

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Canadian Hazardous Products Regulations (HPR) Date of issue: 03/17/2015, Revision date: 08/14/2018 Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form Trade name

: Mixture

: OMEGALAQTM Liquid Temperature Lacquers 425 °F (218 °C), 225 °F (107 °C)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Temperature indicator

1.3. Details of the supplier of the safety data sheet

OMEGA Engineering, INC. 800 Connecticut Ave, Suite 5N01 Norwalk, CT 06854 USA (800)-848-4286 or (203)-359-1660 Fax: (203)-359-7700 info@omega.com

1.4. **Emergency telephone number**

Emergency number

24-hour emergency: ChemTel U.S. : 1-800-255-3924 International: +1-813-248-0585

SECTION 2: Hazards identification

Classification of the substance or mixture 2.1.

Classification in accordance with the Globally Harmonized Standard

Skin Irrit. 2 H315 Eye Irrit. 2A H319 Carc. 2 H351 Repr. 1B H360 STOT SE 3 H335 STOT SE 3 H336 STOT RE 2 H373

Full text of classification categories and H statements : see section 16

2.2 Label elements

GHS-US labelling

Hazard pictograms (GHS-US)

	GHS07 GHS08
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation H336 - May cause drowsiness or dizziness H351 - Suspected of causing cancer H360 - May damage fertility or the unborn child H373 - May cause damage to organs through prolonged or repeated exposure
Precautionary statements (GHS-US)	 P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood P260 - Do not breathe mist, spray, vapours P261 - Avoid breathing dust/fume/gas/mist/vapours/spray P264 - Wash hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear eye protection, protective clothing, protective gloves P302+P352 - If on skin: Wash with plenty of water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
31/07/2015	EN (English)

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P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313 - If exposed or concerned: Get medical advice/attention
P312 - Call a doctor if you feel unwell
P314 - Get medical advice/attention if you feel unwell
P321 - Specific treatment (see First aid measures on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards

2.4 Unknown acute toxicity (GHS US)

0.5 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

0.5 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	% (w/w)	GHS-US classification
1-bromopropane	(CAS No) 106-94-5	53.58 – 55.24 : 225 °F 70.94 – 73.13 : 425 °F	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Repr. 1B, H360 STOT SE 3, H336 STOT SE 3, H335 STOT RE 2, H373
N,N'-Di-2-Naphthyl-P-Phenylenediamine	(CAS No) 93-46-9	20.84 – 21.05 : 425 °F	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
1,1,1 Tris Ethane	(CAS No) 27955-94-8	3.68 – 3.72 : 425 °F	Aquatic Chronic 2, H411
Toluene	(CAS No) 108-88-3	1.8 – 1.88 : 225 °F	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
methyl violet, Basic Violet 1, C.I. 42535	(CAS No) 8004-87-3	0.21 : 225 °F 0.62 : 425 °F	Acute Tox. 3 (Oral), H301 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2-epoxybutane	(CAS No) 106-88-7	0.39 : 225 °F 0.51 : 425 °F	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 STOT SE 3, H335 Aquatic Chronic 3, H412

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measuresFirst-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical
advice (show the label where possible).First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.First-aid measures after skin contact: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.First-aid measures after eye contact: 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.First-aid measures after ingestion: Drink plenty of water. Immediately call a POISON CENTER or doctor/physician. Do NOT
induce vomiting.

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4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/injuries	: May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Suspected of causing cancer.	
Symptoms/injuries after inhalation	: May cause respiratory irritation. May cause drowsiness or dizziness.	
Symptoms/injuries after skin contact	: Causes skin irritation.	
Symptoms/injuries after eye contact	: Causes serious eye irritation.	

4.3. Indication of any immediate medical attention and special treatment needed

All treatments should be based on observed signs and symptoms of distress in the patient.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Sand. Water fog.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the sub	ostance or mixture
Fire hazard	: Burning produces irritating, toxic and noxious fumes.
Explosion hazard	: Product is not explosive.
Reactivity	: No dangerous reactions known.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flame resistant/retardant clothing. Wear a self contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures		
General measures	: Avoid all eye and skin contact and do not breathe vapour and mist.	
6.1.1. For non-emergency personnel		
Protective equipment	: Chemical goggles or safety glasses. Wear suitable protective clothing and gloves.	
Emergency procedures	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment	: Chemical goggles or safety glasses. Wear suitable protective clothing and gloves.	
Emergency procedures	: Stop leak if safe to do so. Ventilate area.	
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for containm	nent and cleaning up	
For containment	: Absorb and/or contain spill with inert material, then place in suitable container. Do not allow minor leaks or spills to accumulate on walking surfaces.	
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Take up in non-combustible absorbent material and shove into container for disposal.	

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid breathing mist, spray, vapours. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well- ventilated area.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep container tightly closed. Keep only in the original container in a cool well ventilated place.
Incompatible products	: Strong acids. Strong bases.

Incompatible materials Prohibitions on mixed storage

- : Heat sources. Direct sunlight.
- : Incompatible materials.

7.3. Specific end use(s)

Temperature indicator.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters			
OMEGALAQ™ Liquid Temperature Lacquers 425 °F (218 °C), 225 °F (107 °C)			
ACGIH	Not applicable		
OSHA	Not applicable		
methyl violet, Basic Violet 1,	C.I. 42535 (8004-87-3)		
ACGIH	Not applicable		
OSHA	Not applicable		
1,2-epoxybutane (106-88-7)			
ACGIH	Not applicable		
OSHA	Not applicable		
1-bromopropane (106-94-5)	-		
ACGIH	ACGIH TWA (ppm)	10 ppm	
ACGIH	Remark (ACGIH)	Liver & embryo/fetal dam; A3	
OSHA	Not applicable		
1,1,1 Tris Ethane (27955-94-8	3)		
ACGIH	Not applicable		
OSHA	Not applicable		
N,N'-Di-2-Naphthyl-P-Phenyl	enediamine (93-46-9)		
ACGIH	Not applicable		
OSHA	Not applicable		
Toluene (108-88-3)			
ACGIH	ACGIH TWA (ppm)	20 ppm	
ACGIH	Remark (ACGIH)	Visual impair; female repro;	
OSHA	OSHA PEL (TWA) (ppm)	200 ppm	
OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm	
OSHA	Remark (OSHA)	(2) See Table Z-2.	
Canada (Quebec)	VECD (mg/m ³)	565 mg/m³	
Canada (Quebec)	VECD (ppm)	150 ppm	
Canada (Quebec)	VEMP (mg/m ³)	377 mg/m³	
Canada (Quebec)	VEMP (ppm) 100 ppm		

8.2. Exposure controls

Appropriate engineering controls	: Avoid creating mist or spray. Avoid splashing. Either local exhaust or general room ventilation is usually required.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Use rubber gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing. Long sleeved protective clothing.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Use an approved respirator equipped with oil/mist cartridges.
Thermal hazard protection	: Wear fire/flame resistant/retardant clothing.

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Consumer exposure controls Other information : Avoid contact during pregnancy/while nursing.

: Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and c	he	mical properties
Physical state	:	Liquid
Appearance	:	Opaque liquid.
Colour	:	violet.
Odour	:	mild.
Odour threshold	:	No data available
рН	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	70 °C
Flash point	:	> 96.1 °C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	No data available
Log Pow	:	No data available
Log Kow	:	No data available
Viscosity, kinematic		No data available
Viscosity, dynamic		No data available
Explosive properties		No data available
Oxidising properties		No data available
Explosive limits	:	No data available
9.2. Other information		

VOC content

: 73.1 %

SECTION 10: Stability and reactivity
10.1. Reactivity No dangerous reactions known.
10.2. Chemical stability Stable under normal conditions.
10.3. Possibility of hazardous reactions Hazardous polymerization will not occur.
10.4. Conditions to avoid Direct sunlight. Heat.
10.5. Incompatible materials Strong bases. Strong acids.
10.6. Hazardous decomposition products Burning produces irritating, toxic and noxious fumes. Carbon dioxide. Carbon monoxide. Hydrogen halide. Bromides.
SECTION 11: Toxicological information
11.1 Information on toxicological effects

11.1. Information on toxicological effects

Acute toxicity

: Not classified

methyl violet, Basic Violet 1, C.I. 42535 (8004-87-3)	
LD50 oral rat	244 mg/kg
ATE CLP (oral)	244.000 mg/kg bodyweight

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1.2 energy hutens (106.99.7)	
1,2-epoxybutane (106-88-7) LD50 oral rat	4400
ATE CLP (oral)	1100 µl/kg
ATE CLP (drimal)	500.000 mg/kg bodyweight 1100.000 mg/kg bodyweight
ATE CLP (gases)	4500.000 ppmv/4h
ATE CLP (gases)	11.000 mg/l/4h
ATE CLP (vapours) ATE CLP (dust,mist)	1.500 mg/l/4h
	1.500 mg///4m
1-bromopropane (106-94-5)	0000
LD50 oral rat	> 2000
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (ppm)	14374 ppm/4h
ATE CLP (gases)	14374.000 ppmv/4h
1,1,1 Tris Ethane (27955-94-8)	
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight
N,N'-Di-2-Naphthyl-P-Phenylenediamine (93	-46-9)
LD50 oral rat	4500 mg/kg
ATE CLP (oral)	4500.000 mg/kg bodyweight
Toluene (108-88-3)	
LD50 oral rat	5580 mg/kg EU Method B.1 (Acute Toxicity (Oral))
LC50 inhalation rat (mg/l)	> 20 mg/l/4h OECD Guideline 403 (Acute Inhalation Toxicity)
ATE CLP (oral)	5580.000 mg/kg bodyweight
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
1,2-epoxybutane (106-88-7)	
IARC group	2B - Possibly carcinogenic to humans
Toluene (108-88-3)	
IARC group	3 - Not classifiable
Reproductive toxicity	: May damage fertility or the unborn child.
Specific target organ toxicity (single	
exposure)	: May cause respiratory irritation. May cause drowsiness or dizziness.
	May cause respiratory irritation. May cause drowsiness or dizziness.May cause damage to organs through prolonged or repeated exposure.
exposure) Specific target organ toxicity (repeated exposure)	
exposure) Specific target organ toxicity (repeated	
exposure) Specific target organ toxicity (repeated exposure) 1-bromopropane (106-94-5) NOAEL (inhalation, rat, dust/mist/fume, 90 days)	: May cause damage to organs through prolonged or repeated exposure.
exposure) Specific target organ toxicity (repeated exposure) 1-bromopropane (106-94-5) NOAEL (inhalation, rat, dust/mist/fume, 90 days) Toluene (108-88-3)	: May cause damage to organs through prolonged or repeated exposure.
exposure) Specific target organ toxicity (repeated exposure) 1-bromopropane (106-94-5) NOAEL (inhalation, rat, dust/mist/fume, 90 days)	: May cause damage to organs through prolonged or repeated exposure.
exposure) Specific target organ toxicity (repeated exposure) 1-bromopropane (106-94-5) NOAEL (inhalation, rat, dust/mist/fume, 90 days) Toluene (108-88-3) LOAEL (inhalation, rat, gas, 90 days) NOAEL (oral, rat, 90 days)	 May cause damage to organs through prolonged or repeated exposure. 1 mg/l/6h/day 1250 ppmv/6h/day 625 mg/kg bodyweight/day EU Method B.26. Increased relative weights of liver and kidney are interpreted as toxicologically insignificant differences in the absence of histological
exposure) Specific target organ toxicity (repeated exposure) 1-bromopropane (106-94-5) NOAEL (inhalation, rat, dust/mist/fume, 90 days) Toluene (108-88-3) LOAEL (inhalation, rat, gas, 90 days) NOAEL (oral, rat, 90 days) NOAEL (inhalation, rat, gas, 90 days)	 May cause damage to organs through prolonged or repeated exposure. 1 mg/l/6h/day 1250 ppmv/6h/day 625 mg/kg bodyweight/day EU Method B.26. Increased relative weights of liver and kidney are interpreted as toxicologically insignificant differences in the absence of histological findings.
exposure) Specific target organ toxicity (repeated exposure) 1-bromopropane (106-94-5) NOAEL (inhalation, rat, dust/mist/fume, 90 days) Toluene (108-88-3) LOAEL (inhalation, rat, gas, 90 days) NOAEL (oral, rat, 90 days) NOAEL (inhalation, rat, gas, 90 days) Aspiration hazard	 May cause damage to organs through prolonged or repeated exposure. 1 mg/l/6h/day 1250 ppmv/6h/day 625 mg/kg bodyweight/day EU Method B.26. Increased relative weights of liver and kidney are interpreted as toxicologically insignificant differences in the absence of histological findings. 300 ppmv/6h/day OECD Guideline 453 Not classified
exposure) Specific target organ toxicity (repeated exposure) 1-bromopropane (106-94-5) NOAEL (inhalation, rat, dust/mist/fume, 90 days) Toluene (108-88-3) LOAEL (inhalation, rat, gas, 90 days) NOAEL (oral, rat, 90 days) NOAEL (inhalation, rat, gas, 90 days) Aspiration hazard Potential adverse human health effects and s	 May cause damage to organs through prolonged or repeated exposure. 1 mg/l/6h/day 1250 ppmv/6h/day 625 mg/kg bodyweight/day EU Method B.26. Increased relative weights of liver and kidney are interpreted as toxicologically insignificant differences in the absence of histological findings. 300 ppmv/6h/day OECD Guideline 453 Not classified symptoms
exposure) Specific target organ toxicity (repeated exposure) 1-bromopropane (106-94-5) NOAEL (inhalation, rat, dust/mist/fume, 90 days) Toluene (108-88-3) LOAEL (inhalation, rat, gas, 90 days) NOAEL (oral, rat, 90 days) NOAEL (inhalation, rat, gas, 90 days) NOAEL (inhalation, rat, gas, 90 days) Aspiration hazard Potential adverse human health effects and s Symptoms/injuries after inhalation	 May cause damage to organs through prolonged or repeated exposure. 1 mg/l/6h/day 1250 ppmv/6h/day 625 mg/kg bodyweight/day EU Method B.26. Increased relative weights of liver and kidney are interpreted as toxicologically insignificant differences in the absence of histological findings. 300 ppmv/6h/day OECD Guideline 453 Not classified symptoms May cause respiratory irritation. May cause drowsiness or dizziness.
exposure) Specific target organ toxicity (repeated exposure) 1-bromopropane (106-94-5) NOAEL (inhalation, rat, dust/mist/fume, 90 days) Toluene (108-88-3) LOAEL (inhalation, rat, gas, 90 days) NOAEL (oral, rat, 90 days) NOAEL (oral, rat, 90 days) NOAEL (inhalation, rat, gas, 90 days) Aspiration hazard Potential adverse human health effects and s Symptoms/injuries after inhalation Symptoms/injuries after skin contact	 May cause damage to organs through prolonged or repeated exposure. 1 mg/l/6h/day 1250 ppmv/6h/day 625 mg/kg bodyweight/day EU Method B.26. Increased relative weights of liver and kidney are interpreted as toxicologically insignificant differences in the absence of histological findings. 300 ppmv/6h/day OECD Guideline 453 Not classified symptoms May cause respiratory irritation. May cause drowsiness or dizziness. Causes skin irritation.
exposure) Specific target organ toxicity (repeated exposure) 1-bromopropane (106-94-5) NOAEL (inhalation, rat, dust/mist/fume, 90 days) Toluene (108-88-3) LOAEL (inhalation, rat, gas, 90 days) NOAEL (oral, rat, 90 days) NOAEL (oral, rat, 90 days) NOAEL (inhalation, rat, gas, 90 days) Aspiration hazard Potential adverse human health effects and s Symptoms/injuries after inhalation Symptoms/injuries after skin contact Symptoms/injuries after eye contact	 May cause damage to organs through prolonged or repeated exposure. 1 mg/l/6h/day 1250 ppmv/6h/day 625 mg/kg bodyweight/day EU Method B.26. Increased relative weights of liver and kidney are interpreted as toxicologically insignificant differences in the absence of histological findings. 300 ppmv/6h/day OECD Guideline 453 Not classified symptoms May cause respiratory irritation. May cause drowsiness or dizziness. Causes skin irritation. Causes serious eye irritation.
exposure) Specific target organ toxicity (repeated exposure) 1-bromopropane (106-94-5) NOAEL (inhalation, rat, dust/mist/fume, 90 days) Toluene (108-88-3) LOAEL (inhalation, rat, gas, 90 days) NOAEL (oral, rat, 90 days) NOAEL (oral, rat, 90 days) NOAEL (inhalation, rat, gas, 90 days) Aspiration hazard Potential adverse human health effects and s Symptoms/injuries after inhalation Symptoms/injuries after skin contact	 May cause damage to organs through prolonged or repeated exposure. 1 mg/l/6h/day 1250 ppmv/6h/day 625 mg/kg bodyweight/day EU Method B.26. Increased relative weights of liver and kidney are interpreted as toxicologically insignificant differences in the absence of histological findings. 300 ppmv/6h/day OECD Guideline 453 Not classified symptoms May cause respiratory irritation. May cause drowsiness or dizziness. Causes skin irritation.

12.1 Toxicity

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Ecology - water	: Harmful to aquatic life with long lasting effects.
1,2-epoxybutane (106-88-7)	
LC50 fish 1	> 100 mg/l 96 h
EC50 Daphnia 1	70 mg/l 48 h
ErC50 (algae)	> 500 mg/l 72 h
1-bromopropane (106-94-5)	
EC50 Daphnia 1	203 mg/l 24 h
ErC50 (algae)	52.4 mg/l
Toluene (108-88-3)	
LC50 fish 1	5.5 mg/l
EC50 Daphnia 2	3.78 mg/l
ErC50 (algae)	134 mg/l
LOEC (chronic)	2.77 mg/l
NOEC chronic fish	1.39 mg/l
NOEC chronic crustacea	0.74 mg/l
2.2. Persistence and degradability	
OMEGALAQ [™] Liquid Temperature Lacqu	Jers 425 °F (218 °C), 225 °F (107 °C)
Persistence and degradability	May cause long-term adverse effects in the environment.
1,2-epoxybutane (106-88-7)	
Persistence and degradability	Readily biodegradable.
1-bromopropane (106-94-5)	
Persistence and degradability	Readily biodegradable.
1,1,1 Tris Ethane (27955-94-8)	· ·
Persistence and degradability	Not readily biodegradable.
Biodegradation	8%
Toluene (108-88-3)	
Persistence and degradability	Readily biodegradable.
2.3. Bioaccumulative potential	
-	
1,2-epoxybutane (106-88-7)	0.90
Log Pow	0.86
1-bromopropane (106-94-5)	
BCF fish 1	11.29 L/kg wwt
Log Pow	2.16
1,1,1 Tris Ethane (27955-94-8)	
Log Kow	3.88
N,N'-Di-2-Naphthyl-P-Phenylenediamine	
Log Pow	6.39
Toluene (108-88-3)	
Bioconcentration factor (BCF REACH)	90
Log Kow	2.73
2.4. Mobility in soil	
-	

No additional information available

SECTION 13: Disposal considerations	
13.1 Waste treatment methods	
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
SECTION 14: Transport informa	tion

In accordance with DOT and TDG

Not considered a dangerous good for transport regulations

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Proper Shipping Name (ADR)

: Not applicable

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information		
15.1. US Federal regulations		
methyl violet, Basic Violet 1, C.I. 42535 (8004-8	37-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
1,2-epoxybutane (106-88-7)		
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State		
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb	
1-bromopropane (n-propyl bromide) (106-94-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
1,1,1 Tris Ethane (27955-94-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
EPA TSCA Regulatory Flag	P - P - indicates a commenced PMN substance.	
N,N'-Di-2-Naphthyl-P-Phenylenediamine (93-46-9)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Toluene (108-88-3)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313		
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb	

15.2. International regulations

CANADA

methyl violet, Basic Violet 1, C.I. 42535 (8004-87-3)		
Listed on the Canadian DSL (Domestic Substances List) inventory.		
1,2-epoxybutane (106-88-7)		
Listed on the Canadian DSL (Domestic Substances List) inventory.		
1-bromopropane (n-propyl bromide) (106-94-5)		
Listed on the Canadian DSL (Domestic Substances List) inventory.		
1,1,1 Tris Ethane (27955-94-8)		
Listed on the Canadian NDSL (Non-Domestic Substances List)		
WHMIS Classification Uncontrolled product according to WHMIS classification criteria		
N,N'-Di-2-Naphthyl-P-Phenylenediamine (93-46	6-9)	
Listed on the Canadian DSL (Domestic Substances List) inventory.		
Toluene (108-88-3)		
Listed on the Canadian DSL (Domestic Substances List) inventory.		

EU-Regulations

methyl violet, Basic Violet 1, C.I. 42535 (8004-87-3)	
Listed on ELINCS (European List of Notified Chemical Substances)	
1,2-epoxybutane (106-88-7)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
1-bromopropane (n-propyl bromide) (106-94-5)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
1,1,1 Tris Ethane (27955-94-8)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	

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N,N'-Di-2-Naphthyl-P-Phenylenediamine (93-46-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Toluene (108-88-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

OMEGALAQ[™] Liquid Temperature Lacquers 425 °F (218 °C), 225 °F (107 °C)

All components are listed on the EEC inventory European Inventory of Existing Commercial Chemical Substances (EINECS).

All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

All ingredients are listed in the Toxic Substances Control Act (TSCA).

15.3. US State regulations

1-bromopropane (n-propyl bromide) (106-94-5)				
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	Non-significant risk level (NSRL)
No	Yes	Yes	Yes	
Toluene (108-88-3)				
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	Non-significant risk level (NSRL)
No	Yes	Yes	Yes	7000
1,2-epoxybutane (106-88-	7)			
U.S Massachusetts - Rig U.S New Jersey - Right to U.S Pennsylvania - RTK	o Know Hazardous Substance	List		
Toluene (108-88-3)				
U.S Massachusetts - Rig U.S New Jersey - Right to	ht To Know List o Know Hazardous Substance	List		

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

SECTION 16: Other information

Indication of changes	: Added. Product.
Data sources	: ACGIH 2000.
	Canadian Centre for Occupational Health and Safety. Accessed at: http://www.ccohs.ca/oshanswers/legisl/whmis_classifi.html.
	ESIS (European chemincal Substances Information System; accessed at: <u>http://esis.jrc.ec.europa.eu/index.php?PGM=cla</u> .
	European Chemicals Agency (ECHA) Registered Substances list. Accessed at http://echa.europa.eu/. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.
	National Fire Protection Association; Fire Protection Guide to Hazardous Materials; 10th edition.
	OSHA 29CFR 1910.1200 Hazard Communication Standard.
	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
	TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Canadian Hazardous Products Regulations (HPR)

Abbreviations and acronyms	: ACGIH (American Conference of Governement Industrial Hygienists).
	ATE: Acute Toxicity Estimate.
	CAS (Chemical Abstracts Service) number.
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population.
	OSHA: Occupational Safety & Health Administration.
	PBT: Persistent, Bioaccumulative, Toxic.
	STEL: Short Term Exposure Limits.
	TSCA: Toxic Substances Control Act.
	TWA: Time Weight Average.
Other information	: None.
NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.
NFPA reactivity	 O - Normally stable, even under fire exposure conditions, and not reactive with water.

Full text of H-statements:

xt of H-statements:	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H361	Suspected of damaging fertility or the unborn child

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H373	May cause damage to organs through prolonged or repeated exposure
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
H412	Harmful to aquatic life with long lasting effects

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LACO NA GHS SDS

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