

# Hardener (for Factory Packs) Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 02/15/2019 Revision date: 02/17/2019 Supersedes: 02/15/2019 Version: 1.0

SECTION 1. Identification	
SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Hardener (for Factory Packs)
Product code	: MMH-97
1.2. Recommended use and restriction	ons on use
No additional information available	
1.3. Supplier	
Color By Design, Inc. 407 W. Main Haven, KS 67543	
T 620-465-2600 info@colorbydesigninc.com	
1.4. Emergency telephone number	
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Emergency number	: 620-728-4044
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance o	
GHS US classification	
Flammable liquids Category 3	Elammable liquid and vanour
Flammable liquids Category 3 Skin corrosion/irritation Category 2	Flammable liquid and vapour Causes skin irritation
Serious eye damage/eye irritation Category 2	
Germ cell mutagenicity Category 1B	May cause genetic defects
Carcinogenicity Category 1B	May cause cancer
Specific target organ toxicity (single exposure	e) Category 3 May cause respiratory irritation
2.2 GHS Label elements including n	recautionary statements
	recautionary statements
GHS US labeling	
GHS US labeling Hazard pictograms (GHS US)	CHS02 CHS07 CHS08
GHS US labeling Hazard pictograms (GHS US) Signal word (GHS US)	
GHS US labeling Hazard pictograms (GHS US) Signal word (GHS US)	: GHS02 GHS07 GHS08 : Danger : Flammable liquid and vapour Causes skin irritation
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GHS US labeling Hazard pictograms (GHS US) Signal word (GHS US) Hazard statements (GHS US)	<ul> <li>You way 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. Avoid breathing dust/fume/gas/mist/vapors/spray.</li> </ul>
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<ul> <li>2.2. GHS Label elements, including p GHS US labeling</li> <li>Hazard pictograms (GHS US)</li> <li>Signal word (GHS US)</li> <li>Hazard statements (GHS US)</li> <li>Precautionary statements (GHS US)</li> </ul>	<ul> <li>For the precedure of the performance of th</li></ul>
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and easy to do. Continue rinsing
If exposed or concerned: Get medical advice/attention.
Call a poison center or doctor if you feel unwell
Specific treatment (see supplemental first aid instruction on this label)
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
In case of fire: Use media other than water to extinguish.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point, in accordance
with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classific	ation
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#### No additional information available

2.4. Unknown acute toxicity (GHS US)

#### Not applicable

#### **SECTION 3: Composition/Information on ingredients**

Substances 3.1.

Name : Hardener (for Factory Packs)				
Name	Proc	duct identifier	%	GHS US classification
solvent naphtha (petroleum), light aromatic	(CAS-	No.) 64742-95-6	~ 61.1	Flam. Liq. 2, H225 Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304
1,2,4-Trimethylbenzene	(CAS-	No.) 95-63-6	1.02 - 22.51	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
cumene	(CAS-	No.) 98-82-8	0.085 - 0.905	Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures				
Not applicable				
SECTION 4: First-aid measures				
4.1. Description of first aid measures				
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.			
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.			
First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.				
First-aid measures after eye contact	: Rinse eyes with water as a precaution.			
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.			
4.2. Most important symptoms and effects	s (acute and delayed)			
Symptoms/effects after inhalation	: May cause respiratory irritation.			
Symptoms/effects after skin contact	: Irritation.			
4.3. Immediate medical attention and special treatment, if necessary				
Treat symptomatically.				
SECTION 5: Fire-fighting measures				

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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5.2. Specific hazards arising from the chemical			
Fire hazard	Flammable liquid and vapour.		
Reactivity	: Flammable liquid and vapour.		
5.3. Special protective equipment and p	precautions for fire-fighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		
<b>SECTION 6: Accidental release mea</b>	sures		
6.1. Personal precautions, protective ed	quipment and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	: No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Avoid breathing dust/fume/gas/mist/vapors/spray.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Avoid release to the environment. Notify authori	ities if product enters sewers or public waters.		
6.3. Methods and material for containm	ent and cleaning up		
Methods for cleaning up	<ul> <li>Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.</li> </ul>		
Other information	: Dispose of materials or solid residues at an authorized site.		
6.4. Reference to other sections			
For further information refer to section 13.			
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.		
Hygiene measures	: Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2. Conditions for safe storage, includ	ing any incompatibilities		
Technical measures	: Ground/bond container and receiving equipment.		
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.		

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

solvent naphtha (petroleum), light aromatic (64742-95-6)				
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>		
ACGIH	ACGIH TWA (ppm)	200 ppm		
OSHA	OSHA PEL (TWA) (ppm)	200		
OSHA	OSHA PEL (STEL) (ppm)	500		
1,2,4-Trimethylbenzene (95-63-6)				
		25 ppm (Trimethyl benzene (mixed isomers); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)		

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cumene (98-82-8)				
ACGIH	ACGIH TWA (ppm)	50 ppm (Cumene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)		
ACGIH	Remark (ACGIH)	Lung cancer; liver and lung dam; A2 (Suspected Human Carcinogen: Human data are accepted as adequate in quality but are conflicting or insufficient to classify the agent as a confirmed human carcinogen; OR, the agent is carcinogenic in experimental animals at dose(s), by route(s) of exposure, at site(s), of histologic type(s), or by mechanism(s) considered relevant to worker exposure. The A2 is used primarily when there is limited evidence or carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals with relevance to humans)		
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	245 mg/m <sup>3</sup>		
OSHA	OSHA PEL (TWA) (ppm)	50 ppm		

#### 8.2. Appropriate engineering controls

: Ensure good ventilation of the work station.

Appropriate engineering controls Environmental exposure controls

: Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### **Respiratory protection:**

Wear respiratory protection.

SECTION 9: Physical and chemical properties				
9.1. Information on basic physical and	9.1. Information on basic physical and chemical properties			
Physical state	: Liquid			
Color	: Colorless			
Odor	<ul> <li>There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.</li> <li>Mixture contains one or more component(s) which have the following odour(s): Aromatic odour No data available on odour Irritating/pungent odour</li> </ul>			
Odor threshold	: No data available			
рН	: No data available			
Melting point	: Not applicable			
Freezing point	: No data available			
Boiling point	: 281 - 287 °F			
Flash point	: 80 °F TCC			
Relative evaporation rate (butyl acetate=1)	: 1.9			
Flammability (solid, gas)	: Not applicable.			
Vapor pressure	: 22 mm Hg @20 C			
Relative vapor density at 20 °C	: No data available			
Relative density	: 0.98 - 1.1			
Solubility	: Insoluble in water.			
Log Pow	: No data available			
Auto-ignition temperature	: No data available			

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Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

#### 9.2. Other information

No additional information available

No additional information available				
SECT	SECTION 10: Stability and reactivity			
10.1.	Reactivity			
Flamma	Flammable liquid and vapour.			
10.2.	Chemical stability			
Stable ι	Stable under normal conditions.			
10.3.	Possibility of hazardous reactions			
No dan	No dangerous reactions known under normal conditions of use.			
10.4.	Conditions to avoid			
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.				
10.5.	Incompatible materials			
No additional information available				
10.6.	Hazardous decomposition products			
Under r	Under normal conditions of storage and use, hazardous decomposition products should not be produced.			

#### **SECTION 11: Toxicological information**

11.1. Information on toxicological effects

Acute toxicity

: Not classified

solvent naphtha (petroleum), light aromatic (6	4742-95-6)	
LD50 oral rat	3492 mg/kg	
LD50 dermal rabbit	> 3160 mg/kg	
LC50 inhalation rat (ppm)	> 6193 ppm/4h	
ATE US (oral)	3492.000 mg/kg body weight	
1,2,4-Trimethylbenzene (95-63-6)		
LD50 oral rat	> 5000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature; 6000 mg/kg bodyweight; Rat; Experimental value)	
LD50 dermal rat	> 3440 mg/kg (Rat; Read-across; OECD 402: Acute Dermal Toxicity)	
LC50 inhalation rat (mg/l)	18 mg/l/4h (Rat)	
ATE US (gases)	4500.000 ppmV/4h	
ATE US (vapors)	18.000 mg/l/4h	
ATE US (dust, mist)	1.500 mg/l/4h	
cumene (98-82-8)		
LD50 oral rat	> 2000 mg/kg (Rat; Other; Literature study; 4000 mg/kg bodyweight; Rat; Other; Inconclusive, insufficient data)	
LD50 dermal rabbit	10578 mg/kg (Rabbit; Literature study; Other)	
LC50 inhalation rat (mg/l)	40 mg/l/4h (Rat; Literature study)	
LC50 inhalation rat (ppm)	8000 ppm/4h (Rat; Literature study)	
ATE US (dermal)	10578.000 mg/kg body weight	
ATE US (gases)	8000.000 ppmV/4h	
ATE US (vapors)	40.000 mg/l/4h	
ATE US (dust, mist)	40.000 mg/l/4h	
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/irritation	Causes serious eye irritation.	
Respiratory or skin sensitization	Not classified	
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Germ cell mutagenicity	: May cause genetic defects.
Carcinogenicity	: May cause cancer.
cumene (98-82-8)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicity Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: May cause respiratory irritation.

solvent naphtha (petroleum), light aromatic (64742-95-6)	
Target organ(s)	liver kidneys central nervous system
cumene (98-82-8)	
Target organ(s)	liver kidneys central nervous system
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation Symptoms/effects after skin contact	: May cause respiratory irritation. : Irritation.

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SECTION 12:	<b>Ecological information</b>

12.1.	Toxicity	
Ecology	- general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

1,2,4-Trimethylbenzene (95-63-6)	
LC50 fish 1	7.72 mg/l (LC50; 96 h; Pimephales promelas; Flow-through system; Fresh water)
EC50 Daphnia 1	3.6 mg/l (LC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 2	2.356 mg/l (EC50; ECOSAR; 96 h; Algae; Fresh water)
cumene (98-82-8)	
EC50 Daphnia 1	2.14 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)

#### 12.2. Persistence and degradability

1,2,4-Trimethylbenzene (95-63-6)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil. Low potential for mobility in soil. Photodegradation in the air.
Chemical oxygen demand (COD)	0.44 g O <sub>2</sub> /g substance
cumene (98-82-8)	
Persistence and degradability	Inherently biodegradable. Not readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	1.28 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.42 g O <sub>2</sub> /g substance
ThOD	3.2 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.4

12.3. Bioaccumulative potential

solvent naphtha (petroleum), light aromatic (64742-95-6)	
Log Pow	2.1 - 6
1,2,4-Trimethylbenzene (95-63-6)	
BCF fish 1	31 - 275 (BCF; Other; 8 weeks; Cyprinus carpio)
Log Pow	3.63 - 4.09 (Experimental value)

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1,2,4-Trimethylbenzene (95-63-6)	
Bioaccumulative potential	Potential for bioaccumulation ( $4 \ge Log$ Kow $\le 5$ ).
cumene (98-82-8)	
BCF fish 1	35.5 (BCF)
BCF other aquatic organisms 1	94.69 (BCF; BCFBAF v3.00)
Log Pow	3.66 (Experimental value; 3.55; Experimental value; OECD 107: Partition Coefficient (n- octanol/water): Shake Flask Method; 23 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

#### 12.4. Mobility in soil

1,2,4-Trimethylbenzene (95-63-6)		
Surface tension	0.029 N/m	
Log Koc	log Koc,3.04; Calculated value	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.	
cumene (98-82-8)		
Log Koc	Koc,884; Calculated value; log Koc; 2.946; Calculated value	
12.5. Other adverse effects		

Effect on the global warming	: No known effects from this product.
GWPmix comment	: No known effects from this product.

<b>SECTION 13: Disposal consideratio</b>	ns
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Flammable vapors may accumulate in the container.

SECTION 14: Transport informati	on
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN1263 Paint, 3, III
UN-No.(DOT)	: UN1263
Proper Shipping Name (DOT)	: Paint
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 3 - Flammable liquid
	FLAMMABLE LIQUID 3

DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)

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DOT Special Provisions (49 CFR 172.102)	<ul> <li>B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.</li> <li>B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>T2 - 1.5 178.274(d)(2) Normal</li></ul>			
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150			
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)				
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L			
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.			
Emergency Response Guide (ERG) Number	: 128			
Other information	: No supplementary information available.			
Transportation of Dangerous Goods Not applicable				
Transport by sea				
Transport document description (IMDG)	: UN 1263 PAINT, 3, III			
UN-No. (IMDG)	: 1263 : PAINT			
Proper Shipping Name (IMDG)				
Class (IMDG) Packing group (IMDG)	<ul> <li>3 - Flammable liquids</li> <li>III - substances presenting low danger</li> </ul>			
Limited quantities (IMDG)	: 5L			
Air transport				
Transport document description (IATA) UN-No. (IATA)	: UN 1263 Paint, 3, III : 1263			
Proper Shipping Name (IATA)	: Paint			
Class (IATA)	: 3 - Flammable Liquids			
Packing group (IATA)	: III - Minor Danger			
SECTION 15: Regulatory information				
15.1. US Federal regulations				
solvent naphtha (petroleum), light aromatic (				
Listed on the United States TSCA (Toxic Substances Control Act) inventory				

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

#### cumene (98-82-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 CERCLA RQ 5000 lb

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# 15.2. International regulations CANADA solvent naphtha (petroleum), light aromatic (64742-95-6) Listed on the Canadian DSL (Domestic Substances List) 1,2,4-Trimethylbenzene (95-63-6) Listed on the Canadian DSL (Domestic Substances List) cumene (98-82-8) Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

#### cumene (98-82-8)

Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)

#### 15.3. US State regulations

cumene (98-82-8)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	No	No	No	

#### 1,2,4-Trimethylbenzene (95-63-6)

U.S. - New Jersey - Right to Know Hazardous Substance List

#### cumene (98-82-8)

Revision date

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

#### **SECTION 16: Other information**

: 02/17/2019

H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H340	May cause genetic defects
H350	May cause cancer
H411	Toxic to aquatic life with long lasting effects

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product