

Store labeled and sealed containers in a cool, dry, well-ventilated area. Prevent water or moist air from entering storage tanks or containers. Do not cut or weld on empty or full drums. Aluminum equipment should not be used for storage and/or transfer.

Vapors are heavier than air and will collect in low areas.

Contact with aluminum parts in a pressurizable fluid system may cause violent reactions. Consult equipment supplier for further information.

Do not remove or deface label.

IX - SPILL LEAK AND DISPOSAL PRACTICES

If spill occurs indoors, turn off air conditioning and/or heating system, to prevent vapors from contaminating entire building.

Recovered liquids may be sent to a licensed reclaimer or incineration facility. Contaminated material must be disposed of in a permitted waste management facility. Consult federal, state, or local disposal authorities for approved procedures.

None when transported by land or water. OMT-A when transported by air.

X - TRANSPORTATION

None

Label as required by OSHA Hazard Communication Standard, and any applicable state and local regulations. OMT-A when transported by air.

For further information

Contact Vulcan Chemicals
 Technical Service Department
 P.O. Box 7689
 Birmingham, AL 35253-0689
 205/877-3459
 8 AM to 5 PM Central Time
 Monday Through Friday
 For Emergency Information Call: 318/524-5751 (24 hours)

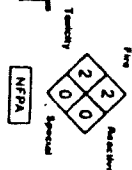
November 15, 1985

Form 3239-560



WD-40

MATERIAL SAFETY DATA SHEET



1364

I. PRODUCT IDENTIFICATION

Manufacturer: WD-40 Company
 Address: 1061 Cudahy Place (921110)
 P.O. Box 80607
 San Diego, California
 92138-9021

Emergency Telephone: (619) 275-1400
 Chemical Name: Organic Mixture
 Trade Name: WD-40 Bulk Liquid

II. HAZARDOUS INGREDIENTS

Chemical Name	CAS Number	%	Exposure Limit
Aliphatic Petroleum Distillates	8052-41-3	70	ACGIH/OSHA 100 ppm (PEL)
Petroleum Base Oil	8012-95-1	20	5 mg/m ³ (TWA)
Corrosion Inhibitor	Proprietary Mixture	< 10	5 mg/m ³ (TWA)
Wetting Agent	Proprietary Mixture	< 5	500 ppm (PEL)
Fluorocarbon	Proprietary Mixture	< 5	NDA

III. PHYSICAL DATA

Billing Point:	300°F (minimum)	Evaporation Rate:	Not determined
Vapor Density (air = 1):	Greater than 1	Vapor Pressure:	Not determined
Solubility in Water:	Insoluble	Appearance:	Cloudy light amber
Specific Gravity (H ₂ O = 1):	800 @ 70°F	Odor:	Characteristic odor
Percent Volatile (volume):	74%		

IV. FIRE AND EXPLOSION

Flash Point:		Tag Open Cup 110°F (minimum)
Flammable Limits:		(solvent portion) (LeL) 1.0% (UeL) 6.0%
Extinguishing Media:		CO ₂ , Dry Chemical, Foam
Special Fire Fighting Procedures:		None
Unusual Fire and Explosion Hazards:		None

V. HEALTH HAZARD INFORMATION

Threshold Limit Value
 Aliphatic Petroleum Distillates (Standard solvent) lowest TLV (ACGIH 100 ppm.)

Symptoms of Overexposure
 Inhaled Vapor: May cause anesthesia, headache, dizziness, nausea and upper respiratory irritation.
 Skin Contact: May cause drying of skin and/or irritation.
 Eye Contact: May cause irritation, tearing and redness.
 Swallowed: May cause irritation, nausea, vomiting and diarrhea.
 Inhalation into Lungs: May cause chemical pneumonitis.

First Aid Emergency Procedures
 Swallow: Do not induce vomiting, seek medical attention.
 Eye Contact: Immediately flush eyes with large amounts of water for 15 minutes.
 Skin Contact: Wash with soap and water.
 Inhaled: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Suspected Cancer Agent
 Yes No X

The components in this mixture have been found to be noncarcinogenic by IARC and NTP

SECTION V - HEALTH HAZARD DATA

Standard Solvent (lowest TLV of all components) (ACGIH, 100ppm)
 TLV's for: Irritation: Drying of skin, eye irritation, inhalation of vapor may cause
 dandruff, headache, dizziness, nausea & upper respiratory irritation. Swallowing
 can cause irritation, nausea, vomiting and diarrhea. Aspiration into lungs can cause
 chemical pneumonia.
 For skin contact: Wash with soap and water, apply skin cream. For inhalation, move
 to fresh air. Give artificial respiration if necessary. If breathing is difficult,
 give oxygen.

Carcinogen Information: N/A

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE	CONDITIONS TO AVOID	N/A
	STABLE		
INCOMPATIBILITY (list all if known)		Strong oxidizing materials	
HAZARDOUS DECOMPOSITION PRODUCTS		N/A	
HAZARDOUS POLYMERIZATION	MAY OCCUR	CONDITIONS TO AVOID	N/A
	WILL NOT OCCUR		

SECTION VII - SPILL OR LEAK PROCEDURES

SPILLS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
 Spills unlikely from cans. Leaking cans should be placed in plastic bag or open
 pail until pressure had dissipated.
 WASTE DISPOSAL METHOD: Empty spray cans should not be punctured or incinerated, bury
 in land fill. Liquid should be incinerated or buried in land fill.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)	N/A
VENTILATION	Local exhaust Sufficient to keep solvent vapor less than TLV.
PROTECTIVE CLOVES	None required
OTHER PROTECTIVE EQUIPMENT	None required

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
 Keep from source of ignition. Do not take internally. Avoid excessive inhalation
 of spray particles. Do not store above 120°F.
 OTHER PRECAUTIONS: Do not incinerate or puncture containers

Revision Date November 25, 1985 Supersedes September 1, 1984

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

Manufacturer: WDC-40 Company
 Address: 1061 Cudahy Place (921110)
 P.O. Box 80607
 San Diego, California
 92138-9021

Emergency Telephone: (312) 373-1111
 Chemical Name: CREAM
 Trade Name: WDC-40

II. HAZARDOUS INGREDIENTS

Chemical Name	CAS Number	%	Exposure Limit ACGIH/OSHA
Aromatic Petroleum Distillates	8052-41-3	50	100 ppm (TWA)
2-Tolylpropanone Propellant	68476-85-7	25	1000 ppm (PEL)
Propylene Isomer	8012-95-1	> 15	5 ppm (TWA)
Flaming Agent	Proprietary Mixture	< 10	5 ppm (TWA)
Emulsifier	Proprietary Mixture	< 5	500 ppm (PEL)
	Proprietary Mixture	< 5	

III. PHYSICAL DATA

Boiling Point:	NA	Evaporation Rate:	Not Determined
Vapor Density (air = 1)	Greater than 1	Vapor Pressure:	50 PSI at 70°F
Solubility in Water:	Insoluble	Appearance:	Light amber
Specific Gravity (H ₂ O = 1)	710 @ 70°F	Odor:	Characterless
Percent Volatile (volume)	80%		

IV. FIRE AND EXPLOSION

Flash Point: Not Determined
 Ignition Temperature: Not Determined
 Lower Explosive Limit: Not Determined
 Upper Explosive Limit: Not Determined
 Self-Heating: Not Determined
 Polymerization: Not Determined
 Incompatible: Not Determined
 Hazardous Reaction: Not Determined
 Oxidizing: Not Determined
 Corrosive: Not Determined
 Toxic: Not Determined
 Considered "extremely flammable" under Consumer Product Safety Commission regulations.

V. HEALTH HAZARD INFORMATION

Threshold Limit Value
 Aromatic Petroleum Distillates (Standard solvent) lowest TLV (ACGIH 100 ppm)
 Symptoms of Overexposure

TLV: 100 ppm
 Irritation: Drying of skin, eye irritation, inhalation of vapor may cause
 dandruff, headache, dizziness, nausea & upper respiratory irritation. Swallowing
 can cause irritation, nausea, vomiting and diarrhea. Aspiration into lungs can cause
 chemical pneumonia.
 For skin contact: Wash with soap and water, apply skin cream. For inhalation, move
 to fresh air. Give artificial respiration if necessary. If breathing is difficult,
 give oxygen.
 The components of this mixture are in ten hour 100% concentration.

VI. REACTIVITY DATA

Stability: Stable X Unstable _____
 Conditions to avoid: NA
 Incompatibility: Strong oxidizing materials
 Hazardous decomposition products: NA
 Hazardous polymerization: NA
 May occur _____ Will not occur X

VII. SPILL OR LEAK PROCEDURES

Spill Response Procedures
 Absorb small quantities with sand, earth, sawdust. Large quantities pump into tank.
 Waste Disposal Method
 Incinerate liquid, bury saturated absorbent in land fill. Dispose of in accordance with local, state and federal regulations.

VIII. SPECIAL HANDLING INFORMATION

Ventilation: Sufficient to keep solvent vapor less than TLV.
 Respiratory Protection: None required.
 Protective Gloves: None required.
 Eye Protection: None required.
 Other Protective Equipment: None required.

IX. SPECIAL PRECAUTIONS

Keep from open flame, do not take internally. Avoid excessive inhalation of spray particles.

X. TRANSPORTATION DATA

Domestic Surface
 Description: Petroleum Distillate Mixture
 Hazard Class: Combustible Liquid
 ID No.: UN 1268
 Label Required: NONE, for containers less than 100 Gallons
 Domestic Air
 Description: Petroleum Distillate Mixture
 Hazard Class: Combustible Liquid
 Label Required: NONE, for containers less than 110 Gallons

SIGNATURE: R. Miles *R. Miles*

REVISION DATE: April 1986 TITLE: Technical Director

NA = Not applicable NDA = No data available < = Less than > = More than

SUPERSEDES: December 1985

We believe the statements, technical information and recommendations contained herein are reliable. However, the data is provided without warranty, expressed or implied. It is the users responsibility both to determine safe conditions for use of this product and assume loss, damage or expense, direct or consequential, arising from its misuse. Blotter using product, read label.

U.S. DEPARTMENT OF LABOR
 Occupational Safety and Health Administration
MATERIAL SAFETY DATA SHEET
 SPRAY



SECTION I
 MANUFACTURER'S NAME: MD-40 Company
 ADDRESS: 1061 Cuddey Pl (92110) P.O. Box 80607, San Diego, California 92138-9021
 TRADE NAME AND SYNONYMS: ORGANIC MIXTURE
 CHEMICAL FAMILY: N/A
 EMERGENCY TELEPHONE NO.: 619/275-1400
 FORMULA: N/A

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	%	TLV (uh/ml)	ALLOYS AND METALLIC COATINGS	%	TLV (uh/ml)
PAINTS, PRESERVATIVES, & SOLVENTS					
not applicable			BASIC METAL	not applicable	
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILTER METAL		
ADDOITIVES			ADDS COATING ON CORE FLUX		
OTHERS			OTHERS		
HAZARDOUS MIXTURES OR OTHER LIQUIDS, SOLIDS, OR GASES					
Aliphatic petroleum distillate (Stoddard solvent)					
Petroleum Base Oil					
A-70 hydrocarbon propellant (liquefied petroleum gas) CAS 68476-85-7					
Proprietary corrosion inhibitors and wetting agents*					
Balance					

SECTION III - PHYSICAL DATA

PROPERTY	VALUE
BOILING POINT (°F, 1)	N/A
VAPOR PRESSURE (mm Hg) IN CAN @ 70°F	50 psig
VAPOR DENSITY (AIR=1)	greater than 1
SOLUBILITY IN WATER	insoluble
APPEARANCE AND ODOR	Light amber colored liquid slight characteristic odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

PROPERTY	VALUE
FLASH POINT (Methods used)	None
NOT APPLICABLE TO SPRAY GANS	
EXTINGUISHING MEDIA	CO ₂ , dry chemical, foam
SPECIAL FIRE FIGHTING PROCEDURES	None
UNUSUAL FIRE AND EXPLOSION HAZARDS	Considered "extremely flammable" under Consumer Product Safety Commission regulations.

* These do not constitute any special toxicity or handling hazards.