



B611-01006 Flattener

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: 3 Reactivity 0

PRODUCT NAME: B611-01006 Flattener

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 19/02/02
SUPERCEDES: None
MSDS NO. B610-01006
OSHA HAZ. CLASS: Mucous membrane (respiratory tract) irritant. Neurotoxin - may cause nervous system damage. Eye irritant. Hepatotoxin - may cause liver damage.

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS #	PEL
isopropanol	11-20	67-63-0	400 ppm TWA; 980 mg/m3 TWA
Toluene	11-20	108-88-3	200 ppm TWA; C 300 ppm
Nitrocellulose	11-20	9004-70-0	No PEL established
Isopropyl Acetate	11-20	108-21-4	250 ppm TWA; 950 mg/m3 TWA
Amorphous Precipitated Silica - Wax Coated	1-10	112926-00-8	see Table Z-3
4-Methyl-2-pentanone	1-10	108-10-1	100 ppm TWA; 410 mg/m3 TWA
n-Butyl acetate	1-10	123-86-4	150 ppm TWA; 710 mg/m3 TWA
Ethyl Acetate	1-10	141-78-6	400 ppm TWA; 1400 mg/m3 TWA
2-Methylpropyl isobutyrate	1-10	97-85-8	No PEL established
1,2 Benzenedicarboxylic acid, di C8-10 br alkyl ester	1-10	68515-48-0	No PEL established
Silica	1-10	68611-44-9	No PEL established

III. HAZARDS IDENTIFICATION

Routes of Entry: Absorption., Inhalation, ingestion, skin, eyes.
Medical Conditions Aggravated: Skin disease including eczema and sensitization. Eye disease. Kidney disease. Liver disease. Pre-existing skin or respiratory conditions.

Immediate (Acute) Health Effects

Inhalation: Irritation may be delayed for several hours. Can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.

Skin Contact: Substance causes moderate skin irritation. Continued or prolonged contact may irritate the skin and cause a skin rash (dermatitis). Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.

Eye Contact: Can cause mechanical irritation if dusts are generated. Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.

Skin Absorption: Can be absorbed through the skin but exposure must be extensive before adverse health effects occur. { A single exposure is not likely to result in the product being absorbed through the skin in harmful amounts. Harmful if absorbed through the skin. May cause severe irritation and systemic damage.

Ingestion: Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal. Harmful if swallowed. Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.

Target Organ Acute Toxicity:

Isopropyl alcohol	eyes, skin, respiratory system
Toluene	CNS, liver, kidneys, skin, eyes, respiratory system
Isopropyl acetate	eyes, skin, respiratory system, CNS
Hexone	eyes, skin, CNS, respiratory system, liver, kidneys
n-Butyl acetate	eyes, skin, respiratory system, CNS
Ethylacetate	eyes, skin, respiratory system

Long-Term (Chronic) Health Effects:

Carcinogenicity: Contains a substance that is a probable cancer hazard based on human studies.

Reproductive and Developmental Toxicity: Possible reproductive hazard.

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

Skin Contact: Prolonged or repeated contact may cause irritation.

Eye Contact: Upon prolonged or repeated contact, dust contact can cause mechanical irritation.

Skin Absorption: Contains methanol. Upon prolonged or repeated exposure, may cause deterioration of the optic nerve if large quantities are absorbed through the skin. Repeated absorption of large quantities may lead to blindness.
Skin sensitization, characterized by redness, inflammation, itching and/or burning may result from prolonged or repeated contact with this material.

Target Organ Chronic Toxicity: Skin. Respiratory Tract. Eyes. Nervous System. Kidneys. Liver. Skin. Respiratory Tract. Nervous System. Eyes. Liver. None known.

Supplemental Health Hazard Information: No additional health information available.

IV. FIRST AID

Inhalation:	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.
Eyes:	Immediately flush eyes with plenty of water. Get medical attention, if irritation persists. { Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.Immediately 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 and monitor the eye daily as advised by your physician.
Skin Contact:	Wash with soap and water. Get medical attention if irritation develops or persists.Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
Ingestion:	Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal. { First aid is normally not required.Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this MSDS.
Notes to MD:	No additional first aid information available.

V. FIRE FIGHTING MEASURES

Flammability Summary:

Flash Point:	-20C; -4F
Autoignition Temperature:	399 deg. C
Upper Flammable/Explosive Limit, % in air:	36.0 @ 77° F
Lower Flammable/Explosive Limit, % in air:	1.4 @ 77° F

Fire Hazards: Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death. Container may explode in heat of fire.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: Alcohol foam Dry chemical Flammable component(s) of this material may be lighter than water and burn while floating on the surface. H₂O, CO₂, dry chemical, foam. Use methods suitable to fight surrounding fire. Carbon dioxideUse 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: Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death. Container may explode in heat of fire. 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.

Hazardous Combustion Products: Hydrogen cyanide Nitrogen containing gases Carbon dioxide, Carbon monoxide
Toxic gases

VI. ACCIDENTAL RELEASE MEASURES

Health Consideration for Spill Response: Surfaces may become slippery after spillage. No adverse health effects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section VIII of this MSDS.

Spill Mitigation Procedures General Methods: Avoid runoff into storm sewers and ditches that lead to waterways. Avoid creating dusts. Cover material with absorbent and moisten. Eliminate sources of ignition and collect for disposal. No special spill clean-up considerations. Collect and discard in regular trash.

VII. HANDLING AND STORAGE

Handling: Use spark-proof tools and explosion-proof equipment. Wash thoroughly after handling. Avoid contact with material. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Remove contaminated clothing and wash before reuse. Use bonding and grounding when transferring quantities of material. Ground and bond containers when transferring material.

Storage: Keep away from sources of ignition. Store in a cool place in original container and protect from sunlight. Keep away from heat, sparks, and flame. Keep container closed when not in use. Do not store in direct sunlight.

VIII. ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

Engineering Controls: Explosion proof exhaust ventilation should be used.

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: Cloudy Liquid
Odor: Strong Solvent
Solids Vol %: 16.1675
Solids Wt %: 27.8915
Material VOC lbs/gal: 5.8222
Material VOC gms/l: 699.19
Weight per gallon: 8.1572000

X. STABILITY AND REACTIVITY

Stability Information: Stable.

Conditions to Avoid: Avoid: heat, sparks, flame and oxidizing agents. Contact with oxidizing materials. Contact with air.

Chemical Incompatibility: Strong oxidizing agents. Amines. Strong acids. Strong alkalies. Oxidizing materials.

Hazardous Polymerization: Hazardous Polymerization will not occur.

XI. TOXICOLOGICAL INFORMATION

Chemical Name	CAS Number	LD50/LC50
Isopropyl alcohol	67-63-0	Inhalation LC50 Rat : 16000 ppm/8H; Oral LD50 Rat : 5045 mg/kg; Oral LD50 Mouse : 3600 mg/kg; Dermal LD50 Rabbit : 12800 mg/kg
Toluene	108-88-3	Inhalation LC50 Rat : 49 gm/m ³ /4H; Inhalation LC50 Mouse : 400 ppm/24H; Oral LD50 Rat : 636 mg/kg; Dermal LD50 Rabbit : 14100 uL/kg
Nitrocellulose	9004-70-0	Oral LD50 Rat : >5 gm/kg; Oral LD50 Mouse : >5 gm/kg
Acetic acid, isopropyl ester	108-21-4	Inhalation LC50 Rat : 50600 mg/m ³ /8H; Oral LD50 Rat : 6750 mg/kg; Dermal LD50 Rabbit : >20 mL/kg
2-Pentanone, 4-methyl-	108-10-1	Inhalation LC50 Mouse : 23300 mg/m ³ ; Oral LD50 Rat : 2080 mg/kg; Oral LD50 Mouse : 2671 mg/kg; Dermal LD50 Rabbit : >20 mL/kg
Acetic acid, butyl ester	123-86-4	Inhalation LC50 Rat : 2000 ppm/4H; Inhalation LC50 Mouse : 6 gm/m ³ /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/m ³ ; Inhalation LC50 Mouse : 45 gm/m ³ /2H; Oral LD50 Rat : 5620 mg/kg; Oral LD50 Mouse : 4100 mg/kg; Dermal LD50 Rabbit : >20 mL/kg
Isobutyric acid, isobutyl ester	97-85-8	Inhalation LC50 Rat : 5000 ppm/6H; Oral LD50 Rat : 12800 mg/kg; Dermal LD50 Rabbit : >8600 mg/kg

XII. ECOLOGICAL INFORMATION

Overview (for ingredients): No data available.

Ecological Toxicity Values:

XIII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product: The waste may be a "special" waste. The waste may be a characteristic hazardous waste. The waste may be a listed hazardous waste. Spent or discarded material is a hazardous waste.

Disposal Methods: 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:

Toluene	108-88-3	15.47 %
Methyl isobutyl ketone	108-10-1	9.42 %
Ethylacetate	141-78-6	5.95 %

XIV. TRANSPORTATION INFORMATION

DOT Other Regulated Substances, Liquid, NOS Haz Class 9 NA 3082 PGIII

XV. REGULATORY INFORMATION

Toxic Substances Control Act (TSCA):

Chemical Name	Regulation	CASRN	%
Isopropyl alcohol	SARA 313 Reportable:	67-63-0	18.8
Toluene	SARA 313 Reportable:	108-88-3	15.47
Methylisobutyl ketone	SARA 313 Reportable:	108-10-1	9.42
Toluene	California Proposition 65 Developmental Toxicity:	108-88-3	15.47
isopropanol	New Jersey Right To Know:	67-63-0	18.8
Toluene	New Jersey Right To Know:	108-88-3	15.47
Nitrocellulose	New Jersey Right To Know:	9004-70-0	11.48
Isopropyl Acetate	New Jersey Right To Know:	108-21-4	10.51
Amorphous Precipitated Silica - Wax Coated	New Jersey Right To Know:	112926-00-8	9.72

XVI. ADDITIONAL INFORMATION

Other Information: IMPORTANT: WHILE THE DESCRIPTIONS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU PERFORM AN ASSESSMENT TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED, DATA OR INFORMATION SET FORTH. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, OR DATA PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, THE DESCRIPTIONS, DATA AND INFORMATION FURNISHED HEREUNDER ARE GIVEN GRATIS. NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DATA AND INFORMATION GIVEN ARE ASSUMED. ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

MSDS glossary.