



Nails. Fashion. Beauty.

Radical SolarNail™ Sculpting Liquid – Superior Durability

Safety Data Sheet

Prepared in accordance to UN GHS standards. Intended to comply with OSHA 29CFR1910.1200, Canadian WHMIS, and Australian WorkSafe.

Revision date: Dec 5, 2014

Supersedes: April 1, 2008

Version: 8.0

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

1.1. Product identifier

Product form : Mixture
Product name. : Radical SolarNail™ Sculpting Liquid – Superior Durability

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

Use of the substance/mixture : Cosmetics, personal care products

1.3. Details of the supplier of the safety data sheet

Creative Nail Design, Inc.
1125 Joshua Way
92081 Vista, CA - USA
T +1 (760) 599-2900

1.4. Emergency telephone number

Emergency number : +1 (800) 424-9300 - CHEMTREC (US and Canada)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification in accordance with the Globally Harmonized Standard and regulations referenced above.

Flam. Liq. 3 H226
Skin Irrit. 2 H315
Eye Irrit. 2A H319
Skin Sens. 1 H317
STOT SE 3 H335

Full text of H-phrases: see section 16

2.2. Label elements

GHS label Elements: applies to OSHA 29CFR1910.1200 ; Canadian WHMIS, and Australian WorkSafe.

GHS-US labelling



Hazard pictograms (GHS-US) :

GHS02

GHS07

Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

H226 - Flammable liquid and vapour
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

Precautionary statements (GHS-US) :

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical/ventilating/lighting equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing mist/vapours/spray
P264 - Wash hands thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with plenty of soap and water

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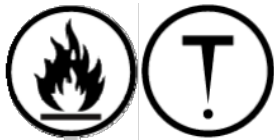
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a POISON CENTER or doctor/physician if you feel unwell
P321 - Specific treatment (see Section 4 on this label)
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362 - Take off contaminated clothing
P362+P364 - Take off contaminated clothing and wash it before reuse
P370+P378 - In case of fire: Use foam, dry powder, carbon dioxide, water spray, or sand for extinction
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P235 - Keep cool
P405 - Store locked up
P501 - Dispose of contents/container in accordance with local and national regulations

Labelling according to Canadian WHMIS

Class B Division 2 – Flammable Liquid

Class D Division 2 Subdivision B – Toxic material causing other toxic effects



2.3. Other hazards

For handling bulk quantities (>5 liters):

P240 – Ground/bond container and receiving equipment

P241 – Use explosion-proof electrical/ventilating/lighting equipment

P242 – Use only non-sparking tools

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Exact compositions are withheld due to business confidentiality. All components contributing to the hazard classification and/or with OELs are listed below:

(Full text of H-phrases: see section 16)

Name	Product identifier	%	Classification (UN-GHS): US and Australia,	Classification (WHMIS) Canada
Ethyl Methacrylate	(CAS No) 97-63-2 (Listed on Canada DSL) (Listed on Australian AICS)	<= 80	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	Class B Division 2 – Flammable Liquid Class D Division 2 Subdivision B – Toxic material causing other toxic effects
Hydroxypropyl Methacrylate	(CAS No) 27813-02-1 (Listed on Canada DSL) (Listed on Australian AICS)	< 15	Eye Irrit. 2A, H319 Skin Sens. 1, H317	Class D Division 2 Subdivision B – Toxic material causing other toxic effects
PEG-4 Dimethylacrylate	(CAS No) 109-17-1 (Listed on Canada DSL) (Listed on Australian AICS)	< 15	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317	Class D Division 2 Subdivision B – Toxic material causing other toxic effects
Drometizole	(CAS No) 2440-22-4 (Listed on Canada DSL) (Listed on Australian AICS)	< 1	Skin Sens. 1, H317 Aquatic Chronic 1, H410	Class D Division 2 Subdivision B – Toxic material causing other toxic effects
Trimethylolpropane Trimethacrylate	(CAS No) 3290-92-4 (Listed on Canada DSL) (Listed on Australian AICS)	< 1	Aquatic Chronic 2, H411	Class D Division 2 Subdivision B – Toxic material causing other toxic effects

SECTION 4: First aid measures

4.1. Description of first aid measures

First-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 to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash 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	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: May cause an allergic skin reaction. May cause respiratory irritation.
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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.
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6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
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6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No naked lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing mist/vapours/spray. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.
Storage conditions	: Keep only in the original container in a cool well ventilated place. Keep container tightly closed.
Incompatible products	: Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

Cosmetics. Professional use only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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8.2. Exposure controls

- Personal protective equipment : Avoid all unnecessary exposure.
- Appropriate engineering controls : Either local exhaust or general room ventilation is usually required. No special work practices are needed beyond the above recommendations under anticipated conditions of normal use.
- Hand protection : Gloves: recommended primarily for large-scale (industrial) operations, versus end-users for professional applications. Wear suitable gloves resistant to chemical penetration. rubber.



- Eye protection : When eye contact due to splashing is possible, wear goggles.
- Skin and body protection : Wear suitable protective clothing. Impervious clothing.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment with organic vapor cartridges.
- Other information : When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Clear liquid.
- Colour : light blue.
- Odour : Acrylic.
- Odour threshold : No data available
- pH : No data available
- Relative evaporation rate (butylacetate=1) : No data available
- Melting point : < -75 °C (198.15 K)
- Freezing point : No data available
- Boiling point : 101 °C (374.15 K)
- Flash point : 23.3 °C (296.45 K)
- Self 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 (293.15 K) : No data available
- Relative density : No data available
- Density : 0.99 calculated
- Solubility : slightly soluble.
- 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

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

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10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Likely Routes of Exposure

Dermal, inhalation

11.2. Symptoms Related to Physical, Chemical and Toxicological Characteristics

Eye and skin irritation

11.3. Effects from Exposure

Skin sensitization

11.4. Information on toxicological effects

Acute toxicity : Not classified

Ethyl Methacrylate (97-63-2)	
LD50 oral rat	13424 mg/kg
LD50 dermal rat	> 9100 mg/kg
LC50 inhalation rat (mg/l)	55 mg/l/4h
ATE (oral)	13424.000 mg/kg bodyweight
ATE (vapours)	55.000 mg/l/4h
ATE (dust,mist)	55.000 mg/l/4h

Hydroxypropyl Methacrylate (27813-02-1)	
LD50 oral rat	11200 mg/kg
LD50 dermal rat	>= 3000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
ATE (oral)	11200.000 mg/kg bodyweight

Drometrizole (2440-22-4)	
LD50 oral rat	10000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 590 mg/m ³
ATE (oral)	10000.000 mg/kg bodyweight

Trimethylolpropane Trimethacrylate (3290-92-4)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Based on available data, the classification criteria are not met
Carcinogenicity : Not classified

Ethyl Methacrylate (97-63-2)	
NOAEL (chronic,oral, animal/male,2 years)	30 mg/kg bodyweight

Hydroxypropyl Methacrylate (27813-02-1)	
NOAEL (chronic,oral, animal/male,2 years)	300 mg/kg bodyweight

Drometrizole (2440-22-4)	
NOAEL (chronic,oral, animal/male,2 years)	100 mg/kg bodyweight

Trimethylolpropane Trimethacrylate (3290-92-4)	
NOAEL (chronic,oral, animal/male,2 years)	900 mg/kg bodyweight

Reproductive toxicity : Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure) : May cause respiratory irritation.
Specific target organ toxicity (repeated exposure) : Based on available data, the classification criteria are not met
Aspiration hazard : Based on available data, the classification criteria are not met

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11.5. Carcinogenicity Lists

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

Ethyl Methacrylate (97-63-2)	
LC50 fishes 1	100 mg/l 96h
EC50 Daphnia 1	> 66 mg/l 48h
EC50 other aquatic organisms 1	> 110 mg/l 72h
NOEC (acute)	28 mg/l 96h
NOEC chronic fish	9.4 mg/l
Hydroxypropyl Methacrylate (27813-02-1)	
LC50 fishes 1	493 mg/l 48h
EC50 Daphnia 1	> 143 mg/l
Drometrizole (2440-22-4)	
LC50 fishes 1	> 0.17 mg/l
EC50 Daphnia 1	> 1000 mg/l
LOEC (chronic)	0.041 mg/l 21d
NOEC (acute)	0.17 mg/l
NOEC chronic crustacea	0.013 mg/l 21d
Trimethylolpropane Trimethacrylate (3290-92-4)	
LC50 fishes 1	2 mg/l
EC50 Daphnia 1	> 9.22 mg/l
ErC50 (algae)	3.88 mg/l
NOEC (acute)	1 mg/l
NOEC chronic algae	0.177 mg/l

12.2. Persistence and degradability

Radical SolarNail™ Sculpting Liquid – Superior Durability	
Persistence and degradability	May cause long-term adverse effects in the environment.
Ethyl Methacrylate (97-63-2)	
Biodegradation	79.1 %
Hydroxypropyl Methacrylate (27813-02-1)	
Persistence and degradability	Readily biodegradable.
Biodegradation	94.2 % after 28 days
Drometrizole (2440-22-4)	
Biodegradation	84.3 % 28 days

12.3. Bioaccumulative potential

Radical SolarNail™ Sculpting Liquid – Superior Durability	
Bioaccumulative potential	Not established.
Isostearyl Isononanoate (90967-66-1)	
Log Pow	10.02
Hydroxypropyl Methacrylate (27813-02-1)	
BCF fish 1	3.2
Log Pow	0.97
Drometrizole (2440-22-4)	
BCF fish 2	<= 2000 l/kg
Log Pow	4.2 @ 25°C (298.15 K)
Trimethylolpropane Trimethacrylate (3290-92-4)	
BCF fish 2	366 l/kg
Bioconcentration factor (BCF REACH)	0
Log Pow	2.749 - 4.193 @ 25°C (298.15 K)

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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.


SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
 Additional information : Handle empty containers with care because residual vapours are flammable.
 Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG, ADGR and the CTDGR.

14.1	49 CFR (GND): CONSUMER COMMODITY, ORM-D (<= 5.0L) UN 1993, FLAMMABLE LIQUID, N.O.S. (ETHYL METHACRYLATE, STABILIZED), 3, III, (> 5.0L)	
14.2	IATA (Air): CONSUMER COMMODITY, 9, ID8000 (<= 0.5L) UN 1993, FLAMMABLE LIQUID, N.O.S. (ETHYL METHACRYLATE, STABILIZED), 3, III, LTD QTY (>0.5 L, <= 5.0L) UN 1993, FLAMMABLE LIQUID, N.O.S. (ETHYL METHACRYLATE, STABILIZED), 3, III, (>5.0L)	
14.3	IMDG (OCN): UN 1993, FLAMMABLE LIQUID, N.O.S. (ETHYL METHACRYLATE, STABILIZED), 3, III, LTD QTY (<= 5.0L) UN 1993, FLAMMABLE LIQUID, N.O.S. (ETHYL METHACRYLATE, STABILIZED), 3, III, (> 5.0L)	
14.4	TDGR (Canadian GND): MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (<= 5.0L) UN 1993, FLAMMABLE LIQUID, N.O.S. (ETHYL METHACRYLATE, STABILIZED), 3, III, (> 5.0L)	
14.5	ADR/RID (EU): UN 1993, FLAMMABLE LIQUID, N.O.S. (ETHYL METHACRYLATE, STABILIZED), 3, III, ADR, LTD QTY (<= 5.0L)	
14.6	SCT (MEXICO): UN 1993, LIQUIDOS INFLAMABLES N.E.P. (ETHYL METHACRYLATE, STABILIZED), 3, III, CANTIDAD LIMITADA (<= 5.0L)	
14.7	ADGR (AUS): UN 1993, FLAMMABLE LIQUID, N.O.S. (ETHYL METHACRYLATE, STABILIZED), 3, III, LTD QTY (<= 5.0L)	

SECTION 15: Regulatory information

15.1. US Federal regulations

Ethyl Methacrylate (97-63-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Hydroxypropyl Methacrylate (27813-02-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

PEG-4 Dimethylacrylate (109-17-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Drometrizole (2440-22-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Trimethylolpropane Trimethacrylate (3290-92-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Radical SolarNail™ Sculpting Liquid – Superior Durability

WHMIS Classification

Class B Division 2 - Flammable Liquid
 Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Ethyl Methacrylate (97-63-2)

Listed on the Canadian DSL (Domestic Substances List) inventory.

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Hydroxypropyl Methacrylate (27813-02-1)

Listed on the Canadian DSL (Domestic Substances List) inventory.

PEG-4 Dimethylacrylate (109-17-1)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Drometrizole (2440-22-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Trimethylolpropane Trimethacrylate (3290-92-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

Ethyl Methacrylate (97-63-2)

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

Hydroxypropyl Methacrylate (27813-02-1)

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

PEG-4 Dimethylacrylate (109-17-1)

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

Drometrizole (2440-22-4)

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

Trimethylolpropane Trimethacrylate (3290-92-4)

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

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 3 H226
Skin Irrit. 2 H315
Eye Irrit. 2 H319
Skin Sens. 1 H317
STOT SE 3 H335
Aquatic Chronic 3 H412

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

R43
R10
R52/53

Full text of R-phrases: see section 16

15.2.2. National regulations

Ethyl Methacrylate (97-63-2)

Listed on Inventory of Existing Chemical Substances (IECSC)
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.
Listed on KECI (Chemical Inventory of Korea)
Listed on Taiwan National Chemical Inventory
Listed on Inventory of Chemicals and Chemical Substances (PICCS)
Listed on the AICS (the Australian Inventory of Chemical Substances).
Listed on New Zealand - Inventory of Chemicals (NZIoC)

Hydroxypropyl Methacrylate (27813-02-1)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.
Listed on KECI (Chemical Inventory of Korea)
Listed on Taiwan National Chemical Inventory
Listed on Inventory of Chemicals and Chemical Substances (PICCS)
Listed on the AICS (the Australian Inventory of Chemical Substances).
Listed on New Zealand - Inventory of Chemicals (NZIoC)

PEG-4 Dimethylacrylate (109-17-1)

Listed on New Zealand - Inventory of Chemicals (NZIoC)
Listed on the AICS (the Australian Inventory of Chemical Substances).
Listed on Inventory of Chemicals and Chemical Substances (PICCS)
Listed on Taiwan National Chemical Inventory
Listed on KECI (Chemical Inventory of Korea)
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.
Listed on Inventory of Existing Chemical Substances (IECSC)

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Drometrizole (2440-22-4)

Listed on New Zealand - Inventory of Chemicals (NZIoC)
Listed on Inventory of Chemicals and Chemical Substances (PICCS)
Listed on the AICS (the Australian Inventory of Chemical Substances).
Listed on Taiwan National Chemical Inventory
Listed on KECI (Chemical Inventory of Korea)
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.
Listed on Inventory of Existing Chemical Substances (IECSC)

Trimethylolpropane Trimethacrylate (3290-92-4)

Listed on Inventory of Existing Chemical Substances (IECSC)
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.
Listed on KECI (Chemical Inventory of Korea)
Listed on Taiwan National Chemical Inventory
Listed on Inventory of Chemicals and Chemical Substances (PICCS)
Listed on the AICS (the Australian Inventory of Chemical Substances).
Listed on New Zealand - Inventory of Chemicals (NZIoC)

15.3. US State regulations

Ethyl Methacrylate (97-63-2)

U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New York - Right to Know List of Hazardous Chemicals
U.S. - Pennsylvania - List of Hazardous Substances

SECTION 16: Other information

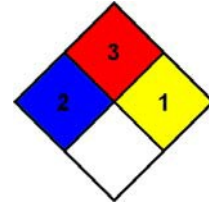
Indication of changes	: Revised format.
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database . European Chemicals Agency (ECHA) Registered Substances list. Accessed at http://echa.europa.eu/ . Kristen 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. TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html .
Abbreviations and acronyms	: CAS (Chemical Abstracts Service) number. ATE: Acute Toxicity Estimate. BCF: Bioconcentration factor. CLP: Classification, Labelling, Packaging. DNEL: Derived No Effect Level. 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. NOEC: No Observable Effect Concentration. OSHA: Occupational Safety & Health Administration. PBT: Persistent, Bioaccumulative, Toxic. PNEC: Predicted No Effect Level. TSCA: Toxic Substances Control Act. TWA: Time Weight Average.
Other information	: None.

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- 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 : 3 - Liquids and solids that can be ignited under almost all ambient conditions.
- NFPA reactivity : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



Full text of R-, H- and EUH-phrases::

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
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitisation Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
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
R10	Flammable.
R11	Highly flammable.
R36	Irritating to eyes.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
F	Highly flammable
N	Dangerous for the environment
Xi	Irritant

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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.