG, DRY CHEMICAL, CARBON DIOXIDE OR FOAM. DO NOT USE WATER JET OR FLOODING AMOUNTS OF WATER. BURNING PRODUCT WILL FLOAT ON THE SURFACE AND SPREAD FIRE.

SPECIAL FIRE FIGHTING PROCEDURES:

FIREFIGHTERS SHOULD ALWAYS WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. COOL FIRE-EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

COMBUSTIBLE LIQUID AND VAPOR. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG SURFACES TO REMOTE IGNITION SOURCES AND FLASH BACK.

6 - ACCIDENTAL RELEASE MEASURES



WEAR APPROPRIATE PROTECTIVE CLOTHING (SEE SECTION 8). ELIMINATE ALL SOURCES OF IGNITION AND VENTILATE AREA.

CONTAIN AND COLLECT LIQUID WITH AN INERT ABSORBENT AND PLACE IN A CONTAINER FOR DISPOSAL. CLEAN SPILL AREA THOROUGHLY. REPORT SPILLS TO AUTHORITIES AS REQUIRED.

7 - HANDLING AND STORAGE



HANDLING:

AVOID CONTACT WITH EYES. AVOID PROLONGED CONTACT WITH SKIN. AVOID BREATHING VAPORS OR AEROSOLS.

USE WITH ADEQUATE VENTILATION. KEEP AWAY FROM HEAT, SPARKS, HOT SURFACES AND OPEN FLAMES. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING. KEEP CONTAINERS CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN.

STORAGE:

STORE IN A COOL, WELL-VENTILATED AREA, AWAY FROM INCOMPATIBLE MATERIALS. NFPA 30 CLASS II LIQUID.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION



CHEMICAL

OCCUPATIONAL EXPOSURE LIMITS

ALIPHATIC HYDROCARBON

1200 MG/M3 TWA (MANUFACTURER RECOMMENDED)

PETROLEUM BASE OIL

5 MG/M3 (INHALABLE) TWA
5 MG/M3 TWA OSHA PEL

LVP ALIPHATIC HYDROCARBON

1200 MG/M3 TWA (MANUFACTURER RECOMMENDED)

SURFACTANT

NONE ESTABLISHED

NON-HAZARDOUS INGREDIENTS

NONE ESTABLISHED

THE FOLLOWING CONTROLS ARE RECOMMENDED FOR NORMAL CONSUMER USE OF THIS PRODUCT:

ENGINEERING CONTROLS: USE IN A WELL-VENTILATED AREA.

PERSONAL PROTECTION:

EYE PROTECTION: AVOID EYE CONTACT. SAFETY GLASSES OR GOGGLES RECOMMENDED.

SKIN PROTECTION:

AVOID PROLONGED SKIN CONTACT. CHEMICAL RESISTANT GLOVES RECOMMENDED FOR OPERATIONS WHERE SKIN CONTACT IS LIKELY.

RESPIRATORY PROTECTION: NONE NEEDED FOR NORMAL USE WITH ADEQUATE VENTILATION.

FOR BULK PROCESSING OR WORKPLACE USE THE FOLLOWING CONTROLS ARE RECOMMENDED:

ENGINEERING CONTROLS:

USE ADEQUATE GENERAL AND LOCAL EXHAUST VENTILATION TO MAINTAIN EXPOSURE LEVELS BELOW THAT OCCUPATIONAL EXPOSURE LIMITS.

PERSONAL PROTECTION:

EYE PROTECTION: SAFETY GOGGLES RECOMMENDED WHERE EYE CONTACT IS POSSIBLE.

SKIN PROTECTION: WEAR CHEMICAL RESISTANT GLOVES.

RESPIRATORY PROTECTION:

NONE REQUIRED IF VENTILATION IS ADEQUATE. IF THE OCCUPATIONAL EXPOSURE LIMITS ARE EXCEEDED, WEAR A NIOSH APPROVED RESPIRATOR. RESPIRATOR SELECTION

AND USE SHOULD BE BASED ON CONTAMINANT TYPE, FORM AND CONCENTRATION. FOLLOW OSHA 1910.134, ANSI Z88.2 AND GOOD INDUSTRIAL HYGIENE PRACTICE.

WORK/HYGIENE PRACTICES: WASH WITH SOAP AND WATER AFTER HANDLING.

9 - PHYSICAL AND CHEMICAL PROPERTIES



BOILING POINT: 361 - 369 DEG. F (183 - 187 DEG. C)

SPECIFIC GRAVITY: 0.8 - 0.82 @ 60 DEG. F

SOLUBILITY IN WATER: INSOLUBLE

pH: NOT APPLICABLE

VAPOR PRESSURE: 1 PSI @ 38 DEG. C (100 DEG. F) ASTM D323

VAPOR DENSITY: GREATER THAN 1

PERCENT VOLATILE: 70-75%

VOC: 412 GRAMS/LITER (49.5%)

COEFFICIENT OF WATER/OIL DISTRIBUTION: NOT DETERMINED

APPEARANCE/ODOR: LIGHT AMBER LIQUID/MILD ODOR

FLASH POINT: 122 DEG. F (49 DEG. C) TAG OPEN CUP

FLAMMABLE LIMITS (SOLVENT PORTION):

LEL: 0.6%

UEL: 8.0%

POUR POINT: -63 DEG. C (-81.4 DEG. F) ASTM D-97

KINEMATIC VISCOSITY: 2.79-2.96 CST @ 100 DEG. F

10 - STABILITY AND REACTIVITY



STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

CONDITIONS TO AVOID: AVOID HEAT, SPARKS, FLAMES AND OTHER SOURCES OF IGNITION.

INCOMPATIBILITIES: STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND CARBON DIOXIDE.

11 - TOXICOLOGICAL INFORMATION



THE ORAL TOXICITY OF THIS PRODUCT IS ESTIMATED TO BE GREATER THAN 5,000 MG/KG BASED ON AN ASSESSMENT OF THE INGREDIENTS. THIS PRODUCT IS NOT CLASSIFIED AS TOXIC BY ESTABLISHED CRITERIA. IT IS AN ASPIRATION HAZARD.

NONE OF THE COMPONENTS OF THIS PRODUCT IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN OR IS CONSIDERED A REPRODUCTIVE HAZARD.

12 - ECOLOGICAL INFORMATION



NO DATA IS CURRENTLY AVAILABLE.

13 - DISPOSAL CONSIDERATIONS



IF THIS PRODUCT BECOMES A WASTE, IT WOULD BE EXPECTED TO MEET THE CRITERIA OF A RCRA IGNITABLE HAZARDOUS WASTE (D001). HOWEVER, IT IS THE RESPONSIBILITY OF THE GENERATOR TO DETERMINE AT THE TIME OF DISPOSAL THE PROPER CLASSIFICATION AND METHOD OF DISPOSAL. DISPOSE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

14 - TRANSPORTATION INFORMATION



DOT SURFACE SHIPPING DESCRIPTION:

EXCEPTED FROM HAZMAT (49 CFR 173.150 (F)) IN NON-BULK PACKAGINGS.

BULK PACKAGINGS:

NA1993, COMBUSTIBLE LIQUID, N.O.S. (CONTAINS PETROLEUM DISTILLATES), PG III

IMDG SHIPPING DESCRIPTION: UN1268, PETROLEUM DISTILLATES, N.O.S. 3, PG III

15 - REGULATORY INFORMATION



U.S. FEDERAL REGULATIONS:

CERCLA 103 REPORTABLE QUANTITY:

THIS PRODUCT IS NOT SUBJECT TO CERCLA REPORTING REQUIREMENTS, HOWEVER, OIL SPILLS ARE REPORTABLE TO THE NATIONAL RESPONSE CENTER UNDER THE CLEAN WATER ACT AND MANY STATES HAVE MORE STRINGENT RELEASE REPORTING REQUIREMENTS. REPORT SPILLS REQUIRED UNDER FEDERAL, STATE AND LOCAL REGULATIONS.

SARA TITLE III:

HAZARD CATEGORY FOR SECTION 311/312: ACUTE HEALTH, FIRE HAZARD

SECTION 313 TOXIC CHEMICALS:

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO SARA TITLE III

SECTION 313 REPORTING REQUIREMENTS: NONE

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (TPQ): NONE

EPA TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:

ALL OF THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): THIS PRODUCT DOES NOT CONTAIN CHEMICALS REGULATED UNDER CALIFORNIA PROPOSITION 65.

VOC REGULATIONS:

THIS PRODUCT COMPLIES WITH THE CONSUMER PRODUCT VOC LIMITS OF CARB, THE US EPA AND STATES ADOPTING THE OTC VOC RULES.

CANADIAN ENVIRONMENTAL PROTECTION ACT:

ONE OF THE COMPONENTS IS LISTED ON THE NDSL. ALL OF THE OTHER INGREDIENTS ARE LISTED ON THE CANADIAN DOMESTIC SUBSTANCES LIST OR EXEMPT FROM

NOTIFICATION.

CANADIAN WHMIS CLASSIFICATION: CLASS B-3 (COMBUSTIBLE LIQUID)

THIS MSDS HAS BEEN PREPARED ACCORDING TO THE CRITERIA OF THE CONTROLLED PRODUCTS REGULATION (CPR) AND THE MSDS CONTAINS ALL OF THE INFORMATION REQUIRED BY THE CPR.

16 - OTHER INFORMATION



HMIS HAZARD RATING:

HEALTH 1 (SLIGHT HAZARD)

FIRE HAZARD 2 (MODERATE HAZARD)

REACTIVITY 0 (MINIMAL HAZARD)

REVISION DATE: MARCH 2010

SUPERCEDES: JANUARY 2010

SIGNATURE:

REVISION DATE: MARCH 2010

TITLE: DIRECTOR OF GLOBAL QUALITY ASSURANCE

SUPERSEDES: AUGUST 2009