

Safety Data Sheet

1. Identification

1.1 Product Name	BATHWORKS® DIY Refinishing Kit - Part A Base Color	
1.2 Distributor	Munro Products 9150 Clarence Center Road Clarence Center, NY 14032	(716) 741-9450 www.bath-works.net
1.3 Emergency Information	CHEMTREC® Poison Control Center	(800) 424-9300 (800) 854-6813

2. Hazard Identification

2.1 Classification of the substance or mixture

Flam. Liq. 3;	H226 Flammable liquid and vapor.
Org. Perox. C;	H242 Heating may cause a fire.
Skin Irrit. 3;	H316 Causes mild skin irritation.
Eye Irrit. 2;	H319 Causes serious eye irritation.
Skin Sens. 1;	H317 May cause an allergic skin reaction.
Aquatic Acute 2;	H401 Toxic to aquatic life.
Aquatic Chronic 3;	H412 Harmful to aquatic life with long lasting effects

2.2 Label Elements



Flammable



Danger

H226 Flammable liquid and vapor.

H242 Heating may cause a fire.

H316 Causes mild skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P234 Keep only in original container.

P260 Do not breathe mist / vapors / spray.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P262 Do not get in eyes, on skin, or on clothing.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+352 IF ON SKIN: Wash with soap and water.

P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P331 Do NOT induce vomiting.
 P332+313 If skin irritation occurs: Get medical advice/attention.
 P333 If skin irritation or a rash occurs:.
 P337 If eye irritation persists:.
 P363 Wash contaminated clothing before reuse.
 P370 In case of fire: Use water spray, fog, or regular foam..
 P403+233 Store in a well ventilated place. Keep container tightly closed.
 P410 Protect from sunlight.
 P420 Store away from other materials.
 P501 Dispose of contents / container in accordance with local / national regulations.

2.3 HMIS Rating

Health: 3

Flammability: 3

Reactivity: 0

3. Ingredient Composition

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Titanium dioxide CAS Number: 0013463-67-7	10 - 25	----	[1][2]
ACRYLIC POLYMER (PROPRIETARY) CAS Number: Proprietary	10 - 25	Eye Dam. 2A;H319	[1]
Methyl n-amyl ketone CAS Number: 0000110-43-0	10 - 25	Flam. Liq. 3;H226 Acute Tox. 4;H332 Acute Tox. 4;H302	[1][2]
Barium sulfate CAS Number: 0007727-43-7	10 - 25	----	[1][2]
BUTYL ACETATE CAS Number: 0000123-86-4	1.0 - 10	Flam. Liq. 3;H226 STOT SE 3;H336	[1][2]
Silica, amorphous CAS Number: 0007631-86-9	1.0 - 10	----	[1][2]
Aluminum hydroxide CAS Number: 0021645-51-2	1.0 - 10	Eye Irrit. 2;H319 STOT SE 3;H335	[1]
Ethyl orthoformate CAS Number: 0000122-51-0	1.0 - 10	Flam. Liq. 2;H225	[1]
Mixed Diamedes Compound (Proprietary) CAS Number: Proprietary	1.0 - 10	----	[1]
Dicumyl peroxide CAS Number: 0000080-43-3	1.0 - 10	Org. Perox. F;H242 Eye Irrit. 2;H319 Skin Irrit. 2;H315 Aquatic Chronic 2;H411	[1]
BUTYL PEROXYBENZOATE CAS Number: 0000614-45-9	1.0 - 10	Org. Perox. C;H242 Acute Tox. 4;H332 Skin Irrit. 2;H315 Skin Sens. 1;H317 Aquatic Acute 1;H400	[1]
Bis (1,2,2,6,6-pentamethyl-4-piperidiny)l sebacate CAS Number: 0041556-26-7	0.10 - 1.0	Skin Sens. 1;H317 Aquatic Chronic 1;H410 Aquatic Acute 1;H400	[1]
DECANEDIOIC ACID, METHYL 1,2,2,6,6-PENTAMETHYL-4-P CAS Number: 0082919-37-7	0.10 - 1.0	Skin Sens. 1;H317 Aquatic Chronic 1;H410	[1]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16

4. First Aid

4.1 General First Aid Measures

General	Remove contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean or destroy contaminated shoes.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Eyes	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin	In case of contact, immediately flush skin with soap and plenty of water. Get medical attention immediately.
Ingestion	If swallowed, immediately contact Poison Control Center at 1-800-854-6813. DO NOT induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Overview	NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Avoid contact with eyes, skin and clothing.
Inhalation	Harmful if inhaled. Causes nose and throat irritation. Vapors may affect the brain or nervous system causing dizziness, headache or nausea.
Eyes	Causes severe eye irritation. Avoid contact with eyes.
Skin	Causes skin irritation. May cause allergic skin reaction. May be harmful if absorbed through the skin.
Ingestion	Harmful if swallowed. May cause abdominal pain, nausea, vomiting, diarrhea, or drowsiness.
Chronic effects	Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data (See Section 2 and Section 15 for each ingredient). Risk of cancer depends on duration and level of exposure.

5. Firefighting

5.1 Extinguishing media

CAUTION:	This product has a very low flashpoint. Use of water spray when fighting fire may be inefficient.
CAUTION:	For mixtures containing alcohol or polar solvent, alcohol-resistant foam may be more effective.
Small Fires:	Use dry chemical, CO ₂ , water spray or regular foam. LARGE FIRES: Use water spray, fog, or regular foam. Do not use straight streams. Move containers from fire area if you can do so without risk.

5.2 Special hazards arising from the substance or mixture

HIGHLY FLAMMABLE MATERIALS:	Will be easily ignited by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks) creating a vapor explosion hazard. Runoff to sewers may create fire or explosion hazard. Containers may explode when heated. Many liquids are lighter than water.
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5.3 Advice for fire-fighters

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water courses.

5.4 ERG Guide No. 128

6. Accidental Release

- 6.1 Personal precautions, protective equipment and emergency procedures
ELIMINATE ALL IGNITION SOURCES (no smoking, flares, sparks or flames in immediate area). Use only non-sparking equipment to handle spilled material and absorbent. Do not touch or walk through spilled material. Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers. Use non-sparking tools to collect absorbed material.
- 6.2. Environmental precautions
 Do not allow spills to enter drains or watercourses.
- 6.3. Methods and material for containment and cleaning up
CALL CHEMTREC at (800)-424-9300 for emergency response. Isolate spill or leak area immediately for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. **LARGE SPILLS:** Consider initial downwind evacuation for at least 300 meters (1000 feet).

7. Handling & Storage

- 7.1. Precautions for safe handling
- | | |
|------------|--|
| Handling | Vapors may cause flash fire or ignite explosively. |
| In Storage | Keep away from heat, sparks and flame. |
- 7.2. Conditions for safe storage, including any incompatibilities Store between 40-100F (4-38C).
 Do not get in eyes, on skin or clothing. Strong oxidizing agents.

 Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone.
- 7.3. Specific end use(s)
 Close container after each use. Wash thoroughly after handling.
 Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation

8. Exposure Controls & Personal Protection

8.1 Control Parameters

CAS No.	Ingredient	Source	Value
0000080-43-3	Dicumyl peroxide	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit
0000110-43-0	Methyl n-amyl ketone	OSHA	100 ppm TWA; 465 mg/m3 TWA
		ACGIH	50 ppm TWA
		NIOSH	100 ppm TWA; 465 mg/m3 TWA800 ppm IDLH
		Supplier	No Established Limit
		OHSA, CAN	25 ppm TWA; 115 mg/m3 TWA
		Mexico	50 ppm TWA LMPE-PPT; 235 mg/m3 TWA LMPE-PPT100 ppm STEL [LMPE-CT]; 465 mg/m3 STEL
		Brazil	No Established Limit
0000122-51-0	Ethyl orthoformate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit
0000123-86-4	BUTYL ACETATE	OSHA	150 ppm TWA; 710 mg/m ³ TWA200 ppm STEL; 950 mg/m ³ STEL
		ACGIH	150 ppm TWA200 ppm STEL
		NIOSH	150 ppm TWA; 710 mg/m ³ TWA200 ppm STEL; 950 mg/m ³ STEL1700 ppm IDLH (10% LEL)
		Supplier	No Established Limit
		OHSA, CAN	150 ppm TWA200 ppm STEL
		Mexico	150 ppm TWA LMPE-PPT; 710 mg/m ³ TWA LMPE-PPT200 ppm STEL [LMPE-CT]; 950 mg/m ³ STEL [LMPE-CT]
		Brazil	No Established Limit
0000614-45-9	BUTYL PEROXYBENZOATE	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit
0007631-86-9	Silica, amorphous	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	6 mg/m ³ TWA3000 mg/m ³ IDLH
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit
0007727-43-7	Barium sulfate	OSHA	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)
		ACGIH	10 mg/m ³ TWA
		NIOSH	10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)
		Supplier	No Established Limit
		OHSA, CAN	10 mg/m ³ TWA
		Mexico	No Established Limit
		Brazil	No Established Limit
0013463-67-7	Titanium dioxide	OSHA	15 mg/m ³ TWA (total dust)
		ACGIH	10 mg/m ³ TWA
		NIOSH	5000 mg/m ³ IDLH
		Supplier	No Established Limit
		OHSA, CAN	10 mg/m ³ TWA
		Mexico	10 mg/m ³ TWA LMPE-PPT (as Ti)20 mg/m ³ STEL [LMPE-CT] (as Ti)
		Brazil	No Established Limit
0021645-51-2	Aluminum hydroxide	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit

		Mexico	No Established Limit
		Brazil	No Established Limit
0041556-26-7	Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit
0082919-37-7	DECANEDIOIC ACID, METHYL 1,2,2,6,6-PENTAMETHYL-4-P	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit
Proprietary	Mixed Diamedes Compound (Proprietary)	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit
Proprietary	ACRYLIC POLYMER (PROPRIETARY)	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit

Health Data			
CAS No.	Ingredient	Source	Value
0000080-43-3	Dicumyl peroxide	NIOSH	No Established Limit
0000110-43-0	Methyl n-amyl ketone	NIOSH	Irritation; liver kidney
0000122-51-0	Ethyl orthoformate	NIOSH	No Established Limit
0000123-86-4	BUTYL ACETATE	NIOSH	Mucous membrane and eye irritation; high concentrations
0000614-45-9	BUTYL PEROXYBENZOATE	NIOSH	No Established Limit
0007631-86-9	Silica, amorphous	NIOSH	No Established Limit
0007727-43-7	Barium sulfate	NIOSH	Eye nose
0013463-67-7	Titanium dioxide	NIOSH	Lung tumors in animals
0021645-51-2	Aluminum hydroxide	NIOSH	No Established Limit
0041556-26-7	Bis (1,2,2,6,6-pentamethyl-4-sebacate piperidinyl)	NIOSH	No Established Limit
0082919-37-7	DECANEDIOIC ACID, METHYL 1,2,2,6,6-	NIOSH	No Established Limit
Proprietary	Mixed Diamedes Compound	NIOSH	No Established Limit
Proprietary	ACRYLIC POLYMER	NIOSH	No Established Limit

CAS No.	Ingredient	Source	Value
0000080-43-3	Dicumyl peroxide	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No

		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000110-43-0	Methyl n-amyl ketone	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000122-51-0	Ethyl orthoformate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000123-86-4	BUTYL ACETATE	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000614-45-9	BUTYL PEROXYBENZOATE	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0007631-86-9	Silica, amorphous	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
0007727-43-7	Barium sulfate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0013463-67-7	Titanium dioxide	OSHA	Select Carcinogen: Yes
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No; Group 4: No;
0021645-51-2	Aluminum hydroxide	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0041556-26-7	Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0082919-37-7	DECANEDIOIC ACID, METHYL 1,2,2,6,6-PENTAMETHYL-4-P	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
Proprietary	Mixed Diamedes Compound (Proprietary)	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
Proprietary	ACRYLIC POLYMER (PROPRIETARY)	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No

8.2 Exposure Controls

Respiratory	Select equipment to provide protection from the ingredients listed in Section 3 of this document. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates dust, vapor, or mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. FOR USERS OF 3M RESPIRATORY PROTECTION ONLY: For information and assistance on 3M occupational health and safety products, call OH&ESD Technical Service toll free in U.S.A. 1-800-243-4630, in Canada call 1-800-267-4414. Please do not contact these numbers regarding other manufacturer's respiratory protection products. 3M does not endorse the accuracy of the information contained in this Material Safety Data Sheet.
Eyes	Avoid contact with eyes. Protective equipment should be selected to provide protection from exposure to the chemicals listed in Section 3 of this document. Depending on the site-specific conditions of use, safety glasses, chemical goggles, and/or head and face protection may be required to prevent contact. The equipment must be thoroughly cleaned, or discarded after each use.
Skin	Protective equipment should be selected to provide protection from exposure to the chemicals listed in Section 3 of this document. Depending on the site-specific conditions of use, protective gloves, apron, boots, head and face protection may be required to prevent contact. The equipment must be thoroughly cleaned, or discarded after each use.
Engineering Controls	Depending on the site-specific conditions of use, provide adequate ventilation.
Other Work Practices	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use good personal hygiene practices. Wash hands before eating, drinking, using toilet facilities, etc. Promptly remove soiled clothing and wash clothing thoroughly before reuse. Shower after work using plenty of soap and water.

9. Physical & Chemical Properties

Appearance	Colored Liquid
Odor threshold	Not Measured
pH	No Established Limit
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	100 (C) 212 (F)
Flash Point	27 (C) 80 (F)
Evaporation rate (Ether = 1)	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: .6 Upper Explosive Limit: No Established Limit
Vapor pressure (Pa)	Not Measured
Vapor Density	Heavier than air
Specific Gravity	1.28
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured

Viscosity (cSt)

No Established Limit Not Measured

VOC %

Refer to the Technical Data Sheet or label where information is available.

10. Stability & Reactivity	
10.1. Reactivity	No data available
10.2. Chemical stability	This product is stable and hazardous polymerization will not occur. Not sensitive to mechanical impact. Excessive heat and fumes generation can occur if improperly handled.
10.3. Possibility of hazardous reactions	No data available
10.4. Conditions to avoid	No data available
10.5. Incompatible materials	Strong oxidizing agents.
10.6. Hazardous decomposition products	HIGHLY FLAMMABLE MATERIALS: Will be easily ignited by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks) creating a vapor explosion hazard. Runoff to sewers may create fire or explosion hazard. Containers may explode when heated. Many liquids are lighter than water.

11. Toxicological Information

Acute toxicity

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

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr
Titanium dioxide - (13463-67-7)	10,000.00, Rat - Category: NA	10,000.00, Rabbit - Category: NA	No data available	6.82, Rat - Category: NA
ACRYLIC POLYMER (PROPRIETARY) - (Proprietary)	No data available	No data available	No data available	No data available
Methyl n-amyl ketone - (110-43-0)	1,670.00, Rat - Category: 4	12,600.00, Rabbit - Category: NA	No data available	No data available
Barium sulfate - (7727-43-7)	3,000.00, Mouse - Category: 5	No data available	No data available	No data available
BUTYL ACETATE - (123-86-4)	10,700.00, Rat - Category: NA	17,600.00, Rabbit - Category: NA	No data available	No data available
Silica, amorphous - (7631-86-9)	5,110.00, Rat - Category: NA	5,000.00, Rabbit - Category: 5	No data available	No data available
Aluminum hydroxide - (21645-51-2)	5,000.00, Rat - Category: 5	No data available	No data available	No data available
Ethyl orthoformate - (122-51-0)	7,060.00, Rat - Category: NA	17,820.00, Rabbit - Category: NA	No data available	No data available

Mixed Diamedes Compound (Proprietary) - (Proprietary)	No data available	No data available	No data available	No data available
Dicumyl peroxide - (80-43-3)	4,000.00, Rat - Category: 5	No data available	No data available	No data available
BUTYL PEROXYBENZOATE - (614-45-9)	4,838.00, Rat - Category: 5	2,000.00, Rabbit - Category: 4	No data available	4.90, Rat - Category: 4
Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate - (41556-26-7)	2,615.00, Rat - Category: 5	No data available	No data available	No data available
DECANEDIOIC ACID, METHYL 1,2,2,6,6-PENTAMETHYL-4-P -	No data available	No data	No data available	No data available

Item	Category	Hazard
Acute Toxicity (mouth)	Not Classified	Not Applicable
Acute Toxicity (skin)	Not Classified	Not Applicable
Acute Toxicity (inhalation)	Not Classified	Not Applicable
Skin corrosion/irritation	3	Causes mild skin irritation.
Eye damage/irritation	2	Causes serious eye irritation.
Sensitization (respiratory)	Not Classified	Not Applicable
Sensitization (skin)	1	May cause an allergic skin reaction.
Germ toxicity	Not Classified	Not Applicable
Carcinogenicity	Not Classified	Not Applicable
Reproductive Toxicity	Not Classified	Not Applicable
Specific target organ systemic toxicity (single exposure)	Not Classified	Not Applicable
Specific target organ systemic Toxicity (repeated exposure)	Not Classified	Not Applicable
Aspiration hazard	Not Classified	Not Applicable

12. Ecological Information

12.1 Toxicity No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Titanium dioxide - (13463-67-7)	1,000.00, Fundulus heteroclitus	5.50, Daphnia magna	5.83 (72 hr), Pseudokirchneriella subcapitata
ACRYLIC POLYMER (PROPRIETARY) - (Proprietary)	Not Available	Not Available	Not Available
Methyl n-amyl ketone - (110-43-0)	131.00, Pimephales promelas	Not Available	Not Available
Barium sulfate - (7727-43-7)	59,000.00, Poecilia sphenops	32.00, Daphnia magna	Not Available
BUTYL ACETATE - (123-86-4)	18.00, Pimephales promelas	32.00, Artemia salina	674.70 (72 hr), Scenedesmus subspicatus
Silica, amorphous - (7631-86-9)	10,000.00, Danio rerio	10,000.00, Daphnia magna	10,000.00 (72 hr), Scenedesmus subspicatus
Aluminum hydroxide - (21645-51-2)	Not Available	Not Available	Not Available
Ethyl orthoformate - (122-51-0)	592.00, Leuciscus idus	Not Available	Not Available
Mixed Diamedes Compound (Proprietary) - (Proprietary)	Not Available	Not Available	Not Available
Dicumyl peroxide - (80-43-3)	Not Available	Not Available	Not Available

BUTYL PEROXYBENZOATE - (614-45-9)	1.50, Danio rerio	Not Available	Not Available
Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate - (41556-26-7)	1.00, Lepomis macrochirus	20.00, Daphnia magna	Not Available
DECANEDIOIC ACID, METHYL 1,2,2,6,6- PENTAMETHYL-4-P - (82919-37-7)	Not Available	Not Available	Not Available

12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	Not Measured
12.4 Mobility in soil	No data available
12.5 Results of PBT and vPvB assessment	This product contains no PBT/vPvB chemicals.
12.6 Other adverse effects	No data available

13. Disposal Information

13.1. Waste treatment methods

Do not allow spills to enter drains or watercourses.

Dispose of in accordance with local, state and federal regulations. (Also reference RCRA information in Section 15 if listed).

14. Transportation Information

14.1 UN number	UN 1263
14.2 UN proper shipping name	PAINT
14.3 Transport hazard class(es)	

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)
Proper Shipping Name	PAINT	PAINT
UN Number	UN 1263	UN 1263
Hazard Class	3	3, Sub Class 3
Packaging Group	III	III
	CERCLA/DOT RQ: 3482 gal. / 37136 lbs	System Reference Code: 1

14.4 Packing group	III
14.5 Environmental hazards	IMDG Marine Pollutant: No
14.6 Special precautions for user	Not Applicable
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not Applicable

15. Regulatory Information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory
WHMIS Classification	B2 D2B C
DOT Marine Pollutants (10%):	(No Product Ingredients Listed)
DOT Severe Marine Pollutants (1%):	(No Product Ingredients Listed)
EPCRA 311/312 Chemicals and RQs (>.1%):	BUTYL ACETATE (5000 lb final RQ (listed under Butyl acetate); 2270 kg final RQ (listed under Butyl acetate)) Xylenes (o-, m-, p- isomers)(100 lb final RQ; 45.4 kg final RQ)
EPCRA 302 Extremely Hazardous (>.1%):	(No Product Ingredients Listed)
EPCRA 313 Toxic Chemicals (>.1%):	Xylenes (o-, m-, p- isomers)

Mass RTK Substances (>1%) :	Barium sulfate Methyl n-amyl ketone BUTYL ACETATE Silica, amorphous BUTYL PEROXYBENZOATE Titanium dioxide
Penn RTK Substances (>1%) :	Barium sulfate Ethyl orthoformate Methyl n-amyl ketone BUTYL ACETATE Silica, amorphous BUTYL PEROXYBENZOATE Titanium dioxide
Penn Special Hazardous Substances (>.01%) :	(No Product Ingredients Listed)
RCRA Status:	(No Product Ingredients Listed)
N.J. RTK Substances (>1%) :	Barium sulfate Ethyl orthoformate Methyl n-amyl ketone BUTYL ACETATE Silica, amorphous BUTYL PEROXYBENZOATE Titanium dioxide
N.J. Special Hazardous Substances (>.01%) :	Benzene, ethyl- Ethyl orthoformate BUTYL ACETATE Quartz BUTYL PEROXYBENZOATE Xylenes (o-, m-, p- isomers)
N.J. Env. Hazardous Substances (>.1%) :	Xylenes (o-, m-, p- isomers)
Proposition 65 - Carcinogens (>0%):	Benzene, ethyl- Quartz Titanium dioxide
Proposition 65 - Female Repro Toxins (>0%):	(No Product Ingredients Listed)
Proposition 65 - Male Repro Toxins (>0%):	(No Product Ingredients Listed)
Proposition 65 - Developmental Toxins (>0%):	(No Product Ingredients Listed)

16. Other Information

SDS Revision Date:	10/20/2014
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The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

- H225 Highly flammable liquid and vapor.
- H226 Flammable liquid and vapor.
- H242 Heating may cause a fire.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

Safety Data Sheet

1. Identification

1.1 Product Name	BATHWORKS® DIY Refinishing Kit – Part B Base Hardener	
1.2 Distributor	Munro Products	(716) 741-9450
	9150 Clarence Center Road	
	Clarence Center, NY 14032	www.bath-works.net
1.3 Emergency Information	CHEMTREC®	(800) 424-9300
	Poison Control Center	(800) 854-6813

2. Hazard Identification

- 2.1. Classification of the substance or mixture
- Flam. Liq. 3; H226 Flammable liquid and vapor.
 - Skin Sens. 1; H317 May cause an allergic skin reaction.
 - Resp. Sens. 1; H334 May cause allergy or asthma symptoms of breathing difficulties if inhaled.
 - Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Using the Toxicity Data listed in section 11 & 12 the product is labelled as follows.



Danger

H226 Flammable liquid and vapor.

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms of breathing difficulties if inhaled.

H412 Harmful to aquatic life with long lasting effects.

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P260 Do not breathe mist / vapors / spray.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P262 Do not get in eyes, on skin, or on clothing.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

P285 In case of inadequate ventilation wear respiratory protection.

P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+352 IF ON SKIN: Wash with soap and water.

P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P331 Do NOT induce vomiting.

P333+313 If skin irritation or a rash occurs: Get medical advice/attention.

P342+311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor / physician.

P363 Wash contaminated clothing before reuse.

P370 In case of fire:.

P403+233 Store in a well ventilated place. Keep container tightly closed.

2.3 HMIS Rating

Health: 3

Flammability: 3

Reactivity: 0

3. Ingredient Composition

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Hexamethylene diisocyanate homopolymer CAS Number: 0028182-81-2	75 - 100	Skin Sens. 1;H317	[1]
BUTYL ACETATE CAS Number: 0000123-86-4	1.0 - 10	Flam. Liq. 3;H226 STOT SE 3;H336	[1][2]
Petroleum naphtha CAS Number: 0064742-95-6	1.0 - 10	Asp. Tox. 1;H304 Aquatic Chronic 2;H411 (Self Classification)	[1]
Hexamethylene diisocyanate CAS Number: 0000822-06-0	0.10 - 1.0	Acute Tox. 3;H331 Eye Irrit. 2;H319 STOT SE 3;H335 Skin Irrit. 2;H315 Resp. Sens. 1;H334 Skin Sens. 1;H317	[1][2]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First Aid

4.1. Description of first aid measures

General	Remove contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean or destroy contaminated shoes.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Eyes	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin	In case of contact, immediately flush skin with soap and plenty of water. Get medical attention immediately.
Ingestion	If swallowed, immediately contact Poison Control Center at 1-800-854-6813. DO NOT induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to an unconscious person

4.2. Most important symptoms and effects, both acute and delayed

Overview	NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Avoid contact with eyes, skin and clothing. May cause allergic respiratory reaction.
Inhalation	Harmful if inhaled. May cause lung injury. Causes nose and throat irritation. Vapors may affect the brain or nervous system causing dizziness, headache or nausea
Eyes	Causes severe eye irritation. Avoid contact with eyes
Skin	Causes skin irritation. May be harmful if absorbed through the skin
Ingestion	Harmful if swallowed. May cause abdominal pain, nausea, vomiting, diarrhea, or drowsiness.
Chronic effects	None known

5. Firefighting

5.1. Extinguishing media	<p>CAUTION: This product has a very low flashpoint. Use of water spray when fighting fire may be inefficient.</p> <p>CAUTION: For mixtures containing alcohol or polar solvent, alcohol-resistant foam may be more effective.</p> <p>SMALL FIRES: Use dry chemical, CO₂, water spray or regular foam.</p> <p>LARGE FIRES: Use water spray, fog, or regular foam. Do not use straight streams. Move containers from fire area if you can do so without risk.</p>
5.2. Special hazards arising from the substance or mixture	<p>HIGHLY FLAMMABLE MATERIALS: Will be easily ignited by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks) creating a vapor explosion hazard. Runoff to sewers may create fire or explosion hazard. Containers may explode when heated. Many liquids are lighter than water.</p>
5.3. Advice for fire-fighters	<p>Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water courses.</p>
5.4. ERG Number	128

6. Accidental Release

6.1. Personal precautions, protective equipment and emergency procedures	<p>ELIMINATE ALL IGNITION SOURCES (no smoking, flares, sparks or flames in immediate area). Use only non-sparking equipment to handle spilled material and absorbent. Do not touch or walk through spilled material. Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers. Use non-sparking tools to collect absorbed material.</p>
6.2. Environmental precautions	<p>Do not allow spills to enter drains or watercourses.</p>
6.3. Methods and material for containment and cleaning up	<p>CALL CHEMTREC at (800)-424-9300 for emergency response. Isolate spill or leak area immediately for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. LARGE SPILLS: Consider initial downwind evacuation for at least 300 meters (1000 feet).</p>

7. Handling & Storage

7.1. Precautions for safe handling	<p>Handling: Vapors may cause flash fire or ignite explosively.</p> <p>In Storage: Keep away from heat, sparks and flame</p>
7.2. Conditions for safe storage, including any incompatibilities	<p>Store between 40-100F (4-38C).</p> <p>Avoid contact with eyes, skin and clothing.</p> <p>Strong oxidizing agents.</p> <p>Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone</p>
7.3. Specific end use(s)	<p>Close container after each use.</p> <p>Wash thoroughly after handling.</p> <p>Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation.</p>

8. Exposure Controls & Personal Protection

8.1. Control parameters

CAS No.	Ingredient	Source	Value
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0000123-86-4	BUTYL ACETATE	OSHA	150 ppm TWA; 710 mg/m ³ TWA 200 ppm STEL; 950 mg/m ³ STEL
		ACGIH	150 ppm TWA 200 ppm STEL
		NIOSH	150 ppm TWA; 710 mg/m ³ TWA 200 ppm STEL; 950 mg/m ³ STEL 1700 ppm IDLH (10% LEL)
		Supplier	No Established Limit
		OHSA, CAN	150 ppm TWA 200 ppm STEL
		Mexico	150 ppm TWA LMPE-PPT; 710 mg/m ³ TWA LMPE-PPT 200 ppm STEL [LMPE-CT]; 950 mg/m ³ STEL [LMPE-CT]
		Brazil	No Established Limit
		0000822-06-0	Hexamethylene diisocyanate
ACGIH	0.005 ppm TWA		
NIOSH	0.005 ppm TWA; 0.035 mg/m ³ TWA 0.020 ppm Ceiling (10 min); 0.140 mg/m ³ Ceiling (10 min)		
Supplier	No Established Limit		
OHSA, CAN	0.005 ppm TWA (designated substances regulation, listed under Isocyanates, organic compounds); 0.02 ppm Ceiling (designated substances regulation, listed under Isocyanates, organic compounds) 0.005 ppm TWA (listed under Isocyanates, organic compounds (Hexamethylene diisocyanate (HDI)));		
Mexico	No Established Limit		
Brazil	No Established Limit		
0028182-81-2	Hexamethylene diisocyanate homopolymer	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit
0064742-95-6	Petroleum naphtha	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit

Health Data

CAS No.	Ingredient	Source	Value
0000123-86-4	BUTYL ACETATE	NIOSH	Mucous membrane and eye irritation; high concentrations cause nervous system effects in animals
0000822-06-0	Hexamethylene diisocyanate	NIOSH	Respiratory effects and sensitization pulmonary irritation (Listed under
0028182-81-2	Hexamethylene diisocyanate homopolymer	NIOSH	No Established Limit

0064742-95-6	Petroleum naphtha	NIOSH	No Established Limit
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Carcinogen Data

CAS No.	Ingredient	Source	Value
0000123-86-4	BUTYL ACETATE	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000822-06-0	Hexamethylene diisocyanate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0028182-81-2	Hexamethylene diisocyanate homopolymer	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0064742-95-6	Petroleum naphtha	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure Controls

Respiratory

Select equipment to provide protection from the ingredients listed in Section 3 of this document. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates dust, vapor, or mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. FOR USERS OF 3M RESPIRATORY PROTECTION ONLY: For information and assistance on 3M occupational health and safety products, call OH&ESD Technical Service toll free in U.S.A. 1-800-243-4630, in Canada call 1-800-267-4414. Please do not contact these numbers regarding other manufacturer's respiratory protection products. 3M does not endorse the accuracy of the information contained in this Material Safety Data Sheet. INDIVIDUALS WITH LUNG OR BREATHING PROBLEMS OR PRIOR REACTION TO ISOCYANATES

MUST NOT BE EXPOSED TO VAPOR OR SPRAY MIST. Do not breathe vapor or spray mist. Wear an appropriate, properly fitted respirator (NIOSH approved) during and after application unless air monitoring demonstrates vapor/mist levels are below applicable limits. A supplied air respirator (either positive pressure or continuous flow type) is required. Follow manufacturer's directions for respirator use and observe requirements specified in 29 CFR 1910.134.

Eyes

Avoid contact with eyes. Protective equipment should be selected to provide protection from exposure to the chemicals listed in Section 3 of this document. Depending on the site-specific conditions of use, safety glasses, chemical goggles, and/or head and face protection may be required to prevent contact. The equipment must be thoroughly cleaned, or discarded after each use.

Skin

Protective equipment should be selected to provide protection from exposure to the chemicals listed in Section 3 of this document. Depending on the site-specific conditions of use, protective gloves, apron, boots, head and face protection may be required to prevent contact. The equipment must be thoroughly cleaned, or discarded after each use.

Engineering Controls

Depending on the site-specific conditions of use, provide adequate ventilation.

Other Work Practices

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use good personal hygiene practices. Wash hands before eating, drinking, using toilet facilities, etc. Promptly remove

soiled clothing and wash clothing thoroughly before reuse. Shower after work using plenty of soap and water.

9. Physical & Chemical Properties	
Appearance	Colored Liquid
Odour threshold	Not Measured
pH	No Established Limit
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	145 (C) 293 (F)
Flash Point	27 (C) 80 (F)
Evaporation rate (Ether = 1)	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: 0.6 Upper Explosive Limit: No Established Limit
vapor pressure (Pa)	Not Measured
Vapor Density	Heavier than air
Specific Gravity	1.12
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	No Established Limit
VOC %	Refer to the Technical Data Sheet or label where information is available.
Other information	No further information

10. Stability & Reactivity	
10.1. Reactivity	No data available
10.2. Chemical stability	This product is stable and hazardous polymerization will not occur. Not sensitive to mechanical impact. Excessive heat and fumes generation can occur if improperly handled.
10.3. Possibility of hazardous reactions	No data available
10.4. Conditions to avoid	No data available
10.5. Incompatible materials	Strong oxidizing agents.
10.6. Hazardous decomposition products	HIGHLY FLAMMABLE MATERIALS: Will be easily ignited by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks) creating a vapor explosion hazard. Runoff to sewers may create fire or explosion hazard. Containers may explode when heated. Many liquids are lighter than water.

11. Toxicological Information	
Acute toxicity	NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be

harmful or fatal.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr
Hexamethylene diisocyanate homopolymer - (28182-81-2)	5,000.00, Rat - Category: 5	No data available	No data available	No data available
BUTYL ACETATE - (123-86-4)	10,700.00, Rat - Category: NA	17,600.00, Rabbit - Category: NA	No data available	No data available
Petroleum naphtha - (64742-95-6)	6,800.00, Rat -Category: NA	3,400.00, Rabbit - Category: 5	No data available	No data available
Hexamethylene diisocyanate - (822-06-0)	No data available	No data available	No data available	No data available

Item	Category	Hazard
Acute Toxicity (mouth)	Not Classified	Not Applicable
Acute Toxicity (skin)	Not Classified	Not Applicable
Acute Toxicity (inhalation)	Not Classified	Not Applicable
Skin corrosion/irritation	Not Classified	Not Applicable
Eye damage/irritation	Not Classified	Not Applicable
Sensitization (respiratory)	1	May cause allergy or asthma symptoms of breathing difficulties if inhaled.
Sensitization (skin)	1	May cause an allergic skin reaction.
Germ toxicity	Not Classified	Not Applicable
Carcinogenicity	Not Classified	Not Applicable
Reproductive Toxicity	Not Classified	Not Applicable
Specific target organ systemic toxicity (single exposure)	Not Classified	Not Applicable
Specific target organ systemic Toxicity (repeated exposure)	Not Classified	Not Applicable
Aspiration hazard	Not Classified	Not Applicable

12. Ecological Information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Toxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Hexamethylene diisocyanate homopolymer - (28182-81-2)	100.00, Danio rerio	100.00, Daphnia magna	100.00 (72 hr), Scenedesmus subspicatus
BUTYL ACETATE - (123-86-4)	18.00, Pimephales promelas	32.00, Artemia salina	674.70 (72 hr), Scenedesmus subspicatus
Petroleum naphtha - (64742-95-6)	9.22, Oncorhynchus mykiss	6.14, Daphnia magna	19.00 (72 hr), Selenastrum capricornutum
Hexamethylene diisocyanate – (822-06-0)	82.80, Danio rerio	89.10, Daphnia magna	77.40 (72 hr), Desmodesmus subspicatus

- | | |
|--|--|
| 12.1. Persistence and degradability | No data available |
| 12.2. Bioaccumulative potential | Not Measured |
| 12.3. Mobility in soil | No data available |
| 12.4. Results of PBT and vPvB assessment | This product contains no PBT/vPvB chemicals. |
| 12.5. Other adverse effects | No data available |

13. Disposal Information

13.1 Waste treatment methods Do not allow spills to enter drains or watercourses.
Dispose of in accordance with local, state and federal regulations. (Also reference RCRA information in Section 15 if listed).

14. Transportation Information

14.1 UN number UN 1263
14.2 UN proper shipping name PAINT
14.3 Transport hazard class(es)

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)
Proper Shipping Name	PAINT	PAINT
UN Number	UN 1263	UN 1263
Hazard Class	3	3, Sub Class 3
Packaging Group	III	III
	CERCLA/DOT RQ: 5359 gal. / 50000 lbs.	System Reference Code: 1

14.4 Packing group III
14.5 Environmental hazards IMDG Marine Pollutant: No
14.6 Special precautions for user Not Applicable

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not Applicable

15. Regulatory Information

Regulatory Overview

The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.

WHMIS Classification	B2 D2A
DOT Marine Pollutants (10%):	(No Product Ingredients Listed)
DOT Severe Marine Pollutants (1%):	(No Product Ingredients Listed)
EPCRA 311/312 Chemicals and RQs (>.1%):	Benzene, ethyl- (1000 lb final RQ; 454 kg final RQ) Hexamethylene diisocyanate (100 lb final RQ; 45.4 kg final RQ) BUTYL ACETATE (5000 lb final RQ (listed under Butyl acetate); 2270 kg final RQ (listed under Butyl acetate))
EPCRA 302 Extremely Hazardous (>.1%):	(No Product Ingredients Listed)
EPCRA 313 Toxic Chemicals (>.1%):	Benzene, ethyl- Hexamethylene diisocyanate
Mass RTK Substances (>1%) :	BUTYL ACETATE
Penn RTK Substances (>1%) :	BUTYL ACETATE
Penn Special Hazardous Substances (>.01%):	(No Product Ingredients Listed)
RCRA Status:	(No Product Ingredients Listed)
N.J. RTK Substances (>1%):	BUTYL ACETATE
N.J. Special Hazardous Substances (>.01%):	Benzene, ethyl- BUTYL ACETATE
N.J. Env. Hazardous Substances (>.1%):	Benzene, ethyl-
Hexamethylene diisocyanate Proposition 65 - Carcinogens (>0%):	Benzene, ethyl-

Proposition 65 - Female Repro Toxins (No Product Ingredients Listed)
(>0%):
Proposition 65 - Male Repro Toxins (>0%): (No Product Ingredients Listed)
Proposition 65 - Developmental Toxins (No Product Ingredients Listed)
(>0%):

16. Other Information

SDS Revision Date: 3/11/2014

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

- H226 Flammable liquid and vapor.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.

Safety Data Sheet




1. Identification	
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1.1 Product Name	BATHWORKS® DIY White High Speed Filler	
1.2 Distributor	BATHWORKS® Chip Filler	
	Munro Products	(716) 741-9450
	9150 Clarence Center Road Clarence Center, NY 14032	www.bath-works.net
1.3 Emergency Information	CHEMTREC® Poison Control Center	(800) 424-9300 (800) 854-6813

2. Hazard Identification	
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2.1 Classification of the substance or mixture:	Flammable Liquids 3 Skin Corrosion/Irritation 2 Eye Damage/Irritation 2B Acute Toxicity-Inhalation 4
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2.2 GHS label elements:

	Signal Word:	Warning
	Hazard Statement:	Flammable liquid and vapor
	Prevention:	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/eye protection/face protection.
	Response:	If on skin (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: use carbon dioxide, foam, dry chemical or water fog to extinguish fire.
	Storage:	Store in a well-ventilated place. Keep cool.
	Disposal:	Dispose of contents/container by incineration under controlled conditions in accordance with all local and national laws and regulations.
	Signal Word:	Warning
	Hazard Statement:	Causes skin irritation
	Prevention:	Wash hands thoroughly after handling. Wear protective gloves.
	Response:	If on skin: wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash before reuse.
	Signal Word:	Warning
	Hazard Statement:	Causes eye irritation
	Prevention:	Flush eyes thoroughly after eye contact.
	Response:	If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.
	Signal Word:	Warning
	Hazard Statement:	Harmful if inhaled
	Prevention:	Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.
	Response:	If inhaled: remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

2.3 Other hazards which do not result in classification: N/A

2.4 HMIS Rating Health: 2 Flammability: 3 Reactivity: 1

3. Ingredient Composition

3.1 Mixtures

Chemical Identity	CAS No.	Concentration
Polyester Resin	28472-89-1	20%
Unsaturated Polyester Resin	Proprietary	3%
Styrene Monomer	100-42-5	10%
Sodium Borosilicate Glass	65997-17-3	5%
Magnesium Silicate	14807-96-6	40%
Barium Sulfate	7727-43-7	10%
Titanium Dioxide	13463-67-7	10%
m-Tolyl Diethanolamine	91-99-6	1%
Methyl Alcohol	67-56-1	1%

4. First Aid

4.1 Description of necessary first-aid measures:

Eye:	Immediately flush eyes with large quantities of clean water for at least 15 minutes. Get immediate medical attention.
Skin:	Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse.
Ingestion:	DO NOT INDUCE VOMITING. ASPIRATION HAZARD: this material may enter the lungs during vomiting. Immediately give the victim one or two glasses of water or milk to drink. Never give anything by mouth to an unconscious person. GET IMMEDIATE MEDICAL ATTENTION.
Inhalation:	Remove victim to fresh air. Keep warm and quiet. If not breathing, give artificial respiration. If breathing is difficult, give oxygen by trained personnel. GET IMMEDIATE MEDICAL ATTENTION

4.2 Acute Exposure:

Skin:	Harmful if absorbed through skin. Contact causes skin irritation. Prolonged or repeated skin contact can result in defatting and drying of the skin.
Eye:	Harmful to eyes. Direct contact with this material causes eye irritation. Symptoms may include stinging, tearing, redness and swelling.
Ingestion:	Harmful if swallowed. Single dose oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful. Effects from exposure through ingestion may include gastrointestinal disturbances, pain and discomfort. Effects of exposure by ingestion may also include those indicated by the inhalation route. Material is harmful or fatal if liquid is aspirated into the lungs.
Inhalation:	Harmful if inhaled. Effects from exposure may include headaches, fatigue, nausea, sensation of drunkenness, central nervous system depression and pulmonary edema.
Chronic Exposure:	Prolonged or repeated exposure may cause damage to the central nervous system and may result in permanent brain damage. Symptoms include: loss of memory, loss of judgment, loss of coordination, effects on hearing and respiratory tract damage. Prolonged or repeated exposure may cause liver and kidney damage.
Carcinogenicity:	This material contains Styrene (9% by mass) which is listed by the International Agency for Research (IARC) on Cancer as a group 2B cancer causing agent (possibly carcinogenic to humans).

4.3 Indication of immediate medical attention and special treatment needed, if necessary: N/A

5. Firefighting

5.1 Extinguishing media:	Use carbon dioxide, foam, dry chemical or water fog to extinguish fire.
5.2 Specific hazards arising from the chemical:	FLAMMABLE LIQUID. Vapors can form an explosive mixture with air. Vapor can travel to a source of ignition (spark or flame) and flash back. This material may polymerize (react) when its container is exposed to heat (as during a fire). This polymerization increases pressure inside a closed container and may result in the

violent rupture of the container. Combustion may produce carbon monoxide, carbon dioxide and irritating or toxic vapors and gases.
89° F (32 ° C).

5.3 Flash Point:

5.4 Special protective actions for fire-fighters:

Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Thoroughly decontaminate all protective equipment after use. Evacuate all persons from the fire area to an explosion-protected location. Move non-burning material, as feasible, to a safe location as soon as possible. Fire fighters should be protected from potential explosion hazard while extinguishing the blaze. Containers of this material may build up pressure if exposed to heat (fire). Use water spray to cool fire-exposed containers. DO NOT extinguish a fire resulting from a large flow of this flammable liquid until the flow of liquid is effectively shut off. This precaution will help prevent the accumulation of an explosive vapor-air mixture after the initial fire is extinguished. Use water spray to disperse vapors if a spill or leak has not ignited. See Section 13 for disposal considerations.

6. Accidental Release

6.1 Personal precautions, protective equipment and emergency procedures:

Remove all sources of ignition (flares, flames including pilot lights, electrical sparks). NO SMOKING. Persons not wearing protective equipment (see Section 8) should be excluded from the area of the spill until clean-up has been completed.

6.2 Methods and materials for containment and clean up:

For Small Spills:

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Use non-sparking (non-metallic) tools to clean up spill.

For Large Spills (drums or larger):

Stop spill at source. Prevent spilled material from contaminating soil or entering drains, sewers, streams or other bodies of water. Prevent spilled material from spreading. Immediately notify authorities of any reportable spill as may be required pursuant to regulations. See Section 15 for applicable CERCLA reportable quantities. Scrape or pump spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other waste materials to waste containers for disposal.

7. Handling & Storage

7.1 Precautions for safe handling:

Avoid inhalation and contact with eyes, skin, and clothing. Wash hands thoroughly after handling and before eating or drinking. Remove and wash contaminated clothing before reuse. Use with adequate ventilation. Ground and bond containers when transferring the material to prevent static electricity sparks which could ignite the vapor. Use spark-proof tools and explosion-proof equipment. Consult your supplier of promoters and catalysts for additional instructions on proper mixing and usage. Empty containers may retain product residue (liquid and/or vapor). Do not pressurize, cut, weld, braze, solder, drill, grind, or expose these containers to heat, flame, sparks, static electricity, or other sources of ignition as the container may explode and may cause injury or death. Empty drums should be completely drained and properly bunged. Empty drums should be promptly returned to a drum reconditioner or properly disposed.

7.2 Conditions for safe storage, including any incompatibilities:

Keep away from ignition sources: flames, pilot lights, electrical sparks, and sparking tools. NO SMOKING. Do not store in direct sunlight. Store separate from oxidizing materials, peroxides, and metal salts. Keep container closed when not in use. To ensure maximum stability and maintain optimum resin properties, resins should be stored in closed containers at temperatures below 75°F (25°C). Copper or copper containing alloys should be avoided as containers.

8. Exposure Controls & Personal Protection

8.1 Control parameters

Component	CAS No.	EINECS	Percent	Exposure Limits	Source
Styrene	100-42-5	202-851-5	10% - 12%	100 ppm PEL 20ppm TWA 40 ppm STEL	OSHA ACGIH ACGIH

8.2 Appropriate engineering controls: Local ventilation may be required during certain operations to maintain concentrations below recommended exposure limits. Use explosion-proof ventilation equipment.

8.3 Individual protection measures, such as personal protective equipment:

Eye Protection: Wear 1) safety glasses with side shields and a faceshield or 2) goggles and a faceshield. Facilities storing or utilizing this material should be equipped with an eyewash station and safety shower.

Skin Protection: Wear chemical resistant gloves such as polyvinyl alcohol or Viton®. If splashing is likely, wear impervious clothing and boots to prevent repeated or prolonged skin contact. Consult your supplier of personal protective equipment for additional instructions on proper usage. The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all requisite workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), as well as the instructions/specifications provided by the glove supplier.

Respiratory Protection: A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if 1) there is any potential for an uncontrolled release, 2) exposure levels are not known, or 3) during other circumstances where air purifying respirators may not provide adequate protection.

9. Physical & Chemical Properties

9.1 Appearance (physical state, color, etc.):	Thixotropic Paste, White and Grey
9.2 Odor:	Pungent Odor
9.3 Odor threshold:	N/A
9.4 pH:	Not Determined
9.5 Melting point/freezing point:	Not Determined
9.6 Initial boiling point and boiling range:	Not Determined
9.7 Flash Point:	89° F (32 ° C)
9.8 Evaporation rate:	N/A
9.9 Flammability (solid, gas):	N/A
9.10 Upper/lower flammability or explosive limits:	LFL-1.1 % in air Styrene; UFL-7.0 % in air Styrene
9.11 Vapor pressure:	6.12 (mm Hg) Styrene
9.12 Vapor density:	N/A
9.13 Relative density (Specific gravity):	1.53-1.56
9.14 Solubility(ies):	Components are Not Readily Soluble in Water
9.15 Partition coefficient; n-octanol/water:	N/A

9.16 Auto-ignition temperature:	914° F (490° C)
9.17 Decomposition temperature:	N/A
9.18 Viscosity:	N/A
9.19 Volatile Organic Compounds:	12% by mass (186 g/liter)

10. Stability & Reactivity

10.1 Reactivity:	N/A
10.2 Chemical stability:	Stable at normal temperatures and storage conditions.
10.3 Possibility of hazardous reactions:	Product will undergo hazardous polymerization at temperatures above 150 F (65 C). Hazardous polymerization will occur if contaminated with peroxides, metal salts and polymerization catalysts.
10.4 Conditions to avoid:	N/A
10.5 Incompatible materials:	Avoid contact with strong acids, oxidizing agents (peroxides), metal salts and polymerization catalysts.
10.6 Hazardous decomposition products:	Thermal decomposition may produce various hydrocarbons and irritating, acrid vapors.

11. Toxicological Information

11.1 Likely routes of exposure:	Inhalation, skin and eye contact.
11.2 Symptoms related to the physical, chemical and toxicological characteristics:	
Acute Eye Toxicity:	Studies indicate that exposures to concentrations of styrene above 200 ppm cause irritation of the eyes. Styrene causes transient moderate eye irritation without corneal involvement.
Acute Inhalation Toxicity:	Studies indicate that exposures to concentrations of styrene above 200 ppm cause irritation of the upper respiratory tract.
11.3 Delayed and immediate effects and also chronic effects from short and long term exposure:	
Subchronic:	Overexposure to styrene has been suggested as a cause of the following effects in laboratory animals and may aggravate preexisting disorders of the following organs in humans; mild, reversible kidney effects, effects on hearing, respiratory tract damage, testis damage and liver damage.
Chronic/Carcinogenicity:	The International Agency for Research on Cancer (IARC) has classified styrene in Group 2B, possibly carcinogenic to humans. IARC concluded that evidence of carcinogenicity from human health studies, was inadequate and based the classification on animal and other relevant data. IARC considered the combined results of these cancer studies to provide "limited evidence" of carcinogenicity. The relevance of these findings is uncertain since data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.
Teratology:	Styrene did not cause birth defects in orally-dosed rats, mice, rabbits and hamsters exposed by inhalation. Styrene given by inhalation for six hours a day during organ development has been shown to be toxic to fetal mice at 250 ppm and to fetal hamsters at 1000 ppm. Information from human experience and the results of animal studies suggest no significant risk of birth defects or reproductive toxicity of styrene to humans.
Mutagenicity:	Styrene has given mixed positive and negative results in a number of mutagenicity tests. It was not mutagenic in the Ames test without metabolic activation but gave negative and positive mutagenic results with metabolic activation. It has also given negative mutagenic results in the Chinese Hamster Ovary Test, and the Forward Gene Mutation Test and positive results in the Sister Chromatid Exchange and the Chromosomal Aberration

assay.

11.4 Numerical measures of toxicity:

Ingredient Name	CAS No.	%	Test	Result	Route	Species
m-Tolyldiethanolamine	91-99-6	0.5% - 1%	LD50	0.8 – 3.1 g/kg	Oral	Rat
Styrene	100-42-5	10% - 12%	LD50	24 g/m3, 4 hrs.	Inhalation	Rat
			LD50	5g/kg	Oral Dermal	Rat
			LD50	5g/kg		Rabbit

12. Ecological Information

12.1 Ecotoxicity:

Chemical Name	CAS No.	%	Test	Concentration	Result	Species
Styrene	100-42-5	10% - 12%	LC50	23 mg/L	48 hrs.	Daphnia magna

Individual components of this mixture have been independently tested by the raw material suppliers and any known results have been presented above. The results for the individual components may not be representative of the ecological toxicity of this finished product. This finished product has not been tested to determine individual toxicological/ecological limits. Great Caution should be taken to prevent release to the environment. See Section 13 for further information.

12.2 Persistence and degradability: This material contains components that show little or no evidence of biodegradability. Great Caution should be taken to prevent release to the environment. See Section 13 for further information.

12.3 Bioaccumulative potential: N/A

12.4 Mobility in soil: N/A

12.5 Other adverse effects: N/A

13. Disposal Information

13.1 Disposal methods:

Preferred method of disposal includes incineration under controlled conditions in accordance with all local and national laws and regulations. The generation of waste should be avoided or minimized wherever possible. Untreated material is not suitable for disposal. Waste, even small quantities, should never be poured down drains, sewers or water courses. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Contaminated packaging Empty containers can only be disposed of when the remaining product adhering to the container walls has been removed. Hazard warning labels should be removed from the container walls.

14. Transportation Information

14.1 Proper Shipping Name	UN-1866
14.2 UN Number	Resin Solution
14.3 Hazard Class	3
14.4 Packaging Group	III
14.5 Bulk Shipping	N/A
14.6 Environmental hazards:	N/A
14.7 Special precautions for user:	N/A

15. Regulatory Information

15.1 US Safety, health and environmental regulations:

Occupational Safety and Health Act (OSHA): This material is classified as a hazardous chemical under the criteria of the US Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR 1910.1200.

SARA Title III: Section 304 - Styrene (CAS# 100-42-5): Reportable Quantity = 1,000 lb.

CERCLA:

SARA Title III: Section 311/312
- Hazard Communication
Standard (HCS):

This material is classified as an IMMEDIATE HEALTH HAZARD, DELAYED HEALTH HAZARD, FLAMMABILITY HAZARD, and REACTIVITY HAZARD under the US Superfund Amendment and Reauthorization Act (Section 311/312).

SARA Title III: Section 313
Toxic Chemical List (TCL):
TSCA Section 8(b) - Inventory
Status:
TSCA Section 12(b) - Export
Notification:

Styrene (100-42-5)

All components of this material are listed on the US Toxic Substances Control Act (TSCA) inventory.

This material does not contain any components that are subject to the US Toxic Substances Control Act (TSCA) Section 12(b) Export Notification requirements.

California Proposition 65:
WARNING:

This product does contain chemicals known to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the ("Safe Drinking Water and Toxic Enforcement Act of 1986").
Styrene Oxide

15.2 Canadian Safety, health and environmental regulations:

Canadian Inventory Status:

All components of this material are listed on the Canadian Domestic Substances List (DSL).

Canadian WHMIS:

This material is classified by the Canadian Workplace Hazardous Material Information System as: B2 (flammable liquid) D2A (materials causing other toxic effects, very toxic material) D2B (materials causing other toxic effects, toxic material) F (dangerously reactive material)

Additional Canadian Regulatory
Information:

The following chemicals are listed on the WHMIS Ingredient Disclosure List: Styrene Monomer (CAS# 100-42-5)



16. Other Information

SDS Revision Date:

8/5/2011

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