7 THERITER'A TRANTE THE MOVEL	
1. IDENTIFICATION OF THE MIXTU Product Identifier	
Product	HM 4:1 Hardener [21-85]
Recommended use of chemical	Use as hardener for polyuretane paint
Restriction on use	No open flames, No spraks, and No smoking
Supplier's details	
Company	Big-Ben (Paints) Company Limited
Address	38 Mu 7 Suanluangruamjai Road Suanluang Krathumban Samutsakorn 74110 Thailand
Telephone number	+66 2 811 1442 or +66 2 811 1443
Fax number	+66 2 811 0632
E-mail	bbp@bbp.co.th
Emergency phone number	+66 2 811 1442 or + 66 2 811 1443
2. HAZARD IDENTIFICATION	
Classification of the substance or mix This product has been classified in a the information as required by the sta	ccordance with the hazard communication standard 29 CSR 1910.1200; the SDS and labels contain a
Flammable liquids	Category 1
Acute toxicity - dermal	Category 1
Skin corrosion/irritation	Category 3
Specific target organ toxicity (single exposure)	Category 3
Hazardous to the aquatic environment - acute hazard	Category 3
Percentage of mixture consisting of Percentage of mixture consisting of Percentage of mixture consisting of GHS label elements	of ingredient(s) of unknown oral toxicity: 58.20% of ingredient(s) of unknown dermal toxicity: 58.20% of ingredient(s) of unknown inhalation toxicity: 10.20%
Percentage of mixture consisting of Percentage of mixture consisting of Percentage of mixture consisting of GHS label elements	of ingredient(s) of unknown dermal toxicity: 58.20%
Percentage of mixture consisting of Percentage of mixture consisting of Percentage of mixture consisting of <b>GHS label elements</b> Pictogram or symbol	of ingredient(s) of unknown dermal toxicity: 58.20% of ingredient(s) of unknown inhalation toxicity: 10.20%
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**Big-Ben Paints** 

[RESPONSE]

P302+P350 IF ON SKIN Gently wash with plenty of soap and water.

P303+P361+P353 IF ON SKIN (or hair) Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+P340 IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor / physician.

P312 Call a POISON CENTER or doctor / physician if you feel unwell.

P322 Specific measures (see on this label).

P332+P313 IF skin irritation occursGet medical advice / attention.

P361 Remove / Take off immediately all contaminated clothing.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire Use dry sand, dry chemical or alcohol-resistant foam for extinction.

## [STORAGE]

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

[DISPOSAL]

P501 Dispose of contents / container in accordance with local / regional / national / international regulations.

3. COMPOSITION AND INFORMATION ON INGREDIENTS			
Chemical name	CAS No.	Content % (w/w)	
1-METHOXY-2-PROPANOL	108-65-6	1.16 - 2.08	
ACETATE			
Butyl Acetate	123-86-4	35.02 - 52.43	
Homopolymer	28182-81-2	39.14 - 61.16	
Homopolymer	53880-05-0	4.71 - 12.09	
Xylene	1330-20-7	1.09 - 2.68	
4. FIRST AND MEASURES			
Inhalation	Remove to fresh air. If unconscious, place in rec	covery position and seek medical attention	
	immediately.	immediately.	
Skin contact	Immediately flush with water for at least 15 minu	utes. Remove contaiminated clothing. Seek medical	
	attention immediately. Wash thoroughly after ha	ndling.	
Eye contact	Hold eyelids apart and immediately flush with plenty of water for 15 minutes. Seek medical advice.		
	Remove contact lenses.		
Ingestion	Rinse mouth with water. Never give anything by	mouth to an unconscious person. Obtain medical	
	attention. If swallowed, DO NOT induce vomitting unless directed to do so by medical personnel.		
Most important symptoms/effects,	Dizziness. Drowsiness. Headache. Nausea. Vomitting. Weakness. Unconsciousness. Skin and eye		
acute and delayed	redness. Pain. Nausea. Vomitting.		
5. FIRE FIGHTING MEASURES			
Suitable extinguishing media	Dry chemical. Carbon Dioxide (CO <sub>2</sub> ). Alcohol-resistant foam. Water spray.		
Unsuitable extinguishing media	High volume water jet.		
Specific hazards arising from the	Flammable liquid. Vapors can form an ignitable misture with air. Vapors can flow along surfaces to a		
chemical	distant ignition source and flash back. Container may rupture on heating.		
Specific protective equipment and	Wear self-contained breathing apparatus and fu	Il protective clothing for firefighting.	
precautions for firefighters			
6. ACCIDENTAL RELEASE MEAS	URES		
Personal precautions, protective	Keep unnecessary personnel away. Prevent fur	ther leakage or spillage if safe to do so. Use personal	
equipment, and emergency	protective equipment. Use only non-sparkling to	ols.	
procedures			
Environmental precautions	Prevent the material from entering drains or wat	er courses.	
Methods and materials for	Contain spillage, and then collect with non-com	bustible absorbent material, (e.g. sand, earth,	
containment and cleaning up	diatomaceous earth, vermiculite) and place in co	ontainer for disposal according to local/national	
	regulations.		

Precautions for safe handling	Avoid breathing vapor and contact with eyes, skin, and clothing. Do no leave containers open. Avoid
	repeated or prolonged contact with skin.
Conditions for safe storage,	Keep away from heat or flames. Keep in cool, dry, ventilated storage and in closed
ncluding any incompatibilites	containers. Store away from oxidizing agent.
B. EXPOSURE CONTROLS/PER	· · · · · · · · · · · · · · · · · · ·
Control parameters	1-METHOXY-2-PROPANOL ACETATE OSHA
	PEL-TWA 50 <sup>12</sup>
	Skin notification Y <sup>15</sup> NIOSH
	REL-TWA 5 <sup>12</sup>
	Skin notification Y <sup>12</sup> ACGIH
	TLV-TWA 20 <sup>12</sup>
	Skin notification N <sup>12</sup> CAL/OSHA
	PEL-TWA 20 <sup>12</sup>
	Butyl Acetate OSHA
	PEL-TWA 150 <sup>13</sup>
	Skin notification N <sup>16</sup> NIOSH
	REL-TWA 150 <sup>16</sup>
	REL-STEL 200 <sup>16</sup>
	Skin notification N <sup>16</sup> ACGIH
	TLV-TWA 50 <sup>16</sup> TLV-STEL 150 <sup>16</sup>
	Skin notification N CAL/OSHA
	PEL-TWA 150 <sup>16</sup>
	PEL-STEL 200 <sup>16</sup>
	Skin notification N <sup>16</sup> <u>Homopolymer</u> OSHA
	Sin notification NA <sup>17</sup> NIOSH
	Skin notification NA <sup>17</sup> ACGIH
	Skin notification NA <sup>17</sup> CAL/OSHA
	Skin notification NA <sup>17</sup> Homopolymer Xylene OSHA
	OSHA PEL-TWA 100 <sup>14</sup>
	Skin notification N <sup>14</sup>
	NIOSH REL-TWA 100 <sup>14</sup>
	Skin notification N <sup>14</sup>
	ACGIH TLV-TWA 100 <sup>14</sup>
	TLV-STEL 150 <sup>14</sup> Skin notification N <sup>14</sup>
	CAL/OSHA
	PEL-TWA 100 <sup>14</sup> PEL-STEL 150 <sup>14</sup>
	PEL-C 300 <sup>14</sup> Skin notification N <sup>14</sup>

Appropriate engineering controls	Provide adequate ventilation. Install local exhaust.	
Personal protective equipment		
Respiratory protection	Organic vapor respirator	
Hand protection	Rubber gloves. Neoprene.	
Eye protection	Safety goggle.	
Skin and body protection	Wear suitable clothing	
9. PHYSICAL AND CHEMICAL PROPERTIES		
Appearance	Colourless Liquid	
Odor	organic solvent	
Odor threshold	Not available	
рН	Not available	
Melting point/freezing point	Not available	
Initial boiling point and boiling range	Not available	
Flash point	< 23	
Evaporation rate	Not available	
Flammability (solid, gas)	Not available	
Upper/lower flammability or	Not available	
explosive limits	Not available	
Vapor pressure	Not available	
Vapor density	Not available	
Relative density	0.95 - 1.05	
Solubility(ies)	Soluble in Organic solvent	
Partition coefficient n-Octanol-water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not Available	
Viscosity	11-13 sec/F4 @30c	
10. STABILITY AND REACTIVITY		
Reactivity	Reacts violently with strong acids and strong oxidants	
Chemical stability	Stable under normal storage and handling conditions	
Possibility of hazardous reaction	Will not occur	
Condition to avoid	High temperatures, sparks, open flame, and all other sources of ignition	
Incompatible materials	Strong oxidizing agents, strong acids	
Hazardous decomposition products	Not available	

Acute toxicity (oral)	ATEmix = 10257.77 mg/kg (Not classified)	
	1-METHOXY-2-PROPANOL ACETATE LD50 (rat) oral = 5155.00 mg/kg <sup>1</sup>	
	Butyl Acetate LD50 (rat) oral = $10736.00 \text{ mg/kg}^2$	
Acute toxicity (dermal)	ATEmix = 16.71 mg/kg (Classify 1)	
(uunin)	1-METHOXY-2-PROPANOL ACETATE LD50 (rabbit) dermal = 2000.00 mg/kg <sup>1</sup>	
	Butyl Acetate LD50 (rabbit) dermal = $16.00 \text{ mg/kg}^2$	
Acute toxicity (dermal)	ATEmix = 1508.58 mg/kg (Not classified)	
	Butyl Acetate LC50 (rat) inhalation = 740.00 mg/kg <sup>2</sup>	
	Homopolymer LC50 (rat) inhalation = $9250.00 \text{ mg/kg}^3$	
	Xylene LC50 (rat) inhalation = $6360.00 \text{ mg/kg}^4$	
Skin corrosion and skin irritation	Causes mild skin irritation (Xylene)	
Serious eye damage or eye	Not classified	
irritation		
Respirator and skin sensitzation	Not classified	
Skin sentization	Not classified	
Germ cell mutagenicity	Not classified	
Carcinogenicity	Not classified	
Reproductive toxicity	Not classified	
Specific target organ toxicity	May cause respiratory irritation (Butyl Acetate)	
following single exposure		
Specific target organ toxicity following repeated exposure	Not classified	
Aspiration hazard	Not classified	
12. ECOLOGICAL INFORMATIO		
Acute aquatic hazard	Harmful to aquatic life	
· · · · · · · · · · · · · · · · · · ·	1-METHOXY-2-PROPANOL ACETATE	
	LC50 (fish) 96 hr = 100 mg/L <sup>1</sup>	
	EC48 (shrimp) 48 hr = 50 mg/L <sup>1</sup>	
	Butyl Acetate LC50 (fish) 96 hr = 18 mg/L <sup>2</sup>	
	EC48 (shrimp) 48 hr = $32 \text{ mg/L}^2$	
	Homopolymer ErC-EC72 (Fungi) 96 hr = 1000 mg/L <sup>undefined</sup>	
	Xylene	
	LC50 (fish) 96 hr = 3.30 mg/L <sup>7</sup>	
Long term aquatic hazard	No information	
Persistance and degradability	Rapidly degradable (1-METHOXY-2-PROPANOL ACETATE, Butyl Acetate, Xylene)	
Bioaccumulative potential	Bioaccumulative potential	
	<u>1-METHOXY-2-PROPANOL ACETATE</u> log KOW = 0.56 <sup>18</sup>	
	$BCF = 3^{18}$	
	BUT - 5 Butyl Acetate	
	$\log KOW = 1.78^{19}$	
	BCF = 7.00 <sup>19</sup>	
	$\frac{Xylene}{Xylene}$	
	$\log KOW = 3.20^{20}$	
	BCF = 14.80 <sup>20</sup>	
Mobility in soil	The product is insoluable in water. If released to water, some of the components will have tendency to avance the while other components are expected to be highly makile in acil and have the petertial to	
Other adverse effects	evaporate while other components are expected to be highly mobile in soil and have the potential to reach underground water supplies.	

13. DISPOSAL CONSIDERATIONS		
Disposal methods	Disposing of this material/container should be done under all the regulations or handled by authorized	
	waste collector in your country	
Container disposal	Do not re-use empty containers	
14. TRANSPORT INFORMATION		
Labels required	3	
UN number	1263	
UN proper shipping name	Paint	
Transport hazard class(es)	3	
Packing group	III	
Environmental hazards	Not applicable	
Special precautions	Not applicable	
Transport in bulk	Not applicable	
15. REGULATORY INFORMATION		
Inventory of existing chemical substance produced or imported in USA (TSCA)	All component in this product are listed	
Toxic substance control act (TSCA)	All component in this product are listed	
16. OTHER INFORMATION	·	
Issue date: 06 April 2022		
References		
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2. https://echa.europa.eu/brief-profile/-/briefprofile/100.004.236#ScientificProperties (17-12-19)		
3. https://www.epa.govt.nz/database-search/chemical-classification-and-information-database-ccid/view/6025 (9-5-19)		
4. https://www.epa.govt.nz/database-search/chemical-classification-and-information-database-ccid/view/682 (04-05-19)		
5. https://echa.europa.eu/brief-profile/-/briefprofile/100.014.124 (24-12-19)		
6. https://echa.europa.eu/brief-profile/-/briefprofile/100.004.236 (04-05-19)		
7. https://www.epa.govt.nz/database-search/chemical-classification-and-information-database-ccid/view/682 (04-05-19		
8. https://echa.europa.eu/brief-profile/-/briefprofile/100.155.514 (9-5-19)		
9. https://echa.europa.eu/brief-profile/-/briefprofile/100.003.277 (14/8/19)		
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15. https://www.oshahttps://www.osh recNo=820 (03-05-19)	na.gov/chemicaldata/chemResult.html?recNo=130 (17-12-19).gov/chemicaldata/chemResult.html?	
16. https://www.osha.gov/chemicaldata/chemResult.html?recNo=178 (17-12-19)		
17. https://www.osha.gov/chemicaldata/chemResult.html?recNo=808 (9-5-19)		
18. https://pubchem.ncbi.nlm.nih.gov/compound/7946#section=Environmental-Fate (03-05-19)		
19. https://pubchem.ncbi.nlm.nih.gov/compound/31272#section=Environmental-Abiotic-Degradation (04-05-19)		
20. https://pubchem.ncbi.nlm.nih.gov	//compound/7929#section=Environmental-Fate (04-05-19)	