

MATERIAL SAFETY DATA SHEET

SECTION I
PRODUCT IDENTIFICATION

MANUFACTURED BY:
 SPRAYON PRODUCTS
 26300 FARGO AVENUE
 BEDFORD HTS, OH 44146
 EMERGENCY TELEPHONE NO.
 (216) 292-7400

MANUFACTURED FOR:
 GRAINGER
 333 KNIGHTSBRIDGE
 LINCOLNSHIRE, IL 60069
 INFORMATION TELEPHONE NO.
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 9 - Dec - 92

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Cleaners

CAS No.	SECTION II HAZARDOUS INGREDIENT (percent by weight)	ACGIH TLV	OSHA PEL	Units	Vapor Pressure (mm Hg)	SW688 Dust/Mop Treatment	2W750A Glass Cleaner	2W751A SS Cleaner	2W750A Paint & Decal Rem	2X720B Ultrasonic Solvent	4X598B Contract Cleaner	5W047A Prem Coat Cleaner
		<STEL>	<STEL>									
74-98-6	Propane (propellant)		1000	PPM	760.0							
75-28-5	2-Methylpropane (propell)	Not Established			760.0	15	5	8	8			
124-38-9	Carbon Dioxide	5000	10000	PPM	760.0					3	4	3
		<30000>	<30000>									
75-09-2	Methylene Chloride	50	100	PPM	420.0							
		350	350	PPM	132.0					48	98	
71-55-6	1,1,1-Trichloroethane	<450>	<450>	PPM								97
		1000	1000	PPM								
76-13-1	Trichlorotrifluoroethane	<1250>	<1250>	PPM						48		
		50	25	PPM	18.0							
127-18-4	Tetrachloroethylene	<200>		PPM	2.0	7			1			
742-47-8	Mineral Spirits	100	100	PPM				20				
		Not Established							1			
Unknown	Mineral Oil	Not Established				20						
141-43-5	Ethanolamine	Not Established										
67-63-0	2-Propanol	400	400	PPM	33.0		6					
111-76-2	2-Butoxyethanol	25	25	PPM (Skin)	0.6							
	Flash Point (°F)					<0	<0	<0	<0	>199	>199	>199
	NFPA Code 308 Level					2	1	1	1	1	1	1
	DOL Storage Category					1A	1A	1A	1A	3B	3B	3B
	VOC as a percent by weight, excluding federally exempt solvents.					40	11	35	28	0	0	0
	HMIS® Ratings (Health-Flammability-Reactivity)					2-4-0	2-1-0	2-4-0	2-4-0	2	2	2

§ Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.65 C

PURSUANT TO PROPOSITION 65: Some of these products contain Methylene Chloride which is known by the state of California to cause cancer.

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Section III — PHYSICAL DATA

PRODUCT WEIGHT - N.A.
SPECIFIC GRAVITY - N.A.
BOILING RANGE - <0-310 F
VOLATILE VOLUME - 275 V

EVAPORATION RATE - Faster than Ether
VAPOUR DENSITY - Heavier than Air
MELTING POINT - N.A.
SOLUBILITY IN WATER - N.A.

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION - FLASH POINT <0 F TCC LFL, 1.1 UEL, 8.4
RED LABEL - Extremely Flammable, Flash below 21 F
EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Foam
UNUSUAL FIRE AND EXPLOSION HAZARDS
Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.
SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section V — HEALTH HAZARD DATA

ROUTES OF EXPOSURE
Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. Alcohols can be absorbed through the skin. Follow recommendations for proper use, ventilation, and personal protective equipment to minimize exposure.
ACUTE Health Hazards
EFFECTS OF OVEREXPOSURE
Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Overexposure to Methylene Chloride can raise the level of carbon monoxide in the blood.
SIGNS AND SYMPTOMS OF OVEREXPOSURE
Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Nausea and itching or burning sensation may indicate eye or excessive skin exposure.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
Cardiovascular problems may be aggravated by overexposure to Methylene Chloride.
EMERGENCY AND FIRST AID PROCEDURES
If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet. If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If IN EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention. If SWALLOWED: Get medical attention.
CHRONIC Health Hazards
Methylene Chloride is listed by IARC and NTP. Laboratory animals exposed to high high levels of Methylene Chloride in lifetime studies have developed cancer. There is no evidence to date that Methylene Chloride causes cancer in humans.
Tetrachloroethylene is listed by IARC and OSHA as a potential human carcinogen, and by NTP as an animal carcinogen. Tetrachloroethylene produced liver tumors in rats and lung tumors in mice. Human epidemiological evidence is conflicting and inconclusive.
Prolonged overexposure to solvent ingredients in Section II may cause adverse effects to the liver, urinary, blood forming, and cardio-vascular systems.
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Section VI — REACTIVITY DATA

STABILITY - Stable
INCOMPATIBILITY
None known.
HAZARDOUS DECOMPOSITION PRODUCTS
By fire, Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride
HAZARDOUS POLYMERIZATION - Will Not Occur

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Remove all sources of ignition. Ventilate and remove with inert absorbent.
WASTE DISPOSAL METHOD
Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste number.
Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State, and local regulations regarding pollution.

Section VIII — PROTECTION INFORMATION

PRECAUTIONS TO BE TAKEN IN USE:
Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.
VENTILATION
Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.
RESPIRATORY PROTECTION
If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section II.
PROTECTIVE GLOVES
Wear gloves which are recommended by glove supplier for protection against materials in Section II.
EYE PROTECTION
Wear safety spectacles with unperforated side shields.

Section IX — PRECAUTIONS

NFPA CODE JOB LEVEL -- See TABLE
DOL STORAGE CATEGORY -- See TABLE
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Keep away from heat, sparks, and open flame.
Vapors will accumulate readily and may ignite explosively.
Briefing use and until all vapors are gone. Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off elevators, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved bonding and grounding procedures.
Contents under pressure. Do not puncture, incinerate, or expose to temperatures above 130F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.
OTHER PRECAUTIONS
Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.