





# **Material Safety Data Sheet**

1 – Chemical Product and Company Identification				
Manufacture	er: WD-40 Company	Chemical Name: Organic Mixture		
Address:	1061 Cudahy Place (92110) P.O. Box 80607 San Diego, California, USA	Trade Name: blue WORKS INDUSTRIAL GRADE CONTACT CLEANER		
	92138 –0607	Product Use: Contact Cleaner. Electrical Cleaner		
Telephone:		for the removal of heavy soils such as grease and		
Emergency Information:		grime from electrical equipment.		
Chemical Spills: 1-800-424-9300 (Chemtrec) 1-703-527-3887 (International Calls)		MSDS Date Of Preparation: 8/6/09		

# 2 – Hazards Identification

# Emergency Overview:

**DANGER**! Flammable Aerosol. Contents under pressure. Harmful or fatal if swallowed. Eye irritant. Avoid eye contact. Use with adequate ventilation. Keep away from heat, sparks and all other sources of ignition.

## Symptoms of Overexposure:

**Inhalation:** Mist or vapor can irritate the throat and lungs. 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. The liquid contents are an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis.

**Chronic Effects:** Prolonged overexposure may cause peripheral nervous system damage characterized by muscular weakness, loss of sensation in the extremities and impaired gait.

**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	CAS #	Weight Percent
n-Hexane	110-54-3	20-30
Isopropyl Alcohol (Isopropanol)	67-63-0	10-20
1,1 Difluoroethane	75-37-6	40-60

#### 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 for at least 15 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. Give artificial respiration or oxygen, if needed. Get medical attention if irritation or other symptoms 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. Use shielding to protect against bursting containers.

**Unusual Fire and Explosion Hazards**: Contents under pressure. Keep away from ignition source and open fire. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Flammable liquid and vapor. Vapors can cause a flash fire. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. A vapor and air mixture can create an explosion hazard in confined spaces

#### 6 – Accidental Release Measures

Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area. Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. 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 only with adequate ventilation. Keep away from heat, sparks, pilot lights, hot surfaces and open flames. Unplug electrical tools, motors and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture, crush or incinerate containers, even when empty.

Storage: Do not store above 120°F or in direct sunlight. U.F.C (NFPA 30B) Level 2 Aerosol.

# 8 – Exposure Controls/Personal Protection

Chemical	Occupational Exposure Limits
n-Hexane	500 ppm TWA (OSHA) 50 ppm TWA skin (ACGIH)
Isopropyl Alcohol (Isopropanol)	400 ppm TWA (OSHA) 200 ppm TWA (ACGIH); 400 ppm STEL (ACGIH)
1,1 Difluoroethane	1000 ppm TWA (AIHA WEEL)

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. Always spray away from your face.

**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 applicable regulations and good Industrial Hygiene practice. **Work/Hygiene Practices:** Wash with soap and water after handling.

## 9 – Physical and Chemical Properties

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Boiling Point:	152-180°F	Specific Gravity:	0.71
Solubility in Water:	Partially soluble	pH:	Not Applicable
Vapor Pressure:	153 mmHg @ 25°C (n-	Vapor Density:	Greater than 2 (air=1)
-	hexane)		
Percent Volatile:	100%	VOC:	45%
Coefficient of Water/Oil	Not Determined	Appearance/Odor	Clear liquid/hydrocarbon
Distribution:			odor
Flash Point:	<-29.2°F Tag Closed Cup	Flammability Limits:	LEL: 1.1%
			UEL: 17.1%

# 10 – Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur.

**Conditions to Avoid:** Avoid heat, sparks, flames and other sources of ignition. Do not puncture or incinerate containers.

Incompatibilities: Strong oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition will generate carbon monoxide, carbon dioxide, hydrogen fluoride.

## 11 – Toxicological Information

The oral toxicity of this product is estimated to be greater than 2,000 mg/kg based on an assessment of the ingredients. 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: Consumer Commodity, ORM-D IMDG Shipping Description: UN1950, Aerosols, 2.1, LTD QTY

#### 15 – Regulatory Information

# U.S. Federal Regulations:

**CERCLA 103 Reportable Quantity:** Releases of this product in excess of the reportable quantity of 8,330 pounds based on the RQ for n-hexane of 5,000 lbs present at less than 60% must be reported to the National Response Center. 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, Chronic Health, Fire Hazard, Sudden Release of Pressure

Section 313 Toxic Chemicals: This product contain s the following chemicals subject to SARA Title III Section 313 Reporting requirements: n-hexane 110-54-3 20-30%

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

**Canadian Environmental Protection Act**: All of the ingredients are listed on the Canadian Domestic Substances List or exempt from notification

**Canadian WHMIS Classification**: Class B-5 (Flammable Aerosol), Class D-2-B (Eye Irritant, Chronic Health Effects)

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:

SIGNATURE:

HMIS Hazard Rating: Health – 2 (moderate hazard), Fire Hazard – 4 (severe hazard), Reactivity – 0 (minimal hazard)

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TITLE: Director of Global Quality Assurance

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SUPERSEDES: New