



B101-0871 Jet Spray Brush Eraser

MATERIAL SAFETY DATA SHEET

RPM Wood Finishes Group
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FOR ALL INTERNATIONAL TRANSPORTATION ACCIDENTS. 1-703-527-3887 (collect)

Health: 2 Flammability: 4 Reactivity 0

PRODUCT NAME: B101-0871 Jet Spray Brush Eraser

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE:	15/09/03
SUPERCEDES:	14/09/01
MSDS NO.	B101-0871
OSHA HAZ. CLASS:	Eye irritant. Neurotoxin - may cause nervous system damage. Mucous membrane (respiratory tract) irritant.

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS #	PEL
n-butyl acetate	41-50	123-86-4	150 ppm TWA; 710 mg/m3 TWA
propane	11-20	74-98-6	1000 ppm TWA; 1800 mg/m3 TWA
ethyl acetate	11-20	141-78-6	400 ppm TWA; 1400 mg/m3 TWA
isobutane	1-10	75-28-5	No PEL established
acetone	1-10	67-64-1	1000 ppm TWA; 2400 mg/m3 TWA
Dipropylene glycol monomethyl ether	1-10	34590-94-8	No PEL established
EEP	1-10	763-69-9	No PEL established
MAK	1-10	110-43-0	100 ppm TWA; 465 mg/m3 TWA
PM acetate	1-10	108-65-6	No PEL established

III. HAZARDS IDENTIFICATION

Routes of Entry: Inhalation, ingestion, skin, eyes.
Medical Conditions Aggravated: Skin disease including eczema and sensitization. Respiratory disease including asthma and bronchitis. Eye disease.

Immediate (Acute) Health Effects

Inhalation: High concentrations may be fatal. Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

Skin Contact: Substance causes moderate skin irritation. Can cause minor skin irritation, defatting, and dermatitis.

Eye Contact:	Mildly irritating but will not injure eye tissue. Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Skin Absorption:	No absorption hazard in normal industrial use. Minimal hazard in normal industrial use. May cause gastrointestinal discomfort.
Ingestion:	Harmful if swallowed. Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.
Target Organ Acute Toxicity:	
n-Butyl acetate	eyes, skin, respiratory system, CNS
Propane	CNS
Ethylacetate	eyes, skin, respiratory system
Isobutane	CNS
Acetone	respiratory system, skin, eyes, CNS
Dipropylene glycol, methyl ether	eyes, respiratory system, CNS
Methyl n-amyl ketone	skin, eyes, CNS, PNS, respiratory system

Long-Term (Chronic) Health Effects:

Carcinogenicity: ACGIH. IARC. NIOSH. NTP. OSHA. None of the substances have been shown to cause cancer in long term animal studies. Not a carcinogen according to NTP, IARC, or OSHA.

Reproductive and Developmental Toxicity: No information available.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

Inhalation: Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

Skin Contact: Prolonged or repeated contact may cause irritation. Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Eye Contact: Upon prolonged or repeated contact, can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

Skin Absorption: Upon prolonged or repeated exposure, minimal hazard in normal industrial use. May cause gastrointestinal discomfort.

Target Organ Chronic Toxicity: Skin. Respiratory Tract. Nervous System. Eyes. Skin. Eyes. Nervous System. Respiratory Tract.

Supplemental Health Hazard Information: No additional health information available.

IV. FIRST AID

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact: Wash with soap and water. Wash with soap and water. Get medical attention if irritation develops or persists.

Ingestion: No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.

Notes to MD: No additional first aid information available.

V. FIRE FIGHTING MEASURES

Flammability Summary:

Flash Point: -144 (CALC.) °F
Upper Flammable/Explosive Limit, % in air: 12.8 @ 77° F
Lower Flammable/Explosive Limit, % in air: 2.0 @ 77° F

Fire Hazards: Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back.

Extinguishing Media: Flammable component(s) of this material may be lighter than water and burn while floating on the surface. H₂O, CO₂, dry chemical, foam. Carbon dioxide Use alcohol resistant spray, Carbon Dioxide, water spray or dry chemical to extinguish a fire involving this chemical. Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire.

Fire Fighting Instructions: Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Do not enter fire area without proper protection including self-contained toxic breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide Toxic fumes. Toxic gases

VI. ACCIDENTAL RELEASE MEASURES

Health Consideration for Spill Response: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

**Spill Mitigation Procedures
General Methods:**

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

VII. HANDLING AND STORAGE

Handling:

Use spark-proof tools and explosion-proof equipment. Wash thoroughly after handling. Avoid contact with material. Ground and bond containers when transferring material. Keep in air-tight containers- material is hygroscopic. Remove contaminated clothing and wash before reuse. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Harmful or irritating material. Avoid contact and avoid breathing the material. Use only in a well ventilated area.

Storage:

Keep away from sources of ignition. Keep away from heat, sparks, and flame. Keep container closed when not in use. Avoid exposure to sunlight or ultraviolet (UV) light sources. Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed.

VIII. ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

Engineering Controls:

Ventilation should effectively remove and prevent buildup of any vapor/mist/fume generated from the handling of this product. Explosion proof exhaust ventilation should be used. No exposure limits exist for the constituents of this product. Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

Protective Equipment

Respiratory Tract:

Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical certification, training, fit testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage should be implemented.

Eyes:

Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.

Skin:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

IX. PHYSICAL DATA

Physical State:

CLEAR LIQUID

Odor:

STRONG SOLVENT

Solids Vol %:

0.0000

Solids Wt %:	0.0000
Material VOC lbs/gal:	6.0951
Material VOC gms/l:	731.963
Coatings VOC lbs/gal:	6.4142
Coatings VOC gms/l:	770.2912
Weight per gallon:	6.4378

X. STABILITY AND REACTIVITY

Stability Information:	Stable. Normally stable. Keep away from heat, sparks and flame.
Conditions to Avoid:	Avoid: heat, sparks, flame and oxidizing agents. Contact with air. Visible light. None known.
Chemical Incompatibility:	Strong alkalies. Strong acids. Strong oxidizing agents.

XI. TOXICOLOGICAL INFORMATION

Chemical Name	CAS Number	LD50/LC50
Acetic acid, butyl ester	123-86-4	Inhalation LC50 Rat : 2000 ppm/4H; Inhalation LC50 Mouse : 6 gm/m3/2H; Oral LD50 Rat : 10768 mg/kg; Oral LD50 Mouse : 6 gm/kg; Dermal LD50 Rabbit : >17600 mg/kg
Acetic acid, ethyl ester	141-78-6	Inhalation LC50 Rat : 200 gm/m3; Inhalation LC50 Mouse : 45 gm/m3/2H; Oral LD50 Rat : 5620 mg/kg; Oral LD50 Mouse : 4100 mg/kg; Dermal LD50 Rabbit : >20 mL/kg
Propane, 2-methyl-Acetone	75-28-5 67-64-1	Inhalation LC50 Rat : 57 pph/15M Inhalation LC50 Rat : 50100 mg/m3/8H; Inhalation LC50 Mouse : 44 gm/m3/4H; Oral LD50 Rat : 5800 mg/kg; Oral LD50 Mouse : 3 gm/kg
Dipropylene glycol, monomethyl ether	34590-94-8	Oral LD50 Rat : 5400 uL/kg; Dermal LD50 Rabbit : 10 mL/kg
Propionic acid, 3-ethoxy-, ethyl ester	763-69-9	Oral LD50 Rat : 5 gm/kg; Dermal LD50 Rabbit : 10 mL/kg
2-Heptanone	110-43-0	Oral LD50 Rat : 1670 mg/kg; Oral LD50 Mouse : 730 mg/kg; Dermal LD50 Rabbit : 12600 uL/kg
Acetic acid, 2-methoxy-1-methylethyl ester	108-65-6	Oral LD50 Rat : 8532 mg/kg; Dermal LD50 Rabbit : >5 gm/kg

XII. ECOLOGICAL INFORMATION

Overview (for ingredients):	Keep out of waterways. Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
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XIII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product:	The waste may be a listed hazardous waste. The waste may be a listed and/or characteristic hazardous waste. Spent or discarded material is a hazardous waste.
Disposal Methods:	Comply with all Local, State, Federal, and Provincial Environmental Regulations. Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Potential EPA Waste Codes:	If discarded, this product is considered a RCRA ignitable waste, D001.

Components Subject to USEPA Land Disposal Restrictions:

Ethylacetate	141-78-6	14.7 %
Acetone	67-64-1	5.11 %

XIV. TRANSPORTATION INFORMATION

DOT Compressed gas, flammable, n.o.s., 2.1, UN 1954 (contains)

XV. REGULATORY INFORMATION

Chemical Name	Regulation	CASRN	%
No 313-listed chemicals in this product	SARA 313 Reportable:		
n-butyl acetate	New Jersey Right To Know:	123-86-4	44.09
propane	New Jersey Right To Know:	74-98-6	14.73
ethyl acetate	New Jersey Right To Know:	141-78-6	14.7
Isobutane	New Jersey Right To Know:	75-28-5	6.67
acetone	New Jersey Right To Know:	67-64-1	5.11

XVI. ADDITIONAL INFORMATION

Other Information:

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MSDS glossary.