

MATERIAL SAFETY DATA SHEET (MSDS)
Please retain for your records.

MATERIAL SAFETY DATA SHEET
CRC S100

75827
10263

Industries, Inc.
ouis Drive, Warminster, PA 18974
674-4300

PRODUCT NAME: HF CONTACT CLEANER (aerosol)
#MSDS03125
PRODUCT-3125

#09-032

1. INGREDIENTS

INGREDIENTS (CAS #)	ACGIH TLV	OSHA PEL	OTHER LIMITS	%
Petroleum Distillate (64742-48-9)		400 ppm	100 ppm	94-98
Carbon Dioxide (124-38-9)	5000 ppm	10000		2-5

2. PHYSICAL DATA: without propellant

Specific Gravity: 0.77
Boiling Point: 365 F initial
Freezing Point: ND
Vapor Pressure: <10 mm @ 25 C
% Volatile: 100
Evaporation Rate: <0.1 butyl acetate-1
Vapor Density: >5 (air=1)
pH: NA

Appearance and Odor: Clear liquid with negligible odor.
Solubility: Negligible in water.

3. FIRE AND EXPLOSION DATA

Flashpoint: 147 F
Method: TCC
Flammable Limits: LEL: 0.6
UEL: 7.0
Extinguishing Media: Foam, water fog, dry chemical, CO2
Unusual Hazards: Aerosol containers may explode when heated to above 120 F.

4. REACTIVITY AND STABILITY

Stability: Stable
Hazardous decomposition products: CO (thermal)
Materials to avoid: Avoid strong oxidizers.

5. PROTECTION INFORMATION

Ventilation: Use adequate ventilation to maintain vapor conc. below the TLV.
Respiratory: Use self-contained breathing apparatus above the TLV.
Gloves: solvent resistant
Eye & Face: safety glasses
Other Protective Equipment: Not normally required with aerosol product usage.

6. HEALTH HAZARD DATA

Primary Routes of Entry: Inhalation, Skin
Signs and Symptoms of Exposure:
1. Acute Overexposure:
Inhalation - may irritate respiratory tract, causes headaches, dizziness, anesthesia, unconsciousness and may affect central nervous system.
- causes irritation.
- causes defatting.
Chronic overexposure:
Repeated overexposures may cause dermatitis.
Medical Conditions Generally Aggravated by Exposure: NA
Chemical Listed as Carcinogen or Potential Carcinogen:
National Toxicology Program: No
IARC Monographs: No
OSHA: No

Emergency and First Aid Procedures: (If symptoms persist, call a physician)

1. Inhalation:
Remove to fresh air. Apply artificial respiration if necessary.
2. Eyes:
Flush with large amounts of water for 15 minutes.
3. Skin:
Wash skin with soap and water.
4. Ingestion:
Do NOT induce vomiting. Call a doctor.

7. SPILL OR LEAK PROCEDURES:

Precautions to be taken in Handling and Storage:
Keep away from ignition sources. Store in a cool, dry area.
Steps to be taken in case Material is released or spilled:
Remove ignition sources. Pick up material with an absorbent. Keep area ventilated.

Waste Disposal:
All used and unused Product should be disposed of in conformance with local, state and federal regulations.

8. SPECIAL PRECAUTIONS AND USE DIRECTIONS

Vapors are heavier than air and will collect in low areas. Be sure ventilation is maintained properly. Aerosol cans may explode when heated above 120 F.

9. NFPA HAZARDS RATINGS

Health: 1
Flammability: 2
Reactivity: 0

10. SARA INFORMATION

This product contains NO chemicals that are subject to release reporting under Section 313 of SARA Title III.

PREPARED BY: Jon Brown
ORIGINAL DATE OR DATE OF REVISION: 10/14/93

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75829
10265

PRODUCT NAME: HEAVY DUTY DEGREASER AEROSOL
303095
CT-3095, 3095T

MANUFACTURED BY: CRC Industries, Inc.
885 Louis Drive, Warminster, PA 18974
Phone: (215) 674-4300

INGREDIENTS (CAS #)	ACGIH TLV	OSHA PEL	OTHER LIMITS	%
1,1,1 Trichloroethane (71-55-6)	350 ppm	350 ppm		85-95
1,3 Dioxolane (646-06-0)	NA	NA		1-3
2-Butanol (78-92-2)	100 ppm	100 ppm		3-6
Carbon Dioxide (124-38-9)	5000 ppm	5000 ppm		
1,2 Butylene Oxide (106-88-7)	NA	NA	NA	0-1

2. PHYSICAL DATA: without propellant

Specific Gravity: 1.305 @ 70 F
Boiling Point: 165 F
Freezing Point: ND
Vapor Pressure: 100 mm @ 20 C
% Volatile: 100
Evaporation Rate: Rapid
Vapor Density: 4.55 (air=1)
pH: NA

Appearance and Odor: Colorless liquid. Irritating odor at high concentrations.
Solubility: Slightly soluble in water. Good solvent for many organic materials.

3. FIRE AND EXPLOSION DATA

Flashpoint: None
Method: TCC, TOC, COC
Flammable Limits: LEL: 7.5
UEL: 12.5
Extinguishing Media: Water fog
Unusual Hazards: Aerosol containers may explode when heated above 120 F.

4. REACTIVITY AND STABILITY

Stability: Good--avoid exposure to open flame, arcs, hi temps
Hazardous decomposition products:
Thermal: Hydrogen chloride, chlorine, and some phosgene.
Materials to avoid:
Avoid storage in aluminum containers or contact with aluminum powder or zinc powder.

5. PROTECTION INFORMATION

Ventilation: Maintain concentration below TLV. Use mechanical means if necessary.
Respiratory: Above TLV, use self contained breathing apparatus.
Gloves: Solvent resistant
Eye & Face: Safety glasses
Other Protective Equipment: Not normally required with aerosol usage.

6. HEALTH HAZARD DATA

Primary Routes of Entry: Inhalation, Skin
Signs and Symptoms of Exposure:
Acute Overexposure:
Inhalation: headaches, dizziness, anesthesia, unconsciousness.
Eyes: causes pain and some irritation.
Skin: repeated exposures may cause irritation.
2. Chronic overexposure:
Repeated overexposures have caused liver effects in experimental animals.
Medical Conditions Generally Aggravated by Exposure:
High levels (8000 ppm+) of vapor may cause cardiac arrhythmias.
Chemical Listed as Carcinogen or Potential Carcinogen:
National Toxicology Program: No
IARC Monographs: No
OSHA: No
Emergency and First Aid Procedures: (If symptoms persist, call a physician)
1. Inhalation:
Remove to fresh air. Apply artificial respiration if necessary.
2. Eyes:
Flush for 15 minutes with large amounts of water.
3. Skin:
Remove contaminated clothing. Wash exposed area with soap and water.
4. Ingestion:
DO NOT induce vomiting. Call a doctor.

7. SPILL OR LEAK PROCEDURES:

Precautions to be taken in Handling and Storage:
Store in a cool, dry area.
Steps to be taken in case Material is released or spilled:
Usually not a problem with aerosols. Area should be ventilated and absorbent used to pick up excess material.
Waste Disposal:
All used and unused Product should be disposed of in conformance with local, state and federal regulations.

8. SPECIAL PRECAUTIONS AND USE DIRECTIONS

Avoid skin contact or breathing of vapors. Vapors are heavier than air and will collect in low areas. Do not use in confined areas or low spots without adequate ventilation. If vapors are suspected in a low area, do not enter unless special breathing apparatus is used and an observer is present for assistance. Keep aerosols away from heat.

9. NFPA HAZARDS RATINGS

Health: 2
Flammability: 1
Reactivity: 0

10. SARA INFORMATION

This product contains the following chemicals that are subject to release reporting under Section 313 of SARA Title III.

Chemical Name	CAS #	Percent
1,1,1 Trichloroethane	71-55-6	85-95
2-Butanol	78-92-2	1-2

PREPARED BY: Jon Brown
REVISION DATE OR DATE OF REVISION: 04/14/93

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2SF45

4F349
5A282
W

6Y852

Health = 2; Fire = 2; Reactivity = 0; Special = 0

PRODUCT IDENTIFICATION

Manufacturer: WD-40 Company
Address: 1061 Cudahy Place (92110)
P.O. Box 80607
San Diego, California 92138-9021
Telephone:
Emergency Only: 1 (800) 424-9300 (CHEMTREC)
Information: (619) 275-1400

Chemical Name: Organic Mixture
Trade Name: WD-40 Aerosol

II. HAZARDOUS INGREDIENTS

Exposure Limit	%	ACGIH/OSHA
Chemical Name		
(CAS Number)		
Aliphatic Petroleum Distillates (8022-41-3)	50	100 ppm PEL
A-70 Hydrocarbon Propellant (68476-85-7)	25	1000 ppm PEL
Petroleum Base Oil (64742-65-0)	> 15	5mg/M3 TWA(mist)
Non-hazardous Ingredients	< 10	

III. PHYSICAL DATA

Boiling Point: NA
Vapor Density (air = 1): Greater than 1
Solubility in Water: Insoluble
Specific Gravity (H₂O = 1): 710 @ 70 F
Percent Volatile (volume): 80%
Evaporation Rate: Not determined
Vapor Pressure: 55+/-5 PSI @ 70 deg F
Appearance: Light amber
Odor: Characteristic odor

IV. FIRE AND EXPLOSION

Flash Point: NA to aerosol cans
Flammable Limits: (propellant portion) [Le] 1.8% [Uel] 9.5%
Extinguishing Media: CO₂, Dry Chemical, Foam
Special Fire Fighting Procedures:
Unusual Fire and Explosion Hazards: EXTREMELY 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.
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.

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

VI. REACTIVITY DATA

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

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 deg F. Exposure to heat
may cause bursting. Keep from children.

X. TRANSPORTATION DATA

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

DOMESTIC AIR

Description: Consumer Commodity (Flammable Gas-Aerosol products)
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: October 1993 SUPERSEDES: August 1992

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

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recommendations contained herein are reliable. However, the
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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 use. Before using product,
read label. MSDS-A