

HFPA Rating: Health 1 Flammability 2 Reactivity 0 Special NONE

HMIS Rating: Health 1 Flammability 2 Reactivity 0 Personal Protection R

Material Safety Data Sheet

This MSDS complies with OSHA's Hazard Communication Standard 29 CFR 1910, 1200 and OSHA FORM 174.

DOT HAZARD CLASSIFICATION: **ORM-D**

Identity (Trade Name As Used On Label): **PAI OIL Stainless Steel Cleaner**

MSDS Number: **411-89-1**

EPA Subregistration No.: **N.A.**

Date Prepared: **January 12, 1989**

Prepared By: **Regulatory Department**

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.

Manufactured For: **Hillyard Chemical Co.**
 Address: **302 N. Fourth St.**
St. Joseph, MO 64501
 Phone Number (for information): **(816) 233-1321**
 Emergency Phone Number: **(800) 255-4564**

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS - Chemical Name & Common Names (Hazardous Components 1% or greater, Carcinogens 0.1% or greater)	CAS Number	Regulatory Reference**	APPROX. % (wt)	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Reference Source***
Mineral spirits	64742-88-7	b, c, d	66	500	100	d
Adepsine oil (PEL & TLV as mist)	8042-47-5	b, c, d	22	5mg/m ³	5mg/m ³	d
Isobutane	75-28-5	b, c, d	7	None	800	d
Propane	74-98-6	b, c, d	3	1000	Asphyx	d
Non-Regulated Ingredients:						
TOTAL			2	100		

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS N.D. - Not Determined

Boiling Point	354°F	Specific Gravity (H ₂ O = 1)	N.D.
Vapor Pressure PSIG @ 70°F (Aerosols)	45	Vapor Pressure (Non-Aerosols) (mm Hg and Temperature)	0.84
Vapor Density (Air = 1)	N.D.	Evaporation Rate (BuAc=1)	N.A.
Solubility in Water	Slight	Water Reactivity	N.D.
Appearance and Odor	Clear colorless to light yellow liquid, lemon scent in an aerosol.		

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA N.A. - Not applicable

FLAMMABILITY as per USA FLAME PROJECTION TEST (Aerosols) Flammable	Auto-Ignition Temperature	Flammability Limits in Air % by Volume	LEL	UEL
Flash Point and Method Used (Non-Aerosols) Concentrate 129°F TCC		N.D.	N.D.	N.D.
Extinguisher Media Carbon dioxide, dry chemical, foam, fog. Treat as an oil fire.	Special Fire Fighting Procedures Use water spray to keep exposed containers cool and vapors down. Do not allow to enter public watercourses. Near RCMA in chemical fires.			
Unusual Fire and Explosion Hazards Aerosol container may burst if heated over 130°F (pressurized).				

Optional: Regulated By: CA NJ Title III, Sec. 313 MA PA Other _____

Chemical Listed as Carcinogen or: NTP IARC Monograph OSHA Not Listed Animal Data Only

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Conditions To Avoid Extreme heat.
Incompatibility (Materials to Avoid) Strong oxidizers, acids and bases.	
Hazardous Decomposition Products Carbon dioxide and monoxide.	
HAZARDOUS POLYMERIZATION <input checked="" type="checkbox"/> Will Not Occur <input type="checkbox"/> May Occur	Conditions To Avoid None known.

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY <input type="checkbox"/> Inhalation <input type="checkbox"/> Skin Absorption <input checked="" type="checkbox"/> Ingestion <input type="checkbox"/> Eye <input type="checkbox"/> Not Hazardous	Skin contact.
ACUTE EFFECTS Use proper chemical hygiene to avoid these hazards.	
Inhalation Irritant to nose and throat. Aspiration hazard-may induce chemical pneumonitis if aspirated into lungs. CNS depressant.	
Eye Contact Redness or irritation possible with vapor exposure. Eye irritant on direct contact.	
Skin Contact Skin irritant. Redness, burning, drying or cracking of skin possible if misused.	
Ingestion Aspiration hazard. Irritation of digestive tract. CNS depression.	
CHRONIC EFFECTS Repeated or prolonged overexposure to solvents can cause Painter's Syndrome (permanent brain and nervous system damage).	
Medical Conditions Generally Aggravated by Exposure Persons with pre-existing skin and lung disorders could be affected.	
EMERGENCY FIRST AID PROCEDURES-	
Eye Contact Flush with plenty of water at least 15 minutes. Get medical attention immediately.	
Skin Contact Flush with plenty of water at least 15 minutes, while removing contaminated clothing and shoes. Get medical attention immediately.	
Inhalation Get to fresh air. If unconscious, qualified personnel should administer artificial respiration.	
Ingestion Do not induce vomiting. Give large quantities of water, get medical attention immediately.	

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (Specify Type) NOT usually necessary. Use with adequate ventilation.	Eye Protection Yes (safety glasses).
Protective Gloves Yes (impervious).	
VENTILATION REQUIREMENTS Mechanical acceptable. Do not exceed PELs & TLVs. (See Section 1)	
Other Protective Clothing and Equipment As needed to prevent anticipated body contact (i.e., apron, boots, etc.).	
Hygienic Work Practices Normal. Wash with soap and water before eating, drinking, using restroom, etc.	

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURES

Steps to be Taken if Material is Spilled or Released Isolate and ventilate area. Eliminate ignition sources. Wear protective gear as necessary. Large spill-dike area to prevent spreading. Pick-up on absorbant. Dispose of properly.
Waste Disposal Methods Consult local, state and federal regulations. Do not puncture or incinerate. Replace cap on empty container, wrap and discard if allowed by relevant statutes.
Precautions to be Taken in Handling and Storage Store in cool (under 120°F) dry location. Direct spray away from face. Avoid inhaling mist & vapors. Do not puncture container, contents under pressure.
Other Precautions and/or Special Hazards Keep out of the reach of children. Replace cap when not in use. Do not contaminate water, food, or foodstuffs by use or storage.
Follow label directions. Do not spray into heat sparks, or open flame. Do not incinerate.

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