Arch Rival Nails

SAFETY DATA SHEET

ARCH RIVAL PREP

Revision Date: 29-July-2025

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

ARCH RIVAL PREP

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], WHMIS 2015, and OSHA HCS 2012:

- Flammable Liquid, Category 3 (H226)
- Eye Irritation, Category 2 (H319)
- Specific Target Organ Toxicity - Single Exposure, Category 3 (H336)

2.2 Label elements

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

Signal word: Warning

Hazard statements:

- H226: Flammable liquid and vapour
- H319: Causes serious eye irritation
- H336: May cause drowsiness or dizziness

Precautionary statements:

Prevention:

- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- P233: Keep container tightly closed
- P240: Ground and bond container and receiving equipment
- P241: Use explosion-proof electrical/ventilating/lighting equipment
- P242: Use non-sparking tools
- P243: Take action to prevent static discharges
- P261: Avoid breathing vapours/spray
- P264: Wash hands thoroughly after handling
- P271: Use only outdoors or in a well-ventilated area
- P280: Wear protective gloves/eye protection/face protection

Response:

- P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
- 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/doctor if you feel unwell
- P337+P313: If eye irritation persists: Get medical advice/attention
- P370+P378: In case of fire: Use alcohol-resistant foam, dry chemical, CO2 to extinguish

Storage:

- P403+P233: Store in a well-ventilated place. Keep container tightly closed
- P403+P235: Store in a well-ventilated place. Keep cool
- 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 product does not contain components which are considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Endocrine Disrupting Properties: Based on available data, this product is not classified as having endocrine disrupting properties.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture meeting the criteria for classification in accordance with Regulation (EC) No. 1272/2008, WHMIS 2015, and OSHA HCS 2012.

Component Name	CAS No.	Classification (CLP/GHS)	Conc. (% w/w)
Ethyl Acetate	141-78-6	Flam. Liq. 2 (H225); Eye Irrit. 2 (H319); STOT SE 3 (H336)	90-95
3-Methacryloxypropyltrimethoxysilane	2530-85-0	Not classified	5-10

The exact percentages (concentrations) of composition have been withheld as trade secrets in accordance with applicable regulations: 29 CFR 1910.1200(i) (USA), WHMIS 2015 Section 5.11 (Canada), and CLP Regulation (EC) 1272/2008 Article 11 (EU).

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

Following inhalation: Remove person to fresh air immediately. Keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a poison center or doctor if you feel unwell.

Following skin contact: Remove contaminated clothing immediately. Wash skin thoroughly with soap and water for at least 15 minutes. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing before reuse.

Following eye contact: Rinse immediately with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Following ingestion: Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

Protection of first aider: Use appropriate personal protective equipment to avoid exposure during rescue. Ensure adequate ventilation when providing first aid.

4.2 Most important symptoms and effects

Immediate symptoms:

- Eyes: Irritation, redness, tearing
- Skin: Defatting, dryness, irritation
- Respiratory: Irritation of nose and throat, drowsiness, dizziness
- Central nervous system: Headache, dizziness, drowsiness

Delayed effects:

- Repeated skin exposure may cause dryness or cracking
- Prolonged exposure to vapors may cause central nervous system effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. For large exposures, consider monitoring for respiratory depression and central nervous system effects. Contact national poison center for additional treatment advice: Canada 1-844-POISON-X.

Section 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, dry chemical powder, carbon dioxide (CO_2), water spray/mist

Unsuitable extinguishing media: High pressure water jet (may spread fire)

5.2 Special hazards arising from the substance or mixture

Combustion products: Thermal decomposition may produce toxic gases including carbon monoxide, carbon dioxide, and organic fragments.

Specific hazards: Highly flammable liquid and vapor. Vapors may form explosive mixtures with air. Vapors are heavier than air and may travel along the ground to distant ignition sources. Containers may rupture when heated.

5.3 Advice for firefighters

Protective equipment: Firefighters should wear self-contained breathing apparatus (SCBA) with full face mask and full protective clothing.

Special firefighting procedures: Cool fire-exposed containers with water spray. Remove containers from fire area if safe to do so. Use water spray to disperse vapors. Collect contaminated fire water separately - do not allow to enter drains or waterways.

5.4 Other information

Flash point: -4°C (25°F). Fire may produce irritating, corrosive and/or toxic gases.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Evacuate area. Eliminate all ignition sources. Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing. Do not breathe vapors. Use personal protective equipment (see Section 8).

For emergency responders: Use appropriate personal protective equipment including respiratory protection. Approach spill from upwind direction. Stop leak if safe to do so.

6.2 Environmental precautions

Prevent entry into waterways, sewers, basements, or confined areas. Notify authorities if product enters waterways or sewers.

6.3 Methods and material for containment and cleaning up

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

Large spills: Dike far ahead of spill for later disposal. Prevent spread to drains, sewers, or waterways. Use foam to suppress vapors. Absorb with inert material. Collect in appropriate containers for disposal.

Cleanup: Ventilate area after cleanup is complete. Dispose of contaminated materials as hazardous waste.

6.4 Reference to other sections

See Section 8 for exposure controls and personal protection. See Section 13 for disposal considerations.

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

General handling: Use only in well-ventilated areas. Ground and bond containers when transferring material. Use explosion-proof equipment. Use non-sparking tools. Take precautionary measures against static discharge. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Professional nail salon use: Ensure adequate ventilation in work area. Keep containers closed when not in use. Avoid breathing vapors. Wash hands thoroughly after handling.

Hygiene measures: Do not eat, drink or smoke when using this product. Wash hands and contaminated skin thoroughly after handling. Remove contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, dry, well-ventilated area away from heat and ignition sources. Keep containers tightly closed. Store below 30°C (86°F). Keep away from direct sunlight.

Incompatible materials: Strong oxidizing agents, strong acids, strong bases, alkali metals, nitrates.

Storage requirements: Store in original container. Keep out of reach of children. Store in areas with appropriate fire protection. Electrical equipment should be explosion-proof.

7.3 Specific end use(s)

See Section 1.2. Product designed specifically for professional nail enhancement surface preparation.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits:

Substance	Country	Type	Value	Notes
Ethyl Acetate	USA (OSHA)	PEL	400 ppm (1400 mg/m³)	8-hour TWA
	USA (NIOSH)	REL	400 ppm (1400 mg/m³)	10-hour TWA
	Canada	OEL	400 ppm (1440 mg/m³)	8-hour TWA
3-Methacryloxypropyltrimethoxysilane	All	-	None established	-

Derived No-Effect Level (DNEL): Not established for this mixture.

Predicted No-Effect Concentration (PNEC): Not established for this mixture.

8.2 Exposure controls

Engineering controls: Use adequate general and local exhaust ventilation to maintain airborne concentrations below exposure limits. Use explosion-proof electrical equipment in areas where vapor may be present.

Personal protective equipment:

- **Respiratory protection:** Not normally required with adequate ventilation. If exposure limits may be exceeded, use NIOSH/MSHA approved organic vapor respirator.
- **Hand protection:** Wear chemical-resistant gloves (nitrile rubber, neoprene). Replace regularly.
- **Eye/face protection:** Wear safety glasses with side shields or chemical goggles.
- **Skin protection:** Wear appropriate clothing to prevent skin contact. Use chemical-resistant apron when handling large quantities.

Environmental exposure controls: Prevent release to environment. Use appropriate containment to avoid environmental contamination.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Enhanced Properties (GHS 7&8 Compliance):

Property	Value
Appearance	Clear liquid
Color	Colorless

Odor	Fruity, characteristic of ethyl acetate
Odor threshold	50 ppm
pH	Not applicable (non-aqueous)
Melting point/freezing point	-83.6°C (-118.5°F)
Initial boiling point/range	77.1°C (170.8°F) at 1013 hPa
Flash point	-4°C (25°F) (Closed cup)
Evaporation rate	5.6 (Butyl acetate = 1)
Flammability	Flammable liquid
Upper/lower flammability limits	LEL: 2.0% / UEL: 11.5%
Vapor pressure	97 hPa at 20°C
Vapor density	3.04 (Air = 1)
Relative density	0.900-0.905 g/cm³ at 20°C
Solubility(ies)	Water: 80 g/L at 25°C; Soluble in organic solvents
Partition coefficient (n-octanol/water)	Log Kow: 0.73
Auto-ignition temperature	427°C (800°F)
Decomposition temperature	Not determined
Viscosity	0.45 mPa·s at 20°C
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing
VOC Content	90-95% by weight (calculated per EPA Method 24)

Additional Physical Properties:

- Particle characteristics: Not applicable (liquid)
- Mechanical sensitivity: Not mechanically sensitive
- Conductivity: Low conductivity
- Surface tension: Approximately 23.7 mN/m at 20°C

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions. No dangerous reactions known under normal conditions of use.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Vapors may form explosive mixtures with air. May react violently with strong oxidizing agents.

10.4 Conditions to avoid

Heat, sparks, open flames, hot surfaces, static electricity. Temperatures above 40°C.

10.5 Incompatible materials

Strong oxidizing agents, strong acids, strong bases, alkali metals, nitrates, peroxides.

10.6 Hazardous decomposition products

Under fire conditions: Carbon monoxide, carbon dioxide, acetic acid vapors.

Section 11: TOXICOLOGICAL INFORMATION

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

11.1 Information on toxicological effects

Acute Toxicity:

Component	Route	Value	Species
Ethyl Acetate	Oral	LD50 = 5620 mg/kg	Rat
	Dermal	LD50 > 18000 mg/kg	Rabbit
	Inhalation	LC50 = 1600 mg/L (4h)	Rat

Skin corrosion/irritation: May cause mild skin irritation. Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation: Causes serious eye irritation. Based on classification of ethyl acetate.

Respiratory or skin sensitization: Not classified as a skin or respiratory sensitizer.

Germ cell mutagenicity: Not classified. No data indicates mutagenic potential.

Carcinogenicity: Not classified. This product does not contain known human carcinogens above classification thresholds.

Reproductive toxicity: Not classified. No data indicates reproductive toxicity.

STOT-single exposure: Category 3 - May cause drowsiness or dizziness. Affects central nervous system.

STOT-repeated exposure: Not classified. No evidence of target organ toxicity with repeated exposure.

Aspiration hazard: Not classified. Viscosity above classification threshold.

Likely route(s) of exposure: Inhalation and dermal contact are the most likely routes during professional use.

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic Toxicity - Ethyl Acetate:

Organism	Test	Value
Fish (Pimephales promelas)	LC50 (96h)	230 mg/L
Daphnia magna	EC50 (48h)	164 mg/L
Algae	EC50 (72h)	3300 mg/L

12.2 Persistence and degradability

Biodegradation: Ethyl acetate is readily biodegradable (>70% in 28 days). Expected to degrade rapidly in the environment.

12.3 Bioaccumulative potential

Low bioaccumulation potential. Log Kow = 0.73 indicates low potential for bioaccumulation.

12.4 Mobility in soil

Expected to have high mobility in soil due to low log Koc. May volatilize from soil surfaces.

12.5 Results of PBT and vPvB assessment

This product does not contain components considered to be PBT or vPvB at levels ≥0.1%.

12.6 Endocrine disrupting properties

Based on available data, this product is not classified as having endocrine disrupting properties.

12.7 Other adverse effects

None known.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product disposal: Dispose as hazardous waste in accordance with local, regional, and national regulations. Do not dispose in regular trash or pour down drains. Consider recovery or recycling where possible.

Canada-specific requirements: Classified as hazardous waste under provincial environmental regulations. Consult provincial waste management authority for specific disposal requirements.

EU-specific requirements: Waste code assignment should consider actual composition and local regulations. Typical waste codes may include 14 06 03* (other solvents and solvent mixtures).

US-specific requirements: May be subject to RCRA regulations. D001 waste code (ignitable). Consult 40 CFR 261 for determination.

Container disposal: Empty containers may contain product residue. Dispose of empty containers as hazardous waste unless properly cleaned.

Special precautions: Ensure waste disposal complies with applicable environmental regulations. Avoid release to environment during disposal operations.

Section 14: TRANSPORT INFORMATION

14.1 UN number

UN1173

14.2 UN proper shipping name

ETHYL ACETATE

14.3 Transport hazard class(es)

3 (Flammable liquids)

14.4 Packing group

II

14.5 Environmental hazards

Not classified as environmentally hazardous

14.6 Special precautions for user

Handle according to good industrial hygiene practices. Ensure packages are properly sealed and labeled.

Limited Quantity Exception for 12-15mL bottles:
When shipped in individual bottles of 12-15 mL and packaged in accordance with Limited Quantity provisions:
• ADR 3.4: Max 1L per inner packaging, 30 kg gross per package
• IMDG 3.4: Max 1L per inner packaging, 30 kg gross per package
• IATA 2.7: Max 0.5L (500mL) per inner packaging, 30 kg gross per package

12-15mL bottles qualify for Limited Quantity exemptions under all transport modes. LQ marking required, Class 3 label not required on outer package.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable - Product not shipped in bulk.

Section 15: REGULATORY INFORMATION

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

CANADIAN REGULATIONS:

WHMIS 2015 Classification:

- Flammable Liquid, Category 3
- Eye Irritation, Category 2
- STOT Single Exposure, Category 3

Canadian Environmental Protection Act (CEPA): All components are listed on or exempt from the Domestic Substances List (DSL).

UNITED STATES REGULATIONS:

OSHA Hazard Communication Standard (29 CFR 1910.1200):

- Flammable Liquid, Category 3
- Eye Irritation, Category 2
- STOT Single Exposure, Category 3

TSCA Status: All components are listed on the TSCA Inventory.

California Proposition 65: This product does not contain chemicals known to the State of California to cause cancer or reproductive toxicity above notification thresholds.

SARA Section 313: Ethyl acetate is subject to reporting requirements (de minimis concentration 1.0%).

EUROPEAN UNION REGULATIONS:

CLP Regulation (EC) No 1272/2008:

- Flammable Liquid, Category 3 (H226)
- Eye Irritation, Category 2 (H319)
- STOT Single Exposure, Category 3 (H336)

REACH Regulation (EC) No 1907/2006: All components are registered or covered by registrations. No authorization required under Annex XIV. No restrictions under Annex XVII apply.

15.2 Chemical safety assessment

A chemical safety assessment has been carried out for ethyl acetate under REACH. No additional assessment required for this mixture.

15.3 Other regulatory information

International regulations:

- Australia: Components listed on AIIC
- Japan: Components listed on ENCS
- South Korea: Components listed on K-REACH

Section 16: OTHER INFORMATION

16.1 Indication of changes

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

- Complete 16-section format implementation
- Enhanced toxicological and ecological data
- VOC content addition
- Limited Quantity transport provisions
- Bilingual availability statement
- Updated regulatory compliance information

16.2 Abbreviations and acronyms

- ACGIH: American Conference of Governmental Industrial Hygienists
- CLP: Classification, Labelling and Packaging
- EC50: Effective Concentration 50%
- GHS: Globally Harmonized System
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- NIOSH: National Institute for Occupational Safety and Health
- OEL: Occupational Exposure Limit
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit
- STOT: Specific Target Organ Toxicity
- TWA: Time Weighted Average
- VOC: Volatile Organic Compound
- WHMIS: Workplace Hazardous Materials Information System

16.3 Key literature references and sources for data

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

16.4 Classification and procedure used to derive the classification for mixtures

Classification derived using calculation methods according to CLP Regulation Annex I based on component classifications and concentration limits.

16.5 Full text of hazard statements referred to in Sections 2 and 3:

- H225: Highly flammable liquid and vapour
- H226: Flammable liquid and vapour
- H319: Causes serious eye irritation
- H336: May cause drowsiness or dizziness

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
- Fire prevention measures
- Applicable regulatory requirements

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: 29-July-2025
Date of last revision: 29-July-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.