

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard
29 CFR 1910.1200. Standard must be
consulted for specific requirements

U.S. Department of Labor

Occupation Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY	<i>Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.</i>
THERMAL HEAD & PLATEN CLEANER (120535)	

Section I	Consumer Commodity, ORM-D
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Manufactured by: Beaver Research Company	Emergency Telephone Number 1-800-535-5053
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Address (Number, Street, City, State, and ZIP Code) 3700 E. Kilgore Road, Portage, MI 49002	Telephone Number For Information 1-800-544-0133
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HMIS RATINGS:	Health: 2	Date Prepared
0-Minimal 3-Serious	Flammability: 3	08/11/09
1-Slight 4-Extreme	Reactivity: 0	Signature of Preparer (optional)
2-Moderte	Personal Protection: B	

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	CAS No.	313/Chem	TWA/TLV	PEL	% WT
Hexane isomers	64742-49-0 / 107-83-5	No	500 ppm	500 ppm	60-70
Synthetic isoparaffinic hydrocarbon	64741-66-8	No	N/E	N/E	1 - 10
n-Hexane	110-54-3	Yes	50 ppm	500 ppm	1 - 10
Methanol	67-56-1	Yes	200 ppm	200 ppm	0 - 5
1,1-Difluoroethane	75-37-6	No	N/E	N/E	20 - 30

Section III - Physical/Chemical Characteristics

Boiling Point	140° F	Specific Gravity (H2O=1) @ 70°F	0.6699
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Vapor Pressure of can (psig @72° F)	N/D	Total VOC %	75
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Vapor Density (AIR = 1)	> 1	Evaporation Rate	N/A
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Solubility in Water	Negligible	pH	N/A
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Appearance and Odor
Clear liquid with alcohol odor.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) <0°F	Flammable Limits (as per CSMA Flame Projection Test): Extremely Flammable Spray	LEL N/A	UEL N/A
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Extinguishing Media
Foam, CO2, Dry Media

Special Fire Fighting Procedures
Wear self-contained breathing apparatus and protective clothing. Cool fire exposed containers to prevent rupturing.

Unusual Fire and Explosion Hazards
Exposure to temperature above 120°F may cause bursting.

Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid
	Stable	

Incompatibility (Materials to Avoid)
Avoid contact with strong oxidizing agents.

Hazardous Decomposition or Byproducts
Oxides of carbon.

Hazardous	May Occur	Conditions to Avoid
Polymerization	Will Not Occur	

Section VI - Health Hazard Data

Primary Route(s) of Entry:	Inhalation?	Eyes?	Skin?	Ingestion?
	X	X	X	X

Health Hazards (Acute and Chronic)

Eyes: May cause mild irritation including stinging and redness but does not injure eye. **Skin:** May cause mild irritation. Frequent or prolonged contact may cause more severe irritation, defatting of the skin and dermatitis. **Inhalation:** Inhalation of high vapor concentrations can cause irritation of nasal and respiratory tract, dizziness, headaches, anesthesia, drowsiness, unconsciousness and central nervous system effects, including death. May cause peripheral nervous system disorder and/or damage. **Ingestion:** Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause severe pulmonary injury.

Carcinogen:	NTP?	IARC Monographs?	OSHA Regulated?
	No	No	No

Signs and Symptoms of Exposure

See above "Health Hazards".

Medical Conditions Generally Aggravated by Exposure

N/E

Emergency and First Aid Procedure

Eyes: Flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. If irritation persists seek medical attention. **Skin:** Remove contaminated clothing. Wash with soap and water. If irritation persists seek medical attention. **Inhalation:** Remove to fresh air. Seek medical attention immediately. If breathing stops, give artificial respiration. Get medical attention. **Ingestion:** Do not induce vomiting. Seek medical attention immediately. **Note to Physicians:** Treat symptomatically. Gastric lavage using a cuffed endotracheal tube may be performed at your discretion.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Allow propellant to evaporate. Maintain local exhaust and adequate ventilation. No smoking. Keep sparks, heat sources and open flame far away from spill or leak. No additional cleaning should be required.

Waste Disposal Method

Aerosol cans, when emptied and depressurized through normal use, pose no disposal hazard and should be recycled. Consult Federal, State and local authorities for approved procedures.

Precautions to be Taken in Handling and Storage

Store in a cool, dry area away from heat or open flame. Do not store at temperatures above 120°F. **NFPA Code 30B Rating:** Level 3 Aerosol.

Other Precautions

KEEP OUT OF REACH OF CHILDREN. For industrial and institutional use only.

Section VIII - Control Measures

Respiratory Protection (Specify Type)

None needed for proper use in accordance with label directions. Use NIOSH approved cartridge respirator if vapors exceed exposure limits. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Ventilation	Local Exhaust	Yes, to keep vapor concentrations of ingredients listed in Section II below acceptable limit.	Special	N/A
	Mechanical(General)	N/A	Other	N/A

Protective Gloves

Use chemical resistance gloves, such as nitrile, PVC, or Viton, if hand contact will be made.

Eye Protection

Wear safety glasses or chemical proof goggles.

Other Protective Clothing or Equipment

N/A

Work/Hygienic Practices

N/A

N/A=Not Applicable N/E=Not Established N/D=Not Determined <=Less Than >=More Than

This 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. We make no warranties, express or implied, and assume no liability in connection with any use of this information.