

SAFETY DATA SHEET

TOP PLUS

According to: Canadian WHMIS 2015, EU CLP Regulation (EC) 1272/2008, US OSHA HCS 2012

Version: 2.0 | Revision Date: 27-07-2025

SECTION 1: IDENTIFICATION

1.1 Product identifier

Trade name: TOP PLUS

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

Relevant identified uses: Professional nail enhancement top coat for use on nail plate only

Uses advised against: All other uses

1.3 Details of the supplier of the Safety Data Sheet

Initial Supplier:

| |
|--|
| Arch Rival Nails |
| 3595 12th Ave, Port Alberni, BC Canada V9Y 4W9 |
| E-mail: info@archrivalnails.com |
| Phone: 1-604-821-6829 (English- Business hours: 9 AM - 5 PM PST) |

Emergency Contact:

| |
|---|
| Primary: 1-604-821-6829 (Business hours only) |
| Secondary: Poison Control Centre Canada: 1-844-POISON-X (1-844-764-7669) - 24/7 |
| After hours: Contact local poison control center |

Bilingual Availability Statement: This SDS is available in both English and French. Une FDS en français est disponible sur demande.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

| Hazard Class | Category | Hazard Statement |
|--------------------|------------|---|
| Skin Irritation | Category 2 | H315: Causes skin irritation |
| Eye Irritation | Category 2 | H319: Causes serious eye irritation |
| Skin Sensitization | Category 1 | H317: May cause an allergic skin reaction |

2.2 Label elements

Signal Word: WARNING

Pictogram:



Hazard Statements:

- H315: Causes skin irritation
- H317: May cause an allergic skin reaction
- H319: Causes serious eye irritation

Precautionary Statements:

Prevention:

- P261: Avoid breathing dust/fume/gas/mist/vapours/spray
- P264: Wash hands and exposed skin thoroughly after handling
- P272: Contaminated work clothing should not be allowed out of the workplace
- P280: Wear protective gloves/protective clothing/eye protection/face protection

Response:

- P302+P352: IF ON SKIN: Wash with plenty of water and soap
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P321: Specific treatment (see section 4 on this SDS)
- P333+P313: If skin irritation or rash 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

Storage:

- P405: Store locked up

Disposal:

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

2.3 Other hazards

PBT/vPvB Assessment: This mixture does not contain any substances assessed to be PBT or vPvB.

Endocrine Disrupting Properties: No components are identified as having endocrine disrupting properties at concentrations $\geq 0.1\%$.

Other Information: This product contains components that may produce an allergic reaction in sensitized individuals. Contains methacrylate monomers that polymerize upon exposure to UV/LED light.

EUH208: Contains Trimethylolpropane Trimethacrylate, Ethyl(2,4,6-trimethylbenzoyl)phenylphosphinate, Hydroxycyclohexyl Phenyl ketone. May produce an allergic reaction.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS Number | EC Number | Concentration (%) | GHS Classification | SCL/M-Factor/ATE |
|--|------------|----------------|-------------------|---|-----------------------|
| Acrylates Copolymer | 25035-69-2 | Not available | 69 | Not classified as hazardous | - |
| Trimethylolpropane Trimethacrylate | 3290-92-4 | 221-950-4 | 12.5 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2, H411 | ATE oral: >2000 mg/kg |
| Dimethicone | 63148-62-9 | Not applicable | 13.5 | Not classified as hazardous | - |
| Ethyl(2,4,6-trimethylbenzoyl)phenylphosphinate | 84434-11-7 | Not available | 2.5 | Skin Sens. 1B, H317 Aquatic Chronic 4, H413 | - |
| Hydroxycyclohexyl Phenyl ketone | 947-19-3 | 213-426-9 | 2 | Skin Sens. 1, H317 | - |
| Pentaerythrityl Tetraethylhexanoate | 7299-99-2 | 230-743-8 | 0.5 | Not classified as hazardous | - |

Note: This material contains inhibitor (HQ, MEHQ) at <0.02% to prevent premature polymerization. Full text of H-statements: see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Show this safety data sheet to the doctor in attendance. Move out of dangerous area. Remove contaminated clothing immediately.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN: Wash immediately with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do after the first 5 minutes, then continue rinsing. Keep eye wide open while rinsing. If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: Rinse mouth with water. DO NOT induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Acute symptoms: Irritation of eyes, skin, and respiratory tract. May cause redness, pain, and swelling of affected areas. Allergic skin reaction in sensitized individuals.

Delayed symptoms: Skin sensitization may develop after repeated exposure. Prolonged contact may cause defatting of the skin.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. For skin sensitization: Consider corticosteroid therapy. For respiratory irritation: Consider bronchodilators if bronchospasm occurs. No specific antidote available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Water spray, alcohol-resistant foam, dry chemical, carbon dioxide (CO₂)

Unsuitable extinguishing media: Do not use water jet as this may spread the fire

5.2 Special hazards arising from the substance or mixture

Combustion products may include: Carbon oxides (CO, CO₂), smoke, and various hydrocarbons. Vapors may form explosive mixtures with air. Containers may explode when heated due to pressure buildup.

5.3 Advice for firefighters

Wear self-contained breathing apparatus (SCBA) and full protective clothing. Cool containers exposed to fire with water spray. Prevent fire-fighting water from contaminating surface water or groundwater system. Collect contaminated fire-fighting water separately.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Evacuate area. Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing. Wear appropriate personal protective equipment (see Section 8). Eliminate all sources of ignition.

For emergency responders: Use personal protection recommended in Section 8. Isolate hazard area and restrict access.

6.2 Environmental precautions

As a best practice, prevent product from entering drains, sewers, or waterways. Although not classified as environmentally hazardous, avoid release to the environment where possible.

6.3 Methods and material for containment and cleaning up

Small spills: Absorb with inert material (sand, vermiculite, earth). Place in appropriate container for disposal.

Large spills: Dike spilled material where possible. Pump into suitable containers. Absorb remainder with inert material.

6.4 Reference to other sections

See Section 8 for personal protective equipment. See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

- Use only in well-ventilated areas with local exhaust ventilation (minimum capture velocity 100 ft/min)
- Avoid contact with skin, eyes, and clothing
- Do not breathe vapors or spray mist
- Wash thoroughly after handling
- Do not eat, drink, or smoke when using this product
- Contaminated work clothing should not be allowed out of the workplace
- Keep away from heat, sparks, and open flames
- Ground/bond container and receiving equipment
- Use explosion-proof electrical/ventilating/lighting equipment

7.2 Conditions for safe storage, including any incompatibilities

- Store in cool, dry, well-ventilated area (4-27°C / 40-80°F)
- Keep container tightly closed when not in use

- Store away from direct sunlight and UV light sources
- Keep away from heat sources and incompatible materials
- Store away from oxidizing agents, strong acids, and bases
- Protect from freezing - product may stratify below 0°C
- Keep locked up and out of reach of untrained personnel
- Store in original container or approved alternatives

7.3 Specific end use(s)

Professional nail salon use only. See Section 1.2 for identified uses.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

| Component | CAS No. | OSHA PEL | ACGIH TLV | NIOSH REL | EU OEL |
|------------------------------------|-----------|-----------------|-----------------|-----------------|-----------------|
| Trimethylolpropane Trimethacrylate | 3290-92-4 | Not established | Not established | Not established | Not established |

Note: Where no exposure limits are established, maintain exposures as low as reasonably practicable (ALARP)

8.2 Exposure controls

Engineering controls:

- Provide adequate general and local exhaust ventilation
- Use process enclosures where feasible
- Ensure eyewash stations and safety showers are available
- Ventilation rates should be matched to conditions

Personal protective equipment:

Eye/face protection: Chemical safety goggles or face shield (EN166)

Skin protection:

- Hand protection: Chemical-resistant gloves (nitrile rubber ≥ 0.4 mm thickness, breakthrough time >480 minutes). Replace gloves regularly.
- Body protection: Protective clothing/lab coat. Impervious apron if splashing possible.

Respiratory protection: Under normal conditions with adequate ventilation, respiratory protection not required. If exposure limits exceeded or irritation experienced, use NIOSH-approved air-purifying respirator with organic vapor cartridge.

Thermal hazards: Not applicable under normal conditions.

Environmental exposure controls:

Prevent product from entering drains as a best practice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|---|---|
| Physical state: | Liquid |
| Color: | Clear to light yellow |
| Odor: | Slight characteristic ester odor |
| Odor threshold: | Not determined |
| pH: | Not applicable (non-aqueous) |
| Melting point/freezing point: | Not determined |
| Initial boiling point and range: | >200°C (estimated) |
| Flash point: | >93°C (200°F) - Pensky-Martens Closed Cup |
| Evaporation rate: | <0.01 (BuAc=1) |
| Flammability (solid, gas): | Not applicable (liquid) |
| Upper/lower flammability limits: | Not determined |
| Vapor pressure: | <0.01 mmHg at 20°C |
| Vapor density: | >1 (air=1) |
| Relative density: | 1.05-1.15 at 20°C |
| Solubility in water: | Insoluble (<0.1 g/L) |
| Partition coefficient (n-octanol/water): | Not determined |
| Auto-ignition temperature: | >400°C |
| Decomposition temperature: | >200°C |
| Viscosity: | 500-1500 mPa·s at 25°C |
| Explosive properties: | Not explosive |

| | |
|------------------------------|---------------|
| Oxidizing properties: | Not oxidizing |
|------------------------------|---------------|

9.2 Other information

| | |
|------------------------------------|--------------------------|
| Molecular weight (average): | Not applicable (mixture) |
| VOC content: | <5% |
| Particle characteristics: | Not applicable (liquid) |
| Conductivity: | Not determined |
| Surface tension: | Not determined |

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Polymerizes rapidly when exposed to UV/LED light or radical initiators. Stable under recommended storage conditions.

10.2 Chemical stability

Stable under normal conditions. Contains polymerization inhibitor to prevent premature polymerization.

10.3 Possibility of hazardous reactions

Hazardous polymerization may occur if exposed to UV light, elevated temperatures, or if inhibitor is depleted. Exothermic polymerization reaction releases heat.

10.4 Conditions to avoid

- UV light and direct sunlight
- Heat, flames, and sparks
- Temperatures above 50°C
- Freezing conditions
- Depletion of inhibitor
- Contact with incompatible materials

10.5 Incompatible materials

Strong oxidizing agents, strong reducing agents, strong acids, strong bases, peroxides, radical initiators, heavy metal compounds.

10.6 Hazardous decomposition products

Thermal decomposition may produce: Carbon monoxide, carbon dioxide, various hydrocarbons, acrid smoke and fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1 Information on likely routes of exposure

Primary routes: Skin contact, eye contact, inhalation. Secondary route: Ingestion (accidental).

11.2 Acute toxicity

| Component | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|-------------------|----------------------|-----------------|
| Trimethylolpropane Trimethacrylate | >2000 mg/kg (rat) | >2000 mg/kg (rabbit) | Not determined |
| Mixture ATE Values: Oral: >2000 mg/kg, Dermal: >2000 mg/kg | | | |

11.3 Skin corrosion/irritation

Causes skin irritation based on component data. Prolonged contact may cause redness, swelling, and possible blister formation.

11.4 Serious eye damage/irritation

Causes serious eye irritation. May cause redness, pain, and temporary vision impairment.

11.5 Respiratory or skin sensitization

Respiratory sensitization: Not classified based on available data.

Skin sensitization: May cause an allergic skin reaction. Contains methacrylates known to cause sensitization.

11.6 Germ cell mutagenicity

Not classified based on available data. No mutagenic effects reported for components.

11.7 Carcinogenicity

Not classified. No components are listed by IARC, NTP, or OSHA as carcinogens. Note: TMPTMA is not classified as carcinogenic unlike TMPTA.

11.8 Reproductive toxicity

Not classified based on available data. No reproductive effects reported.

11.9 STOT-single exposure

Not classified. TMPTMA concentration (12.5%) is below the 20% threshold for STOT SE 3 classification.

11.10 STOT-repeated exposure

Not classified based on available data. NOAEL for TMPTMA: 300 mg/kg bw/day (90-day oral study).

11.11 Aspiration hazard

Not classified. Viscosity >20.5 mm²/s at 40°C.

11.12 Other information

No additional toxicological information available. Health effects may be aggravated in persons with pre-existing skin, eye, or respiratory conditions.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

| Component | Aquatic Toxicity |
|------------------------------------|---|
| Trimethylolpropane Trimethacrylate | LC50 (fish, 96h): 10-100 mg/L EC50 (daphnia, 48h): 10-100 mg/L EC50 (algae, 72h): 1-10 mg/L |

Mixture classification: Not classified as hazardous to the aquatic environment. Although TMPTMA is classified as Aquatic Chronic 2, its concentration (12.5%) is below the 25% threshold required for mixture classification.

12.2 Persistence and degradability

Trimethylolpropane Trimethacrylate: Inherently biodegradable but hydrolyzes slowly in water. Not readily biodegradable (OECD 301).

12.3 Bioaccumulative potential

Low potential for bioaccumulation based on chemical structure. Log Pow estimated >3 but <4.5.

12.4 Mobility in soil

Low mobility expected due to low water solubility. Product will polymerize if released to environment.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances assessed to be PBT or vPvB.

12.6 Endocrine disrupting properties

No components identified as endocrine disruptors.

12.7 Other adverse effects

Although not classified as environmentally hazardous, avoid release to the environment as a best practice. May form polymer residues if released.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product/Packaging disposal:

- Dispose of contents/container in accordance with local/regional/national/international regulations
- Do not dispose of waste into sewer
- Waste codes should be assigned by the user based on the application for which the product was used
- Suggested waste code: 08 04 09* (waste adhesives and sealants containing organic solvents)

Contaminated packaging:

- Empty containers may contain product residue - handle with care
- Completely empty containers can be recycled or disposed of as non-hazardous waste
- Containers with residue must be disposed of as hazardous waste
- Do not reuse empty containers

SECTION 14: TRANSPORT INFORMATION

| Regulation | UN Number | Proper Shipping Name | Class | Packing Group | Environmental Hazards |
|--------------|---------------|----------------------|-------|---------------|-----------------------|
| DOT (USA) | Not regulated | Not applicable | - | - | - |
| TDG (Canada) | Not regulated | Not applicable | - | - | - |
| IMDG (Sea) | Not regulated | Not applicable | - | - | - |
| IATA (Air) | Not regulated | Not applicable | - | - | - |
| ADR/RID (EU) | Not regulated | Not applicable | - | - | - |

Regulatory Rationale: This product is not classified as dangerous goods for transport. The product does not meet the criteria for environmental hazard classification (Aquatic Chronic 2) because the concentration of environmentally hazardous components (12.5% TMPTMA) is below the 25% threshold required for mixture classification. Additionally, the product is not flammable (flash point >93°C) and contains no other transport-regulated substances.

14.7 Transport in bulk according to IMO instruments

Not applicable - product is packaged for transport in small containers.

14.8 Special precautions for transport

Although not regulated as dangerous goods, avoid exposure to extreme temperatures during transport. Keep containers upright and secure to prevent leakage.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product

United States Federal Regulations:

- **TSCA Inventory:** All components are listed on or exempt from the TSCA inventory
- **SARA 302/304:** No components subject to reporting
- **SARA 311/312 Hazards:** Acute health hazard, Chronic health hazard
- **SARA 313:** This product does not contain chemicals above de minimis levels subject to SARA 313 reporting
- **CERCLA:** No components have reportable quantities
- **California Proposition 65:** This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm

Canadian Regulations:

- **DSL/NDL Status:** All components are listed on the DSL or exempt
- **WHMIS 2015 Classification:** See Section 2 for GHS classification

European Union Regulations:

- **REACH Status:** All components are registered, pre-registered, or exempt. For Trimethylolpropane Trimethacrylate - REACH Registration Number available from manufacturer
- **CLP Regulation (EC) 1272/2008:** See Section 2 for classification
- **Restrictions (REACH Annex XVII):** None applicable
- **Authorization List (REACH Annex XIV):** No components listed

International Inventories:

| Country/Region | Inventory | Status |
|----------------|-----------|---------------------------------|
| Australia | AICS | All components listed or exempt |
| China | IECSC | All components listed |
| Japan | ENCS/ISHL | All components listed or exempt |
| Korea | KECI | All components listed |
| New Zealand | NZIoC | All components listed or exempt |

| | | |
|-------------|-------|-----------------------|
| Philippines | PICCS | All components listed |
|-------------|-------|-----------------------|

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this mixture.

SECTION 16: OTHER INFORMATION

Full text of H-statements referenced in Sections 2 and 3:

- H315: Causes skin irritation
- H317: May cause an allergic skin reaction
- H319: Causes serious eye irritation
- H335: May cause respiratory irritation (for component classification only)
- H411: Toxic to aquatic life with long lasting effects (for component classification only)
- H413: May cause long lasting harmful effects to aquatic life (for component classification only)

16.2 Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists
 ADR: European Agreement concerning International Carriage of Dangerous Goods by Road
 CAS: Chemical Abstracts Service
 CLP: Classification, Labelling and Packaging
 EC50: Effective Concentration 50%
 GHS: Globally Harmonized System
 IATA: International Air Transport Association
 IMDG: International Maritime Dangerous Goods
 LC50: Lethal Concentration 50%
 LD50: Lethal Dose 50%
 NIOSH: National Institute for Occupational Safety and Health
 NOAEL: No Observed Adverse Effect Level
 OSHA: Occupational Safety and Health Administration
 PBT: Persistent, Bioaccumulative, Toxic
 PEL: Permissible Exposure Limit
 REACH: Registration, Evaluation, Authorization and Restriction of Chemicals
 REL: Recommended Exposure Limit
 SDS: Safety Data Sheet
 STOT: Specific Target Organ Toxicity
 TLV: Threshold Limit Value
 TSCA: Toxic Substances Control Act
 UN: United Nations
 vPvB: very Persistent, very Bioaccumulative
 WHMIS: Workplace Hazardous Materials Information System

16.3 Key literature references and sources for data

- ECHA C&L Inventory Database
- ECHA Registration Dossiers
- NIOSH Pocket Guide to Chemical Hazards
- ACGIH Threshold Limit Values
- Manufacturer technical data sheets
- Scientific literature on component toxicology

16.4 Classification and procedure used to derive the classification for mixtures

The classification of this mixture is based on the calculation method outlined in CLP Regulation (EC) 1272/2008 and WHMIS 2015, using component data from ECHA registration dossiers and C&L inventory.

16.6 Training advice

Ensure all personnel handling this product receive appropriate training on:

- Hazard recognition and risk assessment
- Proper use of personal protective equipment
- Emergency procedures and first aid
- Safe handling and storage practices
- Spill response procedures
- Applicable regulatory requirements

16.7 Further information

This Safety Data Sheet contains information based on current knowledge and is intended to describe the product for safety, health, and environmental requirements. The information should not be construed as guaranteeing specific properties.

16.1 Indication of changes

This revision updates the SDS for 2025 GHS 7&8 compliance requirements including:

- Enhanced ingredient disclosure
- Updated precautionary statements
- Improved toxicological information format
- Addition of bilingual availability statement
- Enhanced emergency contact information
- Updated regulatory compliance information

Date of preparation: 26-07-2025

Date of last revision: 26-07-2025

Version: 2.0 (2025 GHS 7&8 Compliant)

Supersedes: Version 1.1 dated 16-06-2025

Prepared by: Technical Regulatory Department

Reviewed by: Product Safety Department

Legal Compliance Verification: This SDS meets Canadian WHMIS 2015, EU CLP Regulation (EC) 1272/2008, and US OSHA HCS 2012 requirements. All CAS numbers have been verified through official databases. Classifications are based on official ECHA C&L Inventory data and established scientific literature.

90-Day Update Commitment: This SDS will be reviewed and updated within 90 days of any significant new hazard, toxicological, or regulatory information becoming available that affects the classification or safe use of this product, as required by WHMIS 2015.

Disclaimer: The information in this Safety Data Sheet is based on current knowledge and national and international regulations. It is provided in good faith but no warranty, representation, or guarantee is made as to its accuracy, reliability, or completeness. This information relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. It is the responsibility of the user to ensure safe conditions for handling, storage, use, and disposal of the product.

END OF SAFETY DATA SHEET

This SDS complies with Canadian WHMIS 2015, EU CLP Regulation (EC) 1272/2008, and US OSHA HCS 2012 requirements as updated for 2025 compliance mandates.

