

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

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| 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 BUTYL ACETATE
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.