Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • **Varidur Liquid / SDS# 9317202**

SDS Number/Grade • 9317202

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

Relevant identified use(s) • Mounting material for metallographic specimens

1.3 Details of the supplier of the safety data sheet

Manufacturer • BUEHLER, a division of Illinios Tool Works Inc.

41 Waukegan Road
Lake Bluff, IL 60044
United States
https://www.buehler.com

Telephone (Technical) • 847-295-6500

1.4 Emergency telephone number

Manufacturer • 800-424-9300 - CHEMTREC

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]
According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP • Skin Irritation 2 - H315
Eye Irritation 2 - H319
Hazardous to the aquatic environment Chronic 3 - H412

DSD/DPD • Irritant (Xi)
Dangerous to the Environment (N)
R36/38, R52, R53

2.2 Label Elements

CLP

WARNING

Hazard statements • H315 - Causes skin irritation

H319 - Causes serious eye irritation
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements

Prevention
- P264 - Wash thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P362 - Take off contaminated clothing and wash before reuse.
P321 - Specific treatment, see supplemental first aid information.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.

Storage/Disposal
- P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD

Risk phrases
- R36/38 - Irritating to eyes and skin.
R52 - Harmful to aquatic organisms.
R53 - May cause long-term adverse effects in the aquatic environment.

Safety phrases
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S57 - Use appropriate containment to avoid environmental contamination.

2.3 Other Hazards

CLP
- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

DSD/DPD
- According to European Directive 1999/45/EC this material is not considered dangerous.

UN GHS

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

2.1 Classification of the substance or mixture

UN GHS
- Flammable Liquids 4
Skin Irritation 2
Eye Irritation 2
Hazardous to the aquatic environment Chronic 3

2.2 Label elements

UN GHS

WARNING

Hazard statements
- Combustible liquid
Causes skin irritation
Causes serious eye irritation
Harmful to aquatic life with long lasting effects

Precautionary statements

Prevention
- Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
Wash thoroughly after handling.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

Response • In case of fire: Use appropriate media for extinction.
IF ON SKIN: Wash with plenty of soap and water.
Take off contaminated clothing and wash before reuse.
Specific treatment, see supplemental first aid information.
If skin irritation occurs: Get medical advice/attention.
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.

Storage/Disposal • Store in a well-ventilated place. Keep cool.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

UN GHS • According to the Globally Harmonized System for Classification and Labeling (GHS) this product is considered hazardous.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012 • Flammable Liquids 4
Skin Irritation 2
Eye Irritation 2

2.2 Label elements

OSHA HCS 2012

WARNING

Hazard statements • Combustible liquid
Causes skin irritation
Causes serious eye irritation

Precautionary statements

Prevention • Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
Wash thoroughly after handling.
Wear protective gloves and eye/face protection , .

Response • In case of fire: Use appropriate media for extinction.
If on skin: Wash with plenty of water .
Specific treatment, see supplemental first aid information.
Take off contaminated clothing and wash before reuse.
If skin irritation occurs: Get medical advice/attention.
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.

Storage/Disposal • Store in a well-ventilated place. Keep cool.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

OSHA HCS 2012 • Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to: WHMIS

2.1 Classification of the substance or mixture

WHMIS

- Combustible Liquids - B3
  Other Toxic Effects - D2B

2.2 Label elements

WHMIS

- Combustible Liquids - B3
  Other Toxic Effects - D2B

2.3 Other hazards

WHMIS

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance.

3.2 Mixtures

Composition					
Chemical Name	**Identifiers**	**%**	**LD50/LC50**	**Classifications According to Regulation/Directive**	**Comments**
2-Methyl(tetrahydro-2-furanyl)methyl-2-propenoate	**CAS:**2455-24-5 **EINECS:**219-529-5	50% TO 70%	NDA	**UN GHS:** Skin Irrit. 2; Eye Irrit. 2; Aquatic Chronic 3 **EU DSD/DPD:** Xi; R36/38; R52-53 **EU CLP:** Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412 **OSHA HCS 2012:** Skin Irrit. 2; Eye Irrit. 2	NDA
Hydroxypropyl methacrylate	**CAS:**27813-02-1 **EC Number:**248-666-3	20% TO 30%	Ingestion/Oral-Rat LD50 • 11200 mg/kg	**UN GHS:** Not Classified **EU DSD/DPD:** Not Classified **EU CLP:** Not Classified **OSHA HCS 2012:** Not Classified	NDA
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	**CAS:**2082-81-7 **EINECS:**218-218-1	1% TO 5%	NDA	**UN GHS:** Skin Irrit. 2; Eye Irrit. 2 **EU DSD/DPD:** Xi; R36/38 **EU CLP:** Skin Irrit. 2, H315; Eye Irrit. 2, H319 **OSHA HCS 2012:** Skin Irrit. 2; Eye Irrit. 2	NDA
p-Toluidine, N,N-dimethyl-	**CAS:**99-97-8 **EC Number:**202-805-4 **EU Index:**612-056-00-9	< 1%	Inhalation-Rat LC50 • 1400 mg/m³ 4 Hour(s) Skin-Rabbit LD50 • >2000 mg/kg Ingestion/Oral-Rat LD50 • 980 mg/kg	**UN GHS:** Flam. Liq. 4; Acute Tox. 4 (orl); Acute Tox. 2 (inhl); Eye Irrit. 2; Aquatic Acute 3 **EU DSD/DPD:** Annex VI, Table 3.2: T, R23/24/25; R33; R52, R53 **EU CLP:** Annex VI, Table 3.1: Acute Tox. 3 *, H331; Acute Tox. 3 *, H311; Acute Tox. 3 *, H301; STOT RE 2 *, H373 **; Aquatic Chronic 3, H412 **OSHA HCS 2012:** Flam. Liq. 4; Acute Tox. 4 (Oral); Acute Tox. 2 (Inhl); Eye Irrit. 2	NDA
	CAS:79-41-4 **EC**			**UN GHS:** Skin Corr. 1B; Eye Dam. 1; Acute Tox. 3 (skn); Acute Tox. 4 (orl) **EU DSD/DPD:** Annex VI, Table 3.2: Xn, R21/22;	

Methacrylic acid	**Number:**201-204-4 **EU Index:**607-088-00-5	< 1%	NDA	C, R35 **EU CLP:** Annex VI, Table 3.1: Acute Tox. 4 *, H312; Acute Tox. 4 *, H302; Skin Corr. 1A, H314 **OSHA HCS 2012:** Skin Corr. 1B; Eye Dam. 1; Acute Tox. 3 (Skin); Acute Tox. 4 (Oral)	NDA

See Section 16 for full text of H-statements and R-phrases.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation
- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin
- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Wash skin with soap and water. If irritation develops and persists, get medical attention.

Eye
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion
- Do NOT induce vomiting. Rinse mouth. Give plenty of water to drink. Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media
- Alcohol foam, CO2, dry chemical, foam, water fog.

Unsuitable Extinguishing Media
- Do not use a direct stream of water.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- Containers may explode when heated.
Vapor explosion hazard indoors, outdoors or in sewers.
HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
Many liquids are lighter than water.
Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
Runoff to sewer may create fire or explosion hazard.
Vapors may form explosive mixtures with air.
Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products
- Risk of formation of toxic pyrolysis products. Carbon monoxide (CO). Nitrogen oxides (NOx)

5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection.
Wear positive pressure self-contained breathing apparatus (SCBA).
Move containers from fire area if you can do it without risk.
LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Ventilate the area before entry. Do not walk through spilled material. High risk of slipping due to leakage/spillage of product. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. LARGE SPILL: Consider initial downwind evacuation for at least 300 meters (1000 feet) ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind. Keep out of low areas.

6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Stop leak if you can do it without risk.
  Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
  Use clean non-sparking tools to collect absorbed material.
  A vapor suppressing foam may be used to reduce vapors.
  All equipment used when handling the product must be grounded.
  LARGE SPILLS: Dike far ahead of liquid spill for later disposal.
  LARGE SPILLS: Water spray may reduce vapor; but may not prevent ignition in closed spaces.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Use only in well ventilated areas. Avoid contact with heat and ignition sources. Do not use sparking tools. Take precautionary measures against static charges. All equipment used when handling the product must be grounded. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing mist, vapours and/or spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Keep container tightly closed. Store in a cool/low-temperature, well-ventilated dry place away from heat and ignition sources.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines			
	Result	**ACGIH**	**NIOSH**
Methacrylic acid (79-41-4)	TWAs	20 ppm TWA	20 ppm TWA; 70 mg/m3 TWA

8.2 Exposure controls

Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof electrical/ventilating/lighting/equipment.

Personal Protective Equipment

Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear safety goggles.

Skin/Body

- Wear appropriate gloves.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene
MSHA = Mine Safety and Health Administration
NIOSH = National Institute of Occupational Safety and Health
OSHA = Occupational Safety and Health Administration
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Various colored liquid with a characteristic odor.
Color	Various	Odor	Characteristic
Odor Threshold	Data lacking		
General Properties			
Boiling Point	> 170 C(> 338 F)	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	Data lacking	Density	1.033 g/mL @ 20 C(68 F)
Water Solubility	Insoluble	Viscosity	Data lacking
Explosive Properties	Data lacking	Oxidizing Properties:	Data lacking
Volatility			
Vapor Pressure	0.03 kPa @ 20 C(68 F)	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	> 90 C(> 194 F)	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Polymerization may occur at elevated temperature. Reactions with peroxides and other radical components.

10.4 Conditions to avoid

- Keep away from heat, sparks and flame.

10.5 Incompatible materials

- Oxidizing agents.

10.6 Hazardous decomposition products

- None known.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
Hydroxypropyl methacrylate (20% TO 30%)	27813-02-1	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 11200 mg/kg; *Lungs, Thorax, or Respiration*:**Acute pulmonary edema**; *Lungs, Thorax, or Respiration*:**Dyspnea**; *Gastrointestinal*:**Other changes**
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (1% TO 5%)	2082-81-7	**Irritation:** Skin-Woman • 2 % 48 Hour(s)
p-Toluidine, N,N-dimethyl- (< 1%)	99-97-8	**Acute Toxicity:** Eye-Rabbit TDLo • 100 mg/kg; *Sense Organs and Special Senses:Eye*:**Lacrimation**; *Sense Organs and Special Senses:Eye*:**Conjunctive irritation**; Ingestion/Oral-Rat LD50 • 1650 mg/kg; Ingestion/Oral-Mouse TDLo • 250 mg/kg; *Behavioral*:**Somnolence (general depressed activity)**; *Lungs, Thorax, or Respiration*:**Respiratory depression**; *Kidney, Ureter, and Bladder*:**Urine volume decreased**; Inhalation-Rat LC50 • 1400 mg/m³ 4 Hour(s); Inhalation-Mouse TCLo • 800 mg/m³ 2 Hour(s); *Lungs, Thorax, or Respiration*:**Structural or functional change in trachea or bronchi**; *Lungs, Thorax, or Respiration*:**Dyspnea**; Skin-Rabbit LD50 • >2000 mg/kg; **Mutagen:** DNA damage • Ingestion/Oral-Rat • 1082 mg/kg
Methacrylic acid (< 1%)	79-41-4	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 1060 mg/kg; Skin-Rabbit LD50 • 500 mg/kg

GHS Properties	Classification
Respiratory sensitization	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking **UN GHS** • Data lacking
Serious eye damage/Irritation	**EU/CLP** • Eye Irritation 2 **OSHA HCS 2012** • Eye Irritation 2 **UN GHS** • Eye Irritation 2
Acute toxicity	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking **UN GHS** • Data lacking

Aspiration Hazard	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking **UN GHS** • Data lacking
Carcinogenicity	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking **UN GHS** • Data lacking
Germ Cell Mutagenicity	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking **UN GHS** • Data lacking
Skin corrosion/Irritation	**EU/CLP** • Skin Irritation 2 **OSHA HCS 2012** • Skin Irritation 2 **UN GHS** • Skin Irritation 2
Skin sensitization	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking **UN GHS** • Data lacking
STOT-RE	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking **UN GHS** • Data lacking
STOT-SE	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking **UN GHS** • Data lacking
Toxicity for Reproduction	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking **UN GHS** • Data lacking

Potential Health Effects

Inhalation

Acute (Immediate)
- No data available

Chronic (Delayed)
- No data available.

Skin

Acute (Immediate)
- Causes skin irritation.

Chronic (Delayed)
- No data available.

Eye

Acute (Immediate)
- Causes serious eye irritation.

Chronic (Delayed)
- No data available.

Ingestion

Acute (Immediate)
- No data available

Chronic (Delayed)
- No data available.

Key to abbreviations

LD = Lethal Dose
TC = Toxic Concentration
TD = Toxic Dose

Section 12 - Ecological Information

12.1 Toxicity

	CAS	
Varidur Liquid / SDS# 9317202	NDA	**Aquatic Toxicity-Fish:** 4 Day(s) LC50 *Fathead Minnow* 31.1-38.8 mg/L Comments: 2-Methyl(tetrahydro-2-furanyl)methyl-2-propenoate (2455-24-5) 4 Day(s) LC50 *Fathead minnow* 42-50.5 mg/L Comments: p-Toluidine, N,N-dimethyl- (99-97-8)

- Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Accumulation in organisms is not expected.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

14.6 Special precautions for user
- None specified.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
- Data lacking.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications
- Acute, Fire

Inventory						
Component	**CAS**	**Canada DSL**	**Canada NDSL**	**EU EINECS**	**EU ELNICS**	**TSCA**
2-Methyl (tetrahydro-2-furanyl)methyl-2-propenoate	2455-24-5	Yes	No	Yes	No	Yes
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	2082-81-7	Yes	No	Yes	No	Yes
Hydroxypropyl methacrylate	27813-02-1	Yes	No	Yes	No	Yes
Methacrylic acid	79-41-4	Yes	No	Yes	No	Yes
p-Toluidine, N,N-dimethyl-	99-97-8	Yes	No	Yes	No	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

• p-Toluidine, N,N-dimethyl-	99-97-8	Not Listed
• 2-Methyl(tetrahydro-2-furanyl)methyl-2-propenoate	2455-24-5	Not Listed
• 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	2082-81-7	Not Listed
• Methacrylic acid	79-41-4	B3, D1B, E, F
• Hydroxypropyl methacrylate	27813-02-1	Not Listed

Canada - WHMIS - Ingredient Disclosure List

• p-Toluidine, N,N-dimethyl-	99-97-8	Not Listed
• 2-Methyl(tetrahydro-2-furanyl)methyl-2-propenoate	2455-24-5	1 %
• 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	2082-81-7	1 %
• Methacrylic acid	79-41-4	1 %
• Hydroxypropyl methacrylate	27813-02-1	Not Listed

Environment

Canada - CEPA - Priority Substances List

• p-Toluidine, N,N-dimethyl-	99-97-8	Not Listed
• 2-Methyl(tetrahydro-2-furanyl)methyl-2-propenoate	2455-24-5	Not Listed
• 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	2082-81-7	Not Listed
• Methacrylic acid	79-41-4	Not Listed
• Hydroxypropyl methacrylate	27813-02-1	Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• p-Toluidine, N,N-dimethyl-	99-97-8	Not Listed
• 2-Methyl(tetrahydro-2-furanyl)methyl-2-propenoate	2455-24-5	Not Listed
• 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	2082-81-7	Not Listed
• Methacrylic acid	79-41-4	Not Listed
• Hydroxypropyl methacrylate	27813-02-1	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• p-Toluidine, N,N-dimethyl-	99-97-8	Not Listed
• 2-Methyl(tetrahydro-2-furanyl)methyl-2-propenoate	2455-24-5	Not Listed
• 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	2082-81-7	Not Listed

• Methacrylic acid	79-41-4	Not Listed
• Hydroxypropyl methacrylate	27813-02-1	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• p-Toluidine, N,N-dimethyl-	99-97-8	Not Listed
• 2-Methyl(tetrahydro-2-furanyl)methyl-2-propenoate	2455-24-5	Not Listed
• 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	2082-81-7	Not Listed
• Methacrylic acid	79-41-4	Not Listed
• Hydroxypropyl methacrylate	27813-02-1	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• p-Toluidine, N,N-dimethyl-	99-97-8	Not Listed
• 2-Methyl(tetrahydro-2-furanyl)methyl-2-propenoate	2455-24-5	Not Listed
• 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	2082-81-7	Not Listed
• Methacrylic acid	79-41-4	Not Listed
• Hydroxypropyl methacrylate	27813-02-1	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• p-Toluidine, N,N-dimethyl-	99-97-8	Not Listed
• 2-Methyl(tetrahydro-2-furanyl)methyl-2-propenoate	2455-24-5	Not Listed
• 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	2082-81-7	Not Listed
• Methacrylic acid	79-41-4	Not Listed
• Hydroxypropyl methacrylate	27813-02-1	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• p-Toluidine, N,N-dimethyl-	99-97-8	Not Listed
• 2-Methyl(tetrahydro-2-furanyl)methyl-2-propenoate	2455-24-5	Not Listed
• 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	2082-81-7	Not Listed
• Methacrylic acid	79-41-4	Not Listed
• Hydroxypropyl methacrylate	27813-02-1	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• p-Toluidine, N,N-dimethyl-	99-97-8	Not Listed
• 2-Methyl(tetrahydro-2-furanyl)methyl-2-propenoate	2455-24-5	Not Listed
• 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	2082-81-7	Not Listed
• Methacrylic acid	79-41-4	Not Listed
• Hydroxypropyl methacrylate	27813-02-1	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• p-Toluidine, N,N-dimethyl-	99-97-8	Not Listed
• 2-Methyl(tetrahydro-2-furanyl)methyl-2-propenoate	2455-24-5	Not Listed
• 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	2082-81-7	Not Listed
• Methacrylic acid	79-41-4	Not Listed
• Hydroxypropyl methacrylate	27813-02-1	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• p-Toluidine, N,N-dimethyl-	99-97-8	Not Listed
• 2-Methyl(tetrahydro-2-furanyl)methyl-2-propenoate	2455-24-5	Not Listed
• 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	2082-81-7	Not Listed
• Methacrylic acid	79-41-4	Not Listed
• Hydroxypropyl methacrylate	27813-02-1	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List		
• p-Toluidine, N,N-dimethyl-	99-97-8	carcinogen, initial date 5/2/14
• 2-Methyl(tetrahydro-2-furanyl)methyl-2-propenoate	2455-24-5	Not Listed
• 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	2082-81-7	Not Listed
• Methacrylic acid	79-41-4	Not Listed
• Hydroxypropyl methacrylate	27813-02-1	Not Listed
U.S. - California - Proposition 65 - Developmental Toxicity		
• p-Toluidine, N,N-dimethyl-	99-97-8	Not Listed
• 2-Methyl(tetrahydro-2-furanyl)methyl-2-propenoate	2455-24-5	Not Listed
• 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	2082-81-7	Not Listed
• Methacrylic acid	79-41-4	Not Listed
• Hydroxypropyl methacrylate	27813-02-1	Not Listed
U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
• p-Toluidine, N,N-dimethyl-	99-97-8	Not Listed
• 2-Methyl(tetrahydro-2-furanyl)methyl-2-propenoate	2455-24-5	Not Listed
• 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	2082-81-7	Not Listed
• Methacrylic acid	79-41-4	Not Listed
• Hydroxypropyl methacrylate	27813-02-1	Not Listed
U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)		
• p-Toluidine, N,N-dimethyl-	99-97-8	Not Listed
• 2-Methyl(tetrahydro-2-furanyl)methyl-2-propenoate	2455-24-5	Not Listed
• 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	2082-81-7	Not Listed
• Methacrylic acid	79-41-4	Not Listed
• Hydroxypropyl methacrylate	27813-02-1	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Female		
• p-Toluidine, N,N-dimethyl-	99-97-8	Not Listed
• 2-Methyl(tetrahydro-2-furanyl)methyl-2-propenoate	2455-24-5	Not Listed
• 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	2082-81-7	Not Listed
• Methacrylic acid	79-41-4	Not Listed
• Hydroxypropyl methacrylate	27813-02-1	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Male		
• p-Toluidine, N,N-dimethyl-	99-97-8	Not Listed
• 2-Methyl(tetrahydro-2-furanyl)methyl-2-propenoate	2455-24-5	Not Listed
• 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	2082-81-7	Not Listed
• Methacrylic acid	79-41-4	Not Listed
• Hydroxypropyl methacrylate	27813-02-1	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

- WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H301 - Toxic if swallowed
  H302 - Harmful if swallowed
  H311 - Toxic in contact with skin
  H314 - Causes severe skin burns and eye damage.
  H331 - Toxic if inhaled
  H373 - May cause damage to organs through prolonged or repeated exposure.
  R21/22 - Harmful in contact with skin and if swallowed.
  R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.
  R33 - Danger of cumulative effects.
  R35 - Causes severe burns.

Revision Date

- 30/July/2015

Preparation Date

- 11/September/2014

Disclaimer/Statement of Liability

- To the best of our knowledge, the information contained in this SDS is accurate or is obtained from sources believed to be accurate. However, no liability, expressed or implied, is assumed for the accuracy or completeness of the information contained herein. Buyer assumes liability in its use of the material.

Key to abbreviations

NDA = No data available