

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)
BEVA Isolating Varnish

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Distributor's name Museum Services Corporation	Emergency Telephone Number 651-450-8954
Address (Number, Street, City, State and ZIP Code) 385 Bridgepoint Way South Saint Paul, MN 55075	Telephone Number for Information 651-450-8954
	Date Prepared 01/31/2020
	Signature of Preparer (optional)

Section II—Hazardous Identification

Hazard classification

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Flammable liquids - Category 1

Serious eye damage - Category 2

Reproductive toxicity - Category 2

Specific target organ toxicity - single exposure - Category 3

Label elements

Hazard pictograms



Signal word: **DANGER!**

Hazards

Extremely flammable liquid and vapour.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Suspected of damaging the unborn child.

Precautionary statements

Prevention

Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.

Store in a well ventilated place. Keep cool.

Response

IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

IF exposed or concerned: Get medical advice/ attention. Do NOT induce vomiting.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage

Store in a well-ventilated place. Keep cool.

Store locked up.

Disposal

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

no data available

Section III—Composition/Information on Ingredients

Chemical characterization: PVA resins in volatile aromatic solvents

Component	CASRN	Concentration	
Ethanol	64-17-5	70%	
Toluene	108-88-3	10%	
(1-Methoxy-2-propyl)-acetate	108-65-6	10%	
Acetone	67-64-1	5-10%	

Section IV—First Aid Measures**Description of first aid measures**

General Information: Take person away from hazardous area. Give artificial respiration in case breathing is not regular or if it has stopped.

Remove contaminated clothes immediately. Intoxication symptoms may occur after several hours, therefore a 48 hour medical observation is necessary.

Inhalation: Move to fresh air. Give artificial respiration if breathing has stopped. In case of unconsciousness place patient stable in side position for transportation. Consult a physician.

Skin contact: Remove contaminated clothing. Wash off with soap and plenty of water. If symptoms persist, call a physician.

Eye contact: Rinse with plenty of water. If eye irritation persists, consult a specialist.

Ingestion: Do NOT induce vomiting. Rinse mouth with water and give plenty of water to drink. IMMEDIATELY see a physician. If vomiting occurs spontaneously, keep airway clear. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: No information available.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically.

Section V—Fire and Explosion Hazard Data

Extinguishing Media - Water mist, extinguishing powder, foam, carbon dioxide. Never apply a strong water jet.

Special Fire Fighting Procedures – Highly flammable. Fumes can form an explosive mixture with air. In case of fire: formation of carbon monoxide.

Advice for firefighters (Fire Fighting Procedures): Cool closed containers exposed to fire with water mist. Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus and full protective gear.

Section VI—Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations. If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow.

Environmental precautions: Prevent contamination of soils, drains and surface water. Contact local authorities if product pollutes soil or vegetation.

Methods and materials for containment and cleaning up: Contain with non-flammable absorbent material (e.g. sand, diatomaceous earth, vermiculite) and dispose accordingly. Ensure adequate ventilation. This product and its container must be disposed as hazardous waste.

Section VII—Handling and Storage

Precautions for safe handling: The usual precautionary measures are to be adhered to when handling chemicals. Provide adequate ventilation. Keep containers tightly closed. Avoid contact with eyes and skin. A nearby eyewash facility should be available for emergencies.

Hygienic Measures: Take off contaminated clothing immediately. Do not inhale gas/fumes/vapors/aerosols. Avoid contact with eyes and skin. Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Conditions for safe storage: Store in tightly sealed containers in a cool and well ventilated location.

Keep away from flammable materials. Do not store together with strong acids and oxidants. Protect against heat. Store in a room with a solvent-proof floor. Suitable container material: stainless steel.

Information on fire and explosion protection: Keep away from sources of ignition - do not smoke. Take measures to prevent electrostatic discharge. Use only explosion protected devices. Combustible liquid. Vapors may form an explosive mixture with air. Vapor is heavier than air and spreads along the ground.

Section VIII—Exposure Control /Personal Protection

Respiratory Protection (*Specify Type*) Required in case of insufficient ventilation (EN 143 or 149). Recommended: composite filter A-P2 (EN 141)

Engineering Controls: Adequate ventilation to control airborne concentrations below the exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility.

Protective measures: Avoid contact with eyes and skin. Remove contaminated clothing immediately. Do not inhale gas/fumes/vapor/aerosol. Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Protective Gloves: Each work area must have adequate protective gloves. The manufacturer's directions for use should be observed because of the great diversity of types.

Eye Protection: Safety glasses with protective shields (EN 166).

Section IX—Physical and Chemical Properties

Appearance

Form: liquid

Color: colorless

Odor: alcohol-like

Odor threshold: not determined

pH-Value: not applicable

Melting temperature: not determined

Boiling temperature: not determined

Flash point: ca. 12°C

Evaporation rate: No information available.

Flammability (solid, gas): flammable

Upper explosion limit: no information available

Lower explosion limit: no information available

Vapor pressure: not determined

Vapor density: No information available.

Density: not determined

Solubility in water: insoluble

Coefficient of variation (nOctanol/Water): no information available

Auto-ignition temperature: No information available.

Decomposition temperature: No data available.

Viscosity, dynamic: Not determined.

Explosive properties: Product is not explosive; however, an explosive vapor/air mixture can be formed.

Oxidizing properties: No information available.

Section X—Stability and Reactivity

Stability and Reactivity

Reactivity - No information available.

Chemical Stability - No decomposition if used according to specifications.

Possibility of Hazardous Reactions - Reacts with strong acids and oxidizing agents.

Conditions to avoid - Avoid contact with heat, sparks and open fire.

Thermal decomposition - No data available.

Incompatible Materials - Strong acids and strong oxidizing agents.

Hazardous Decomposition Products - Carbon oxides

Section XI—Toxicological Information

Toxicological information appears in this section when such data is available.

Acute Toxicity

LD50, oral: Ethanol (CAS 64-17-5): 2000 mg/kg (rat; OECD 401)

Acetone (67-64-1): 5800 mg/kg (rat, OECD 401)

LD50, dermal: Ethanol (CAS 64-17-5): > 2000 mg/kg (rabbit; OECD 402)

Acetone (67-64-1): > 15800 mg/kg (rabbit)

LC50, inhalation: Ethanol (64-17-5): > 20 mg/kg (4h, rat)

Acetone (67-64-1): 76 mg/kg (4h; rat)

Primary effects

Irritant effect on skin: Ethanol (64-17-5): no skin irritation (OECD 404)

Toluene (108-88-3): irritating (rabbit)

Acetone (67-64-1): non irritating (guinea pig)

(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6): non irritating (rabbit; OECD 404)

Irritant effect on eyes: Ethanol (64-17-5): can irritate eyes (OECD 405)

Toluene (108-88-3): slightly irritating (rabbit)

Acetone (67-64-1): irritating (rabbit)

(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6): non-irritating to eyes (rabbit; OECD 405)

Inhalation: No information available.

Ingestion: No information available

Sensitization: Toluene: no sensitizing effects observed (rat)

Acetone: no sensitizing effects observed (guinea pig; OECD 406)

(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6): not sensitizing (guinea pig; OECD 406)

Mutagenicity: (2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6): Ames-Test negative (Salmonella typhimurium; OECD 471)

Reproductive toxicity: No relevant data found.

Carcinogenicity: No relevant data found.

Teratogenicity: No information available.

Specific target organ toxicity (STOT): No relevant data found.

Additional toxicological information: No information available.

Handle in accordance with good industrial hygiene and safety practice.

Section XII—Ecological Information

Ecotoxicological information appears in this section when such data is available.

Aquatic Toxicity

Acute toxicity to fish - Ethanol: LC50: 15300 mg/l (96h, Pimephales promelas); 11200 mg/l (24h, Salmo gairdneri)

Toluene: LC50: 24 mg/l (96h, Oncorhynchus mykiss)

Acetone: LC50: 5540 mg/l (96h, Oncorhynchus mykiss) LC50: 11000 mg/l (96h; Alburnus alburnus)

(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6): LC50: 100 180mg/l(96h, Salmogairdnerii; OECD 203i); 63.5 mg/l(14d,

Oryziaslatipes; OECD 204)

Daphnia toxicity - Ethanol: EC50: 858 mg/l (24h, Artemia salina; OECD 202); EC50:> 10000 mg/l (48h, Daphnia magna); LC50: 5012 mg/l (48h, Ceriodaphnia Dubia)

Toluene: EC50: 11.5 mg/l (48h, Daphnia magna)

Acetone: LC50: 8800 mg/l (48h, Daphnia magna) NOEC: 2212 mg/l (28d; Daphnia pulex)

(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6): EC50: 373 mg/l (48h, Daphnia magna; OECD 202); NOEC: > 100 mg/l (21d;

OECD 211)

Bacteria toxicity - Ethanol: EC50: 5800 mg/l (4h; Paramecium caudatum)
Toluene: NOEC: 29 mg/l (16h; Pseudomonas putida)
Acetone: NOEC: 1000 mg/l (0.5h; active sludge; OECD 209)
(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6): EC10: >1000 mg/l (30 min, active sludge; OECD 209)

Algae toxicity - Ethanol: EC50: 275 mg/l (3d, Chlorella vulgaris; OECD 201); EC10: 11.5 mg/l (3d, Chlorella vulgaris; OECD 201)
Toluene: IC50: 12 mg/l (72h, Selenastrum capricornutum)
Acetone: NOEC: 430 mg/l (96h)
(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6): EC50: > 1000 mg/l (96h, Pseudokirchneriella subcapitata; OECD 201)

Persistence and degradability - Ethanol: readily biodegradable (84 %, 20d).
Toluene: 86 % (20d); leicht biologisch abbaubar
Acetone: 91 % (28d); readily biodegradable (OECD 301B)
(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6): 83 % (28d), readily biodegradable (OECD 301F); 100 % (8d), readily eliminable (OECD 302B)

Bioaccumulative potential - Ethanol: log Kow -0.3, BCF 0.66. No bioaccumulation.
Toluene: no accumulation
Acetone: Bioconcentration factor (BCF): < 10. No bioaccumulation.
(2-Methoxy-1-methyl-ethyl)-acetate (CAS 108-65-6): no accumulation expected (log POW 0.56)**Mobility:** No relevant data found.

Mobility - Ethanol: the product is mobile in aqueous environment. Not expected to adsorb on soil.
Toluene: Product floats on water.
Acetone: Product is readily volatile.

Results of PBT- und vPvP Assessment - Ethanol: This substance is not classified as PBT (persistent, bioaccumulative, toxic), nor as vPvB (very persistent, very bioaccumulative).
Acetone: This substance is not classified as PBT (persistent, bioaccumulative, toxic), nor as vPvB (very persistent, very bioaccumulative).

Other Adverse Effects

Water hazard class: Do not let product contaminate ground water, waterways or sewage system.

Section XIII—Disposal Considerations

Disposal methods: In accordance with current regulations, product may be taken to an incineration plant.

Contaminated packaging: Uncontaminated packaging may be recycled. Completely empty packaging can be disposed of with the regular waste. Do not puncture, cut or weld uncleaned drums. Risk of explosion. Packaging may be disposed of in the same manner as the product.

Section XIV—Transport Information

DOT

Proper shipping name Resin solution, flammable

UN number UN 1865

Class 3

Packing group III

Classification for SEA transport (IMO-IMDG):

Proper shipping name Resin solution, flammable

UN number UN 1865

Class 3

Packing group III

Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code

Consult IMO regulations before transporting ocean bulk

Classification for AIR transport (IATA/ICAO):

Proper shipping name Resin solution, flammable

UN number UN 1865

Class 3

Packing group III

Labelling according 5.2.1.8 ADR/RID: no

Labelling according 5.2.1.6.3 IMDG: no

Classification as environmentally hazardous according 2.9.3

IMDG: no

Labelled with "P" according 2.10 IMDG: no

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section XV—Regulatory Information

Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class: 2, hazardous for water (German Regulation)

Local regulations on chemical accidents : Seveso-III Directive (2012/18/EU):

Appendix 1, No. 7b, 9b

Employment restrictions:

Restriction and prohibition of application: Toluene (108-88-3): EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles, Registered no. 48

Chemical Safety Assessment: A Chemical Safety Assessment has not been carried out for this product.

Further Information: EC. REACH, Annex XIV, Candidate List of Substances of veryHigh Concern (SVHC): not regulated / not applicable

Section XVI—Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe the product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.

Revision

Version: 1.0

Information Source and References

This SDS is from information supplied by internal references within our company.

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