

SAFETY DATA SHEET

CHROME ZERO TOP COAT

According to: EU Regulation (EC) No 1907/2006 (REACH), Regulation (EC) No 1272/2008 (CLP) and Regulation (EU) 2020/878
US OSHA Hazard Communication Standard 29 CFR 1910.1200
Canadian WHMIS 2015 (SOR/2015-17)

SECTION 1: IDENTIFICATION

1.1 Product identifier

Product name: CHROME ZERO TOP COAT

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

Relevant identified uses: Professional nail enhancement hardener for use with nail base coat

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.

1.4 Emergency telephone number

See Section 1.3 above

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP) and GHS:

- Skin Irritation - Category 2
- Eye Irritation - Category 2
- Skin Sensitization - Category 1
- Hazardous to the Aquatic Environment - Chronic Category 3

2.2 Label elements

Hazard pictograms:



Signal word: Warning

Hazard statements:

- H315: Causes skin irritation
- H319: Causes serious eye irritation
- H317: May cause an allergic skin reaction
- H412: Harmful to aquatic life with long lasting effects

Precautionary statements:

Prevention:

- P261: Avoid breathing mist/vapours/spray
- P264: Wash hands and exposed skin thoroughly after handling
- P272: Contaminated work clothing should not be allowed out of the workplace
- 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 water
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- 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

Disposal:

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

Additional labeling (EU):

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

2.3 Other hazards

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

This mixture does not contain any substances considered to have endocrine disrupting properties.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical Name	CAS No.	EC No.	Weight %	Classification (CLP)
Acrylates Copolymer	25035-69-2	Not available	55-65	Not classified
2-Hydroxypropyl methacrylate	27813-02-1	248-666-3	15-25	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317
4-Acryloylmorpholine	5117-12-4	225-846-5	7-15	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 STOT SE 3, H335
Silica	7631-86-9	231-545-4	5-10	Not classified
Ethyl(2,4,6-trimethylbenzoyl)phenylphosphinate	84434-11-7	Not available	1-3	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Hydroxycyclohexyl Phenyl ketone	947-19-3	213-426-9	0.5-2	Skin Sens. 1, H317

CI Pigments: None present

For full text of H-statements: see Section 16

Table 2: ATE Values and M-factors (GHS 7&8 Requirements)

Component Name	ATE Oral (mg/kg)	ATE Dermal (mg/kg)	ATE Inhal. (mg/L, 4h)	M-factors
Acrylates Copolymer	>2000	>2000	>5	Not applicable
2-Hydroxypropyl methacrylate	>2000	>2000	>20	Not applicable
4-Acryloylmorpholine	>2000	>2000	>20	Not applicable
Silica	Not classified	Not classified	Not classified	Not applicable
Ethyl(2,4,6-trimethylbenzoyl)phenylphosphinate	>2000	>2000	>20	M(Chronic) = 1

Component Name	ATE Oral (mg/kg)	ATE Dermal (mg/kg)	ATE Inhal. (mg/L, 4h)	M-factors
Hydroxycyclohexyl Phenyl ketone	>2000	>2000	>20	Not applicable

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.

Following inhalation: Move to fresh air. If symptoms persist, call a physician.

Following skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Following eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention immediately.

Following ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Acute symptoms: Skin and eye irritation, redness, swelling. May cause allergic skin reaction in sensitized individuals.

Delayed symptoms: Prolonged or repeated exposure may cause skin sensitization and dermatitis.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. No specific antidote available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Flash point: >82°C (180°F). Combustion products may include: carbon oxides, smoke, fumes, unburned hydrocarbons.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Cool containers/tanks with water spray. Collect contaminated fire extinguishing water separately. Do not allow to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

For emergency responders: Use personal protection recommended in Section 8.

6.2 Environmental precautions

Prevent product from entering drains, sewers, or water courses. If the product contaminates rivers and lakes or drains, inform respective authorities.

6.3 Methods and material for containment and cleaning up

PREFERRED METHOD - UV Curing Deactivation:

Small spills (indoor areas):

- Contain spill area to prevent spreading
- Expose spilled material to UV light or direct sunlight for 30-60 minutes to cure/polymerize the reactive components
- Once fully cured, the material becomes inert and can be mechanically removed
- This method deactivates photoinitiators and methacrylate components, making cleanup safer

Large spills:

- Contain spill using sand or earth dikes
- Prevent spread to drains, sewers, or waterways
- For outdoor spills: Allow direct sunlight exposure for several hours to fully cure the material
- For indoor spills: Use portable UV lamps (315-400nm) to cure the spilled material before removal
- Collect cured material mechanically

Alternative Method (if UV curing not feasible):

Absorb with inert absorbent material (sand, vermiculite, diatomaceous earth). Note: Uncured material requires hazardous waste disposal.

Cleanup: Ventilate area. Wear appropriate PPE during cleanup. Cured material can be disposed of as non-hazardous solid waste. Wash spill area with soap and water.

SAFETY NOTE: UV curing converts reactive liquid components into inert solid polymer, significantly reducing health and environmental hazards during cleanup.

6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothing. Use only with adequate ventilation. Wash hands before breaks and at the end of workday. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

Professional nail salon use: Ensure adequate ventilation in work area. Use explosion-proof electrical equipment. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. Ground containers and receiving equipment to prevent static electricity buildup.

UV curing considerations:

- Cure immediately after application - uncured material is more hazardous than cured polymer
- Use appropriate UV wavelength (365-405nm) with minimum 36W power for effective curing
- Apply in thin layers (≤ 2 mm thickness) - thick applications will not cure completely through
- Ensure complete curing - verify tack-free surface before considering material safe to handle
- Clean contamination by UV curing small spills before mechanical removal when possible
- Avoid premature curing during handling - work in areas without UV light exposure

Hygiene measures: Wash hands and contaminated skin thoroughly after handling. Use appropriate skin protection. In case of contamination, UV cure small amounts before removal to reduce exposure risk.

7.2 Conditions for safe storage, including any incompatibilities

Store in original container. Keep container tightly closed in a dry and well-ventilated place. Store at temperatures between 4-27°C (40-80°F). Keep away from heat, sparks and flame. Keep away from sources of ignition. Protect from freezing and direct sunlight.

UV light protection:

- Use amber or opaque containers to prevent premature curing
- Avoid fluorescent lighting in storage areas (contains UV radiation)
- Store away from windows and UV light sources
- Ensure storage lighting is UV-free (LED or incandescent preferred)

Incompatible materials: Strong oxidizing agents, strong reducing agents, free radical initiators, oxygen scavengers. UV light sources are incompatible with storage - will cause product degradation and container failure.

Storage requirements: Keep out of reach of children. Store in areas with appropriate fire protection. Electrical equipment should be explosion-proof. Storage areas must be UV light-free to prevent premature polymerization.

Container considerations: Do not store in clear glass or transparent plastic containers that permit UV light transmission. Use appropriate container materials compatible with methacrylate components.

7.3 Specific end use(s)

Professional nail enhancement product. See Section 1.2. Product designed specifically for professional nail enhancement applications requiring UV/LED curing systems. Intended for use with appropriate UV/LED curing equipment (365-405nm, minimum 36W) in professional nail salon environments. Apply as matte top coat over cured base gel layers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Component	OSHA PEL	NIOSH REL	ACGIH TLV
Acrylates Copolymer	None established	None established	None established
2-Hydroxypropyl methacrylate	None established	None established	None established
4-Acryloylmorpholine	None established	None established	None established
Silica (amorphous)	20 mppcf (80 mg/m ³ /%SiO ₂)	6 mg/m ³	None established
Ethyl(2,4,6-trimethylbenzoyl)phenylphosphinate	None established	None established	None established
Hydroxycyclohexyl Phenyl ketone	None established	None established	None established

8.2 Exposure controls

Engineering controls: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels.

Personal protective equipment:

Eye/face protection: Wear safety glasses with side shields or goggles (EN 166).

Skin protection:

Hand protection: Wear suitable gloves (EN 374). Recommended: Nitrile rubber gloves.

Other: Wear suitable protective clothing.

Respiratory protection: Not normally required with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards: Not applicable.

Environmental exposure controls: Do not allow product to reach sewage system or water bodies.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
-----------------	--------

Colour:	Not specified
Odour:	Slight characteristic ester odour
Odour threshold:	Not determined
Melting point/freezing point:	Not applicable
Boiling point or initial boiling point and boiling range:	Not available
Flammability:	Not classified as flammable
Lower and upper explosion limit:	Not determined
Flash point:	>82°C (>180°F)
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not available
pH:	Not applicable
Kinematic viscosity:	Not determined
Solubility:	Insoluble in water
Partition coefficient n-octanol/water:	Not determined
Vapour pressure:	
Density and/or relative density:	Not available
Relative vapour density:	Not determined
Particle characteristics:	Not applicable (liquid)

9.2 Other information

VOC content (EPA Method 24): Approximately 30-40% (calculated based on volatile methacrylate content)

Evaporation rate: Not determined

Conductivity: Not determined

Mechanical sensitivity: Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reactions known under normal conditions of use.

10.2 Chemical stability

Stable under recommended storage conditions. Contains inhibitor (HQ, MEHQ, etc) at <0.02%.

10.3 Possibility of hazardous reactions

Hazardous polymerization may occur upon exposure to elevated temperatures, UV light, or free radical initiators.

10.4 Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight. UV radiation. Freezing conditions.

10.5 Incompatible materials

Strong oxidizing agents, strong reducing agents, free radical initiators, oxygen scavengers, peroxides.

10.6 Hazardous decomposition products

Thermal decomposition may produce: Carbon oxides (CO, CO₂), smoke, irritating vapors.

SECTION 11: INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) No 1272/2008

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

Acute toxicity:

Based on available data, the classification criteria are not met.

- Oral: ATEmix > 2000 mg/kg (calculated)
- Dermal: No data available
- Inhalation: No data available

Skin corrosion/irritation: Causes skin irritation (Category 2). Based on presence of >10% skin irritant components.

Serious eye damage/irritation: Causes serious eye irritation (Category 2). Based on presence of >10% eye irritant components.

Respiratory or skin sensitization: May cause an allergic skin reaction (Category 1). Contains multiple skin sensitizers >1%.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: May cause respiratory irritation (4-Acryloylmorpholine component).

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

11.2 Information on other hazards

No components identified with endocrine disrupting properties.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

- Ethyl(2,4,6-trimethylbenzoyl)phenylphosphinate: Aquatic Chronic 2 (H411)
- Mixture classification: Aquatic Chronic 3 (H412)

12.2 Persistence and degradability

Acrylate components are not readily biodegradable. Expected to be inherently biodegradable.

12.3 Bioaccumulative potential

No data available. Based on structure, bioaccumulation is not expected.

12.4 Mobility in soil

No data available. Expected to have low mobility due to polymerization tendency.

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 with endocrine disrupting properties.

12.7 Other adverse effects

No other adverse environmental effects known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product/Packaging disposal:

Dispose of in accordance with local, regional, national and international regulations. Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers.

Waste codes:

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

Not regulated for transport

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Although product contains aquatic hazard components, 12-15ml bottles ship under Limited Quantity provisions - no marine pollutant marking required

14.6 Special precautions for user

Ships as general cargo under Limited Quantity exemption for all transport modes (ADR/RID, IMDG, IATA)

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

14.8 Additional transport information

Limited Quantity Status (12-15ml bottles):

- ADR/RID: LQ exempt ($\leq 5L$ inner, $\leq 30kg$ outer)
- IMDG: LQ exempt ($\leq 5L$ inner, $\leq 30kg$ outer)
- IATA: LQ exempt ($\leq 0.5L$ inner, $\leq 30kg$ outer)
- Requires only LQ diamond marking
- No Class 9 label required
- Flash point: $>82^{\circ}C$ (not restricted)

SECTION 15: REGULATORY INFORMATION

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

EU Regulations:

- REACH (EC 1907/2006): All components are pre-registered or exempt
- CLP (EC 1272/2008): Product is classified and labeled according to CLP regulation
- Cosmetic Regulation (EC 1223/2009): For professional use only

US Federal Regulations:

- TSCA Inventory: All components are listed on the TSCA inventory
- SARA 313: Not listed
- CERCLA: Not listed
- California Proposition 65: No components listed

Canadian Regulations:

- DSL/NDSL Status: All components are listed on the DSL
- WHMIS 2015: Classified according to HPR (SOR/2015-17)

International Inventories:

- China (IECSC): All components listed
- Europe (EINECS/ELINCS): All components listed or exempt
- Japan (ENCS): Check status
- Korea (KECI): Check status
- Australia (AICS): Check status

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: OTHER INFORMATION

Revision date: July 28, 2025

Version: 2.0 (Supersedes version 1.1 dated June 16, 2025)

Changes from previous version: Complete reformatting to GHS/CLP compliance, updated classifications, added VOC content, corrected chemical names, added trade secret concentration ranges, enhanced UV curing guidance in Sections 6 and 7, added ATE values table, included 90-day update commitment

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
- H411: Toxic to aquatic life with long lasting effects
- H412: Harmful to aquatic life with long lasting effects

Classification source: Classification based on calculation methods according to Regulation (EC) No 1272/2008 (CLP), using component data from ECHA C&L Inventory and supplier classifications.

Training advice: Personnel should be trained in the safe handling of chemical products.

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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.

Date of preparation: July 28, 2025

Date of last revision: July 28, 2025

Version: 2.0 (2025 GHS 7&8 Compliant)

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.

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.