

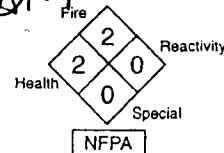


85-10108-12PK
85-10111-12PK
85-10308-48PK
85-10116-12PK

WD-40

Aerosol

USA Shipments



MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Manufacturer:	WD-40 Company	Telephone:	
Address:	1061 Cudahy Place (92110) P.O. Box 80607 San Diego, California 92138-0607	Emergency Only:	1 (800) 424-9300 (CHEMTREC)
		Information:	(619) 275-1400
		Chemical Name:	Organic Mixture
		Trade Name:	WD-40 Aerosol
		Item No.	10002, 10005, 10008, 10011, 10013, 10016, 10023

II. HAZARDOUS INGREDIENTS

Chemical Name	CAS Number	%	Exposure Limit ACGIH/OSHA
Aliphatic Petroleum Distillates	8052-41-3	60-70	100 ppm PEL
Petroleum Base Oil	64742-65-0	15-25	5 mg/M ³ TWA (mist)
Carbon Dioxide	124-38-9	2-3	5000 ppm PEL
Non-hazardous Ingredients		<10	

III. PHYSICAL DATA

Boiling Point:	NA	Evaporation Rate:	Not determined
Vapor Density (air = 1):	Greater than 1	Vapor Pressure:	110 ±5 PSI @ 70°F
Solubility in Water:	Insoluble	Appearance:	Light amber
Specific Gravity (H ₂ O = 1):	0.816 @ 70°F	Odor:	Characteristic odor
Percent Volatile (volume):	70%		

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:	Contents Under Pressure
Unusual Fire and Explosion Hazards:	FLAMMABLE - U.F.C. level 3 AEROSOL

V. HEALTH HAZARD / ROUTE(S) OF ENTRY

Threshold Limit Value

Aliphatic Petroleum Distillates (Stoddard solvent) lowest TLV (ACGIH 100 ppm.)

Symptoms of Overexposure

Inhalation (Breathing):	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.
Ingestion (Swallowed):	May cause irritation, nausea, vomiting and diarrhea.

First Aid Emergency Procedures

Ingestion (Swallowed):	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.
Inhalation (Breathing):	Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.
	Pre-existing medical conditions such as eye, skin and respiratory disorders may be aggravated by exposure.

DANGER!

Aspiration Hazard:	If swallowed, can enter lungs and may cause chemical pneumonitis. Do not induce vomiting. Call Physician immediately.
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Suspected Cancer Agent

Yes _____ No x

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

VI. REACTIVITY DATA

Stability:	Stable <u> X </u>	Unstable <u> </u>
Conditions to avoid:	NA	
Incompatibility:	Strong oxidizing materials	
Hazardous decomposition products:	Thermal decomposition may yield carbon monoxide and/or carbon dioxide.	
Hazardous polymerization:	May occur <u> </u>	Will not occur <u> X </u>

VII. SPILL OR LEAK PROCEDURES

Spill Response Procedures

Spill unlikely from aerosol cans. Leaking cans should be placed in plastic bag or open pail until pressure has dissipated.

Waste Disposal Method

Empty aerosol cans should not be punctured or incinerated; bury in land fill. Liquid should be incinerated or buried 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:	Advised when concentrations exceed TLV.
Protective Gloves:	Advised to prevent possible skin irritation.
Eye Protection:	Approved eye protection to safeguard against potential eye contact, irritation or injury.
Other Protective Equipment:	None required.

IX. SPECIAL PRECAUTIONS

Keep from sources of ignition. Avoid excessive inhalation of spray particles, do not take internally. Do not puncture, incinerate or store container above 120°F. Exposure to heat may cause bursting. Keep can away from electrical current or battery terminals. Electrical arcing can cause burn-through (puncture) which may result in flash fire, causing serious injury. Keep from children.

X. TRANSPORTATION DATA (49 CFR 172.101)

Domestic Surface

Description:	Consumer Commodity
Hazard Class:	ORM-D
ID No.:	NONE
Label Required:	Consumer Commodity (ORM-D)

Domestic Air

Description:	Consumer Commodity (Non-Flammable Gas – Aerosol)
Hazard Class:	ORM-D
ID No.:	NONE
Label Required:	Consumer Commodity (ORM-D-AIR)

XI. REGULATORY INFORMATION

All ingredients for this product are listed on the TSCA inventory.

SARA Title III chemicals:	None
California Prop 65 chemicals:	None
CERCLA reportable quantity:	None
RCRA hazardous waste no.:	D001 (Ignitable)

SIGNATURE: R. Miles

TITLE: Technical Director

REVISION DATE: March 2001

SUPERSEDES: March 1998

NA = Not applicable

NDA = No data available

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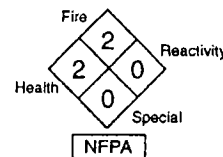
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We believe the statements, technical information and recommendations contained herein are reliable. However, the data is provided without warranty, expressed or implied. It is the user's responsibility both to determine safe conditions for use of this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

MSDS-A



WD-40®



MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Manufacturer:	WD-40 Company	Telephone:	
Address:	1061 Cudahy Place (92110) P.O. Box 80607 San Diego, California 92138-0607	Emergency Only:	1 (800) 424-9300 (CHEMTREC)
		Information:	(619) 275-1400
		Chemical Name:	Organic Mixture
		Trade Name:	WD-40 Bulk Liquid

II. HAZARDOUS INGREDIENTS

Chemical Name	CAS Number	%	Exposure Limit ACGIH/OSHA
Aliphatic Petroleum Distillates	8052-41-3	70	100 ppm PEL
Petroleum Base Oil	64742-65-0	> 20	5 mg/M ³ TWA (mist)
Non-hazardous Ingredients		< 10	

III. PHYSICAL DATA

Boiling 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):	0.816 @ 70°F	Odor:	Characteristic odor
Percent Volatile (volume):	70%	VOC:	568 grams per liter

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 / ROUTE(S) OF ENTRY

Threshold Limit Value	
Aliphatic Petroleum Distillates (Stoddard Solvent) lowest TLV (ACGIH 100 ppm.)	
Symptoms of Overexposure	
Inhalation (Breathing):	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.
Ingestion (Swallowed):	May cause irritation, nausea, vomiting and diarrhea.
First Aid Emergency Procedures	
Ingestion (Swallowed):	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.
Inhalation (Breathing):	Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.
Pre-existing medical conditions such as eye, skin and respiratory disorders may be aggravated by exposure.	
DANGER!	
Aspiration Hazard:	If swallowed, can enter lungs and may cause chemical pneumonitis. Do not induce vomiting. Call Physician immediately.
Suspected Cancer Agent	
Yes _____ No <u>X</u>	The components in this mixture have been found to be noncarcinogenic by NTP, IARC and OSHA.

VI. REACTIVITY DATA

Stability:	Stable <u> X </u>	Unstable <u> </u>
Conditions to avoid:	NA	
Incompatibility:	Strong oxidizing materials	
Hazardous decomposition products:	Thermal decomposition may yield carbon monoxide and/or carbon dioxide.	
Hazardous polymerization:	May occur <u> </u>	Will not occur <u> X </u>

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:	Advised when concentrations exceed TLV.
Protective Gloves:	Advised to prevent possible skin irritation.
Eye Protection:	Approved eye protection to safeguard against potential eye contact, irritation or injury.
Other Protective Equipment:	None required.

IX. SPECIAL PRECAUTIONS

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

X. TRANSPORTATION DATA (49 CFR 172.101)

Domestic Surface

Description:	WD-40 Bulk Lubricant
Hazard Class:	Non-Regulated Per 49 CFR 173.150(F)(2)
ID No.:	None
Label Required:	None (Under 119 Gallons)

Domestic Air

Description:	Petroleum Distillates N.O.S.
Hazard Class:	3 UN 1268 PG III
Label Required:	Flammable Liquid

XI. REGULATORY INFORMATION

All ingredients for this product are listed on the TSCA inventory.

SARA Title III chemicals:	None
California Prop 65 chemicals:	None
CERCLA reportable quantity:	None
RCRA hazardous waste no.:	D001 (Ignitable)

SIGNATURE: R. Miles

TITLE: Technical Director

REVISION DATE: March 2001

SUPERSEDES: March 1998

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NDA = No data available

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MSDS-B



WD-40 PRODUCTS (CANADA) LTD.
P.O. BOX 220 ETOBICOKE, ONTARIO M9C 4V3 (416) 622-9881 FAX (416) 622-8096

Bulk-Canada Shipments

MATERIAL SAFETY DATA SHEET ☒ LIQUID ☐ AEROSOL

SECTION I: PRODUCT AND PREPARATION INFORMATION

MARKETED BY: WD-40 PRODUCTS (CANADA) LTD.	TELEPHONE:	TRADE NAME AND SYNONYMS WD-40 BULK LIQUID	CODE NUMBER 01010, 01118
ADDRESS P.O. BOX 220 ETOBICOKE, ONTARIO M9C 4V3	EMERGENCY ONLY (CHEMTREC): 1-800-424-9300	PRODUCT USE LUBRICANT/PENETRANT	PREPARED BY: TECHNICAL GROUP, (416) 622-9881
	INFORMATION: (416) 622-9881	CHEMICAL NAMES AND SYNONYMS ORGANIC MIXTURE	DATE OF PREPARATION: MAY 1, 1999

SECTION II: HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	CAS NUMBER	PIN (UN)	PERCENT BY WT.	NATURE OF HEALTH HAZARD AND ROUTE OF ENTRY	TYPE OF HAZARD		EXPOSURE LIMITS			LD 50 (ORAL SP.)	LC 50 (INH. SP.)
					CHRONIC	ACUTE	PPM	mg/m ³	SOURCE		
Stoddard Solvent (Aliphatic Petroleum Distillates) BALANCE OF INGREDIENTS ARE NOT CONSIDERED HAZARDOUS, ACCORDING TO WHMIS.	8052-41-3	1268	60-100	May cause eye, skin irritation. Low toxicity via Inhalation.		X	100		ACGIH	6,400 mg/kg Rat	1,400 ppm (4 hr.) Rat

SECTION III: SHIPPING INFORMATION

NFPA CLASS - CLASS 2	SHIPPING NAME - PETROLEUM DISTILLATES N.O.S.
TDG CLASS - CLASS 3 - 205 LITRE DRUM, NOT REGULATED FOR 3.785 LITRES	WHMIS - B3
	PACKAGE GROUP - III
	UN NUMBER - 1993 FOR 205 LITRE DRUM

SECTION IV: PHYSICAL DATA

PHYSICAL STATE	Liquid	SPECIFIC GRAVITY (H ₂ O=1)	0.800 @ 70°F
BOILING POINT (C)	149 Minimum	PERCENT VOLATILE BY VOLUME (%)	70
VAPOUR PRESSURE (psig @ 20°C)	7 mmHg 38°C	EVAPORATION RATE (B.A. = 1)	0.10
VAPOUR DENSITY (AIR = 1)	> 1	pH	Not Appl.
SOLUBILITY IN WATER (% BY WT.)	0	FREEZING POINT (°C)	< 0
APPEARANCE AND ODOUR	Cloudy light amber, Characteristic Odour	ODOUR THRESHOLD	100 ppm

SECTION V: FIRE AND EXPLOSION HAZARDS

FLASH POINT (METHOD USED) - CONCENTRATE 43°C	FLAMMABLE LIMITS IN AIR (% BY VOL.)	LOWER	UPPER
TAG OPEN CUP, MINIMUM <input type="checkbox"/> TGC <input type="checkbox"/> ESTIMATED	(PROPELLANT PORTION)	1	6
AUTO IGNITION TEMPERATURE <input type="checkbox"/> EXPERIMENTAL <input checked="" type="checkbox"/> ESTIMATED 250°C	EXTINGUISHING MEDIA <input checked="" type="checkbox"/> Dry chemical, CO ₂ , Foam <input type="checkbox"/> Other:		
HAZARDOUS COMBUSTION PRODUCTS <input type="checkbox"/> POSSIBLE PHOSGENE OVER 500°C <input checked="" type="checkbox"/> HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE (CO) WHERE COMBUSTION IS INCOMPLETE. <input type="checkbox"/> OTHER:			
SPECIAL FIRE FIGHTING PROCEDURES Not Applicable	<input type="checkbox"/> Water from fogging nozzles may be used to cool closed containers to prevent pressure build-up if exposed to extreme temperatures. <input type="checkbox"/> Other:		
UNUSUAL FIRE AND EXPLOSION HAZARDS Not Applicable	<input type="checkbox"/> Containers may explode if exposed to temperatures greater than 50°C. <input type="checkbox"/> Sensitive to shock <input type="checkbox"/> Sensitive to static discharge		

SECTION VI: (CONT'D) LIQUID FLAMMABILITYFlammability of an aerosol is determined by flame projection. The flame projection of this product is classified as: **Not Applicable**☐ zero cm (Non-Flammable)☐ 0-15 cm (Caution)☐ 15-45 cm (Warning)☐ Over 45 cm (Danger)

FLASHBACK

Not Applicable☐ Yes ☐ No**SECTION VII: HEALTH HAZARD DATA – TOXICOLOGICAL PROPERTIES AND FIRST AID MEASURES**THRESHOLD LIMIT VALUE: See section ii
(Time weighted average, unless otherwise specified)EFFECTS OF
OVEREXPOSURE☒ ACUTE

Dizziness, nausea, Irritation to skin and eyes.

☒ CHRONIC

Solvents may cause defatting dermatitis.

TOXICOLOGICAL SYNERGISTIC PRODUCTS:

None Known

SENSITIZATION TO PRODUCT

☐ Skin ☐ Respiratory ☐ Allergen ☒ Presently Unknown

IRRITANCY OF PRODUCT

☒ Non-Irritant ☐ Irritant: ☐ Presently Unknown☐ REPRODUCTIVE EFFECTS☐ TERATOGENICITY☐ MUTAGENICITY**None Known**

CARCINOGENICITY OF PRODUCT

☒ Non-Carcinogenic ☐ Carcinogenic ☐ Presently Unknown

EMERGENCY AND FIRST AID PROCEDURES

☐ Other:Remove patient to fresh air. Flush exposed skin and eyes with copious amounts of water.
If ingested do not induce vomiting. Call a physician immediately.**SECTION VIII: REACTIVITY DATA**

STABILITY

☒ Stable
☐ Unstable

HAZARDOUS POLYMERIZATION

☒ Will Not Occur
☐ May Occur

INCOMPATIBILITY (MATERIALS TO AVOID)

☐ Strong Acids ☐ Strong Alkalis ☒ Strong Oxidizers ☐ Organic Materials ☐ Water ☐ Other
Specifics:

CONDITIONS TO AVOID

☒ Storage in hot, unventilated areas.
☐ Other:

HAZARDOUS DECOMPOSITION PRODUCTS

☐ Possible phosgene over 500°C.
☒ Hydrocarbon fumes and smoke. Carbon Monoxide (CO) where combustion is incomplete.
☐ Other:**SECTION IX: SPILL OR LEAK PROCEDURES**COEFFICIENT OF H₂O/OIL
DISTRIBUTION**Not Available**

WASTE DISPOSAL METHOD

☒ Dispose of in accordance with local, provincial and federal regulations.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

☒ Remove all sources of ignition. Use inert absorbent material, and non-sparking tools. Avoid breathing fumes. Ventilate area. Prevent from entering a watercourse.**SECTION X: SPECIAL PROTECTION INFORMATION**PROTECTIVE
GLOVES☒ Required
☐ Not normally requiredEYE PROTECTION
(SAFETY GLASSES)☒ Required
☐ Not normally required

OTHER PROTECTIVE EQUIPMENT

☐ Required
☒ Not normally required

RESPIRATION PROTECTION

☒ If used indoors on a continuous basis, use of a cartridge type respirator is recommended.

VENTILATION

☒ Local
☐ MECHANICAL If used indoors on a continuous basis.**SECTION XI: SPECIAL PRECAUTIONS**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in a cool, well ventilated area not to exceed 50°C.

X

OTHER PRECAUTIONS

Do not puncture or incinerate containers, even when empty.

X

VI. REACTIVITY DATA

Stability:	Stable <u> X </u>	Unstable <u> </u>
Conditions to avoid:	NA	
Incompatibility:	Strong oxidizing materials	
Hazardous decomposition products:	Thermal decomposition may yield carbon monoxide and/or carbon dioxide.	
Hazardous polymerization:	May occur <u> </u>	Will not occur <u> X </u>

VII. SPILL OR LEAK PROCEDURES

Spill Response Procedures

Spill unlikely from aerosol cans. Leaking cans should be placed in plastic bag or open pail until pressure has dissipated.

Waste Disposal Method

Empty aerosol cans should not be punctured or incinerated; bury in land fill. Liquid should be incinerated or buried 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:	Advised when concentrations exceed TLV.
Protective Gloves:	Advised to prevent possible skin irritation.
Eye Protection:	Approved eye protection to safeguard against potential eye contact, irritation or injury.
Other Protective Equipment:	None required.

IX. SPECIAL PRECAUTIONS

Keep from sources of ignition. Avoid excessive inhalation of spray particles, do not take internally. Do not puncture, incinerate or store container above 120°F. Exposure to heat may cause bursting. Keep can away from electrical current or battery terminals. Electrical arcing can cause burn-through (puncture) which may result in flash fire, causing serious injury. Keep from children.

X. TRANSPORTATION DATA (49 CFR 172.101)

Domestic Surface

Description:	Consumer Commodity
Hazard Class:	ORM-D
ID No.:	NONE
Label Required:	Consumer Commodity (ORM-D)

Domestic Air

Description:	Consumer Commodity (Non-Flammable Gas – Aerosol)
Hazard Class:	ORM-D
ID No.:	NONE
Label Required:	Consumer Commodity (ORM-D-AIR)

XI. REGULATORY INFORMATION

All ingredients for this product are listed on the TSCA inventory.

SARA Title III chemicals:	None
California Prop 65 chemicals:	None
CERCLA reportable quantity:	None
RCRA hazardous waste no.:	D001 (Ignitable)

SIGNATURE: R. Miles

TITLE: Technical Director

REVISION DATE: March 2001

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MSDS-A