



MATERIAL SAFETY DATA SHEET

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Section 1 - PRODUCT AND COMPANY IDENTIFICATION
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PRODUCT NUMBER	HMIS CODES
CW-165	Health 3 Flammability 4 Reactivity 1
PRODUCT NAME	
CARNAUBA WAX SPRAY	
MANUFACTURER'S NAME	EMERGENCY TELEPHONE NO.
PLASTIC PROCESS EQUIPMENT, INC.	(800)535-5053
8303 CORPORATE PARK DRIVE	
MACEDONIA, OHIO 44056	
DATE OF PREPARATION	INFORMATION TELEPHONE NO.
11-FEB-08	(216)367-7000

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Section 2 - COMPOSITION/INFORMATION ON INGREDIENTS
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% by WT	CAS No.	INGREDIENT	UNITS	VAPOR PRESSURE
65-85	79-01-6	Trichloroethane		
<5	8015-86-9	Refined Carnauba Wax		
15-35	68476-85-7	Liquefied Petroleum Gas		

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Section 3 - HAZARDS IDENTIFICATION
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ROUTES OF EXPOSURE
Eyes, skin, inhalation, ingestion.

TARGET ORGANS
Central Nervous System.

INHALATION
High concentrations of vapor, in excess of the occupational exposure limit, will lead to adverse effects on the central nervous system, causing nausea, headaches, dizziness and lightheadedness (concentrations in excess of 300ppm). Higher concentrations may aggravate pre-existing skin and respiratory disorders.

Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.



Section 4 – FIRST AID MEASURES

- If INHALED: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Continue to monitor. Get medical attention.
- If on SKIN: Remove contaminated clothing immediately. Wash skin with soap and water. If irritation develops, seek medical attention.
- If in EYES: Flush eyes with water for 15 minutes. Get medical attention. If eye irritation persists, obtain medical treatment.
- If SWALLOWED: Do not induce vomiting. Get medical attention immediately.
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Section 5 – FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Not determined. Estimated < 0 F	0.7%	6.1%

Flashpoint and flammability limits based on propellant components.

EXTREMELY FLAMMABLE PROPELLANT VAPOR MAY CAUSE FLASH FIRE

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical or Foam is recommended. Water may be ineffective for extinguishment, but can be useful in minimizing or dispersing vapors, protecting personnel and cooling containers. If containers are not properly cooled they can rupture in the heat of a fire. Avoid spreading burning liquid with water used for cooling purposes.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Level 2 aerosols - contents under pressure.

Section 6 – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Leaking aerosol cans should be put into suitable container until the internal pressure has dissipated. Use suitable absorbents to collect liquid product. Consult regulations for the disposal of the container, liquid and absorbents.

Section 7 – HANDLING AND STORAGE

HANDLING PRECAUTIONS

Use in accordance with good industrial workplace practices. Avoid unnecessary contact. Wash thoroughly after handling. Use with good ventilation.

STORAGE REQUIREMENTS

Store in a dry place away from excessive heat. Store containers with lids on and properly labeled.

Do not store at temperatures above 120 degrees F.



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Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION
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ENGINEERING CONTROLS

Eye wash stations and emergency showers should be immediately available.

PROTECTIVE EQUIPMENT

Eyes and Face: Standard safety glasses with splash shields typically offer adequate protection. Where excessive splashing or spraying is possible, a face shield should be used.

Skin and Clothing: Excessive contact should be avoided. Neoprene gloves, boots and aprons will provide adequate protection when contact cannot be avoided. Remove and wash any contaminated clothing immediately. Wash thoroughly after handling.

Respiratory: Local exhaust, or mechanical or special ventilation to maintain exposure limits. Maintain airborne concentrations below OSHA established exposure limits of ingredients in section 2.

EXPOSURE GUIDELINES/OTHER:

PRODUCT	CAS#	PEL-OSHA	TLV ACGIH
Trichloroethylene	79-01-6	100 ppm	50 ppm
Liquefied Petroleum Gas	68476-85-7	1000 ppm	1000 ppm

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Section 9 – PHYSICAL AND CHEMICAL PROPERTIES
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APPEARANCE: Clear mist with chlorinated odor as dispensed from aerosol can.	
PHYSICAL STATE: Stable	BOILING POINT: ND
ODOR: Mildly sweet	FREEZING/MELTING POINT: ND
pH: Not determined.	SOLUBILITY: NIL
VAPOR PRESSURE: Not determined.	VAPOR DENSITY: >1
SPEC GRAV./DENSITY: Liquid portion >1	
VOC: >20%	
EVAP. RATE: <1 (NBA=1)	
PERCENT VOLATILE: >99%	

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Section 10 – STABILITY AND REACTIVITY
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STABILITY

Stable

CONDITIONS TO AVOID

Avoid excessive heat, sources of ignition and excessive water.

INCOMPATIBILITY

Avoid contact with strong oxidizing agents and strong reducing agents (strong acids or bases). Avoid mixture with water.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, carbon dioxide, and various hydrocarbons.



HAZARDOUS POLYMERIZATION

Will not occur

Section 11 - TOXICOLOGICAL INFORMATION

Toxicological information on this product as a mixture has not been determined. See section 15 for reportable ingredients.

Section 12 - ECOLOGICAL INFORMATION

Ecological information on this product as a mixture has not been determined.

Section 13 - DISPOSAL CONSIDERATIONS

Used or unused product should be disposed of in accordance with local, state, and federal regulations. Some special regulations may exist for the disposal of aerosol containers.

Empty containers may contain residual pressure and contents. They should be handled with the same precautions as the product.

Section 14 - TRANSPORT INFORMATION

DEPT. OF TRANSPORTATION (DOT):

This product meets the definitions set forth in CFR 49 part 173.150c as a "consumer commodity." Allowing for certain exceptions (173.156) for domestic surface (ground) shipments.

PROPER SHIPPING NAME: Consumer commodity.

HAZARD CLASS: ORM-D

INTERNATIONAL (IMDT-IATA)

PROPER SHIPPING NAME: Aerosols, Limited Quantities

HAZARD CLASS: 2 Flammable Compressed Gas

UN NUMBER: 1950

Section 15 - REGULATORY INFORMATION

TRICHLOROETHYLENE

US FEDERAL REGULATIONS

OSHA CLASSIFICATION: This product is classified as a "Hazardous Chemical" by definition of Hazard Communication Standard (29 CFR 1910.1200)

CARCINOGEN STATUS: Trichloroethylene is listed by NTP as 'reasonably anticipated to be a human carcinogen' and by IARC as a group 2A carcinogen.

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The ACGIH TLV Committee have published a Notice of Intended Change (NIC) to the TLV and in the carcinogenicity classification for trichloroethylene (currently group 5: not suspected as a human carcinogen). The NIC proposes a TLV of 10 ppm (8-hour TWA) and 25 ppm (15 minute STEL) and a carcinogenicity classification in Group A2 (suspected human carcinogen).

TSCA INVENTORY STATUS: All components of this product are listed on the TSCA Inventory.

CERCLA: This material is listed in Table 302.4 of 40 CFR Part 302 as a hazardous substance with a reportable quantity of 100 lbs. Releases to air, land or water which exceed the RQ must be reported to the National Response Center, 800-424-8802.

SARA: Sections 313 and 40 CFR 372: This product is subject to reporting requirements.

HAZARD CATEGORIES: Sections 311/312 (40 CFR 370.2): An immediate health hazard; a delayed health hazard. CALIFORNIA PROPOSITION 65: This product contains a chemical known to the State of California to cause cancer. US FEDERAL RIGHT-TO-KNOW: Contains butylene oxide, butanone, methyl pyrrole.

CANADIAN REGULATIONS: This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations) and this MSDS contains all the information required by the CPR.

CONTROLLED PRODUCTS REGULATIONS(WHMIS) CLASSIFICATION:

CLASS D1B: Toxic material causing immediate and serious toxic effects.

CLASS D2A: Very toxic material causing other toxic effects.

CLASS D2B: Toxic material causing other toxic effects.

CEPA/CANADIAN DOMESTIC SUBSTANCES LIST (DSL): The substances in this product are on the Canadian Domestic Substances List (CEPA DSL).

EU EINECS: 201-167-4

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Section 16 - OTHER INFORMATION

MANUFACTURERS DISCLAIMER:

To the best of our knowledge, the information contained herein is accurate. However, Plastic Process Equipment, Inc. assumes no liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which exists.