



SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: Galdehyde
Product Description: Resin Solution
Intended Use: Fine art restoration

COMPANY

Company Name: Gamblin Conservation Colors
Company Address: 2734 SE Raymond Street
Portland, OR 97202
USA
Company Phone: 503-235-1945
Emergency Phone: Local Emergency Room

SECTION 2: HAZARDS IDENTIFICATION

This material is hazardous according to regulatory guidelines (see SDS Section 16)

CLASSIFICATION: **Flammable liquid : Category 3.**

Carcinogen: Category 2. Specific target organ toxicant (central nervous system): Category 3. Specific target organ toxicant (respiratory irritant): Category 3. Aspiration Toxicant: Category 1

LABEL ELEMENTS:

Hazard symbol:



Signal word: **Danger**

Hazard statement:

H226: Flammable liquid and vapor, H302 acute toxicity H304: May be fatal if swallowed and enters airways. H332 Acute Toxicity, Inhalation, H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness. 351: Suspected of causing cancer, H360DF Reproductive Toxicity (Category 1A)

Precautionary statements:

- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P210 - Keep away from heat/sparks/open flames/hot surfaces.—No Smoking.
- P 235 - Keep container tightly closed equipment.
- P 241 - Use explosive proof electrical ventilating and lighting equipment.
- P 242 - Use only non-sparking tools.
- P 243 - Take precautionary measures against static discharge
- P 261 - Avoid breathing mist/vapours.
- P 271 - Use only outdoors or in a well-ventilated area.



- P 273 – Avoid release into the environment.
- P280 - Wear eye protection, protective clothing, protective gloves, face protection.
- P 301 + 310 - IF SWALLOWED; Immediately call a POISON CENTER or doctor/physician.
- P303 + P361 + P 353 - IF ON SKIN(or hair). Take off immediately all contaminated clothing Rinse skin with water/shower.
- P 304 +P340 - IF INHALED; Remove person to fresh air and keep comfortable for breathing
- P 308+ P313 If exposed or concerned get medical attention.
- P 312 – Call a POISON CENTER or doctor/physician if you feel unwell.
- P 331 – Do NOT induce vomiting.
- P 332 + P313 – If skin irritation occurs get medical advice/attention.
- P 370 + P 378 – In case of fire use water fog, foam, dry chemical or carbon dioxide (CO2)
- P405 - Store locked up.
- P501 - Dispose of contents/container according to local, regional, national, and international regulations.

Contains: SOLVENT NAPHA (PETROLEUM). LIGHT AROMATIC

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC): None as defined under 29 CFR 1900. 1200.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS NUMBER/OTHER IDENTIFIERS

| Name | CAS# | Concentration (%) | Classification (GHS-US) |
|--|------------|-------------------|---|
| SOLVENT NAPHA (PETROLEUM) LIGHT AROMATIC | 64742-95-6 | 100 | H266,H304,H335 H336,H351,H316,H 401 |
| CUMENE | 98-82-8 | <1.1% | H226, H304, H335 |
| PSEUDOCUMENE(1,2,4 TRIMETHYL BENZENE) | 95-63-6 | <32% | H226, H304, H335 H315, H3192A, H401, H411 |
| XYLENES | 1330-20-7 | <2.2% | H226, H304, H312, H332, H335, H315, H32092B0, H373, H401 |

SECTION 4: FIRST AID MEASURES

Eyes: Wash with clean water for at least 15 minutes. If irritation persists, get medical attention.



Skin: Flush contaminated skin with plenty of soap and water. Remove contaminated clothing before reuse. Aaa

Inhalation: Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists. If breathing has stopped, assist ventilation with a mechanical device or use mouth to mouth resuscitation.

Ingestion: Do NOT induce vomiting. Rinse mouth. Call a doctor/physician if problems arise.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5: FIRE FIGHTING MEASURES

FIRE FIGHTING

Extinguishing Media: Use water fog, foam, dry chemical, or carbon dioxide (CO₂) to extinguish flames.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Fire fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel

Unusual Fire Hazards: Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Hazardous material. Firefighters should consider protective equipment indicated in Section 8.

Hazardous Combustion Products: Incomplete combustion products, Smoke, Fume, Oxides of carbon.

FLAMMABILITY PROPERTIES

Flash Point (Method): 46° C (115°F) [ASTM D-56]

Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 6.2

Autoignition Temperature: 485 ° C (905 ° F)

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

General Measures: Avoid all contact with skin, eyes, or clothing. Avoid breathing dust

NON-EMERGENCY PERSONNEL

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

**EMERGENCY RESPONDERS**

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Stop spill if safe to do so. Eliminate ignition sources. Ventilate area.

ENVIRONMENTAL PRECAUTIONS

General Measures: Prevent entry to sewers and public waters.

METHODS FOR MATERIAL CONTAINMENT AND CLEAN-UP

For Containment: Contain and collect as any solid.

Methods for Clean-up: Clear up spills immediately and dispose of waste safely. Spills should be

contained with mechanical barriers. Transfer spilled material to a suitable container for disposal.

ADDITIONAL

See Heading 8. Exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE**PRECAUTIONS FOR SAFE HANDLING**

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, and drinking.

CONDITIONS FOR SAFE STORAGE

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

Incompatible Products: Strong acids. Strong bases. Strong oxidizers.

SPECIFIC END USE(S) Resin solution

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**CONTROL PARAMETERS**

| SUBSTANCE NAME | FORM | Limit/Standard | | | NOTE | SOURCE |
|---|-------|----------------|--------------------------|--------------------------|---------------------------|----------------|
| CUMENE | | TWA | 245 mg/m ³ | 50ppm | Skin | OSHA Z1 |
| CUMENE | | TWA | 50ppm | | N/A | ACGIH |
| PSEUDOCUMENE 1,2,4-TRIMETHYLBENZENE | | TWA | 25ppm | | N/A | ACGIH |
| SOLVENT NAPHTHA (PETROLEUM) LIGHT AROMATIC | VAPOR | RCP- TWA | 19 ppm | 100 Mg/m ³ | Total Hydrocar bons | Exxon Mobil |
| XYLENES | | TWA | 435mg/ m ³ | 100ppm | N/A | OSHAZ1 |
| XYLENES | | STEL | 150ppm | | N/A | ACGIH |
| XYLENES | | TWA | 100ppm | | N/A | ACGIH |

EXPOSURE CONTROLS



Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment:

Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.

Materials for Protective Clothing:

Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection:

Wear suitable protective clothing.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Environmental Exposure Controls:

Do not allow the product to be released into the environment.

Consumer Exposure Controls:

Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION

Physical State: Liquid
Color: water clear
Odor: Aromatic
Odor Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Boiling Point: 161°C(322°F)-171°C (340°F)
Melting Point: N/D
Freezing Point: -14°C (7°F)

Vapor Pressure: 0.269 kPa (2.02 mm Hg) at 20°C | 0.815 kPa (6.13 mm Hg) at 38° C

Vapor Density: Air=1 4.2 at 1101 kPa

Relative Density: N/A
Evaporation Rate: N/A
Solubility in Water: Insoluble in cold water and hot water
Solids by Weight: N/D
Tap Density N/A
VOC Content: N/D
Molecular Weight: N/A
Viscosity: N/D
Decomposition Temp: N/D
pH: 6-7

SECTION 10: STABILITY AND REACTIVITY

INFORMATION ON STABILITY AND REACTIVITY

Stability: Material is stable under normal conditions



- Conditions to Avoid:** Extremely high or low temperatures. Ignition sources. Incompatible materials.
- Materials to Avoid:** Strong acids. Strong bases. Strong oxidizers.
This material contains synthetic iron oxide which is incompatible with hydrazine, calcium hypochlorite, performic acid, and ethylene oxide.
- Hazardous Decomposition or Bi-Products:**
Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Possibility of Hazardous Reactions:**
Under normal conditions of storage and use, hazardous reactions will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

- Acute Toxicity:** Minimally Toxic
Data Available
- Inhalation:** Data Available
Elevated temperatures or mechanical action may form vapors, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs. Based on test data for structurally similar materials.
- Ingestion:** LD50 Oral Rat > 3492 mg/kg

- Skin Corrosion/Irritation:** Acute Toxicity (Rabbit) >3160 mg/kg. Minimally toxic based on test data.
- Serious Eye Damage/Irritation:** Data available. May cause mild short-lasting discomfort to eyes.
- Respiratory or Skin Sensitization:** Data available
- Germ Cell Mutagenicity:** Data available
- Carcinogenicity:** No end point data for material. Caused cancer in laboratory animals, but relevance to humans is uncertain.
- National Toxicity Program (NTP) Status:** No Data
- Reproductive Toxicity:** Not expected to be a reproductive toxicant.
- Specific Target Organ Toxicity (Single Exposure):** May cause drowsiness. May be irritating to respiratory Tract, based on assessment of components.
- Specific Target Organ Toxicity (Repeated Exposure):** Not expected to cause organ damage from Prolonged or repeated exposure
- Aspiration Hazard:** Not classified

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

- Inhalation:** May cause respiratory irritation
- Ingestion:** No adverse effects due to ingestion are expected
- Skin:** May cause skin irritation
- Eye:** May cause eye irritation

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION

- Ecotoxicity:** Expected to be toxic to aquatic Organisms. May cause long-term adverse effects in the Aquatic environment.
- Mobility:** Highly volatile, will partition rapidly to air . Not expected to partition to sediment and



wastewater solids.

PERSISTENCE AND MOBILITY

Biodegradation: Expected to be readily biodegradable.

Hydrolysis: Transformation due to hydrolysis not expected to be significant.

Photolysis: Transformation due to photolysis not expected to be significant.

Atmospheric Oxidation: Expected to degrade rapidly in air.

SECTION 13: DISPOSAL CONSIDERATIONS

NOTE: Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at the time of disposal.

Waste Disposal: Dispose of in accordance with national, state, and local regulations.
Avoid release to the environment.

Empty Container: Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations.

SECTION 14: TRANSPORT INFORMATION

| | |
|----------------------------------|--|
| LAND (DOT): NAME | PETROLEUM DISTILLATES, N.O.S. |
| HAZARD Class and Division | 3 |
| ID Number | 1268 |
| Packing Group | III |
| Product RQ | 4545.45 lbs. Xylenes |
| ERG Number | 128 |
| Labels | 3 |
| Transport Document Name | UN 1268, PETROLEUM DISTILLATES, N.O.S.,3,PG III, RQ (xylenes) |

Footnote: The flashpoint of this material is greater than 100°F. Regulatory classification of This material varies. OSHA: Combustible Liquid. IATA/IMO: Flammable Liquid.

SEA (IMDG):

Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.
Hazard class and Division: 3
UN Number: 1268
Packing Group: III
Marine Pollutant: No
Labels(s): 3
Transport Document Name: UN 1268, Petroleum Distillate, N.O.S., 3, PGIII, (46°C)

Footnote: This material is not classified as a marine pollutant according to the Criteria presented in Chapter 2.9 of the IMDG code (H401 Only)

AIR (IATA):

Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.
Hazard Class & Division: 3
UN Number: 1268



Packing Group: III,
Label(s)/Mark(s): 3
Transportation Documents: UN1263, PETROLEUM DISTILLATES, N.O.S. PG.III

SECTION 15: REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: This material is considered hazardous in accordance with OSHA HazCom 2012, CFR 1910.1200

Listed or exempt from listing/notification on the following chemical inventories: ACIS,DSL,ENCS,ICESC, KECI, PICCS, TSCA.

EPCRA SECTION302: This material contains no extremely hazardous substances.

CERCLA:

| Chemical Name | CAS Number | Typical Value | Component RQ | Product RQ |
|---------------|------------|---------------|--------------|---------------|
| CUMENE | 98-82-8 | <1.1% | 5000 LBS | 454545.45 LBS |
| XYLENES | 1330-20-7 | <2.2% | 100 LBS | 4545.45 LBS |

CWA/OPA: This product is classified as an oil under section 311 of the Clean Water Act (40 CFR110) and the Oil Pollution Act of 1990. Discharge or spills which produce a visible sheen on either surface water, or in waterways/sewers which lead to surface water, must be reported to the National Response Center at 800-424-8802

SARA (311/312) REPORTABLE HAZARD CATEGORIES: Fire. Immediate Health. Delayed Health

SARA (313) TOXIC RELEASE INVENTORY:

| Chemical Name | CAS Number | Typical Value |
|--|------------|---------------|
| PSEUDOCUMENE (1,2,4-TRIMETHYLBENZENE) | 95-63-6 | <32% |
| XYLENES | 1330-20-7 | <2.2% |
| CUMENE | 98-82-8 | <1.1% |

The following ingredients are cited on lists below:

| Chemical Name | CAS Number | List Citations |
|--|------------|-------------------------|
| CUMENE | 98-82-8 | 1,4,10,13,16,17,18,19 |
| PSEUDOCUMENE (1,2,4-TRIMETHYLBENZENE) | 95-63-6 | 1, 13, 16, 17,, 18, 19 |
| XYLENES | 1330-20-7 | 1, 4,13, 16, 17, 18, 19 |

-REGULATORY LISTS SEARCHED-

- | | | | |
|-------------|----------------|-----------------|------------|
| 1=ACGIH ALL | 6=TSCA 5a2 | 11=CA P65 REPRO | 16= MN RTK |
| 2=ACGIH A1 | 7=TSCA 5e | 12=CA RTK | 17= NJ RTK |
| 3=ACXGIH A2 | 8=TSCA 6 | 13=IL RTK | 18= PA RTK |
| 4=OSHA Z | 9=TSCA 12b | 14- LA RTK | 19= RTK |
| 5=TSCA 4 | 10=CA P65 CARC | 15=MI 293 | |



SECTION 16: OTHER INFORMATION

KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only)

- H226: Flammable liquid and vapor, Flammable Liquid, Cat 3
- H304: May be fatal if swallowed and enters airways. Aspiration, Cat 1
- H312 Harmful in contact with skin; Acute Tox Dermal, Cat 4
- H315 Causes skin irritation; Skin Corr/Irritation, Cat 2
- H316 Causes mild skin irritation; Skin Corr/Irritation Cat 3
- H319(2A) Causes serious eye irritation; Serious Eye Damage/Irr, Cat 2A
- H320(2B) Causes eye irritation; Serious Eye Damage/Irr, Cat 2B
- H332 Harmful if Inhaled; Acute Tox Inh, Cat 4
- H335 May Cause Respiratory irritation; Target Organ Single, Resp irr
- H336 May Cause Drowsiness or Dizziness; Target Organ Single, Narcotici
- H351 Suspected of Causing Cancer; GHS Carcinogenicity, Cat 2
- H373 May Cause damage to organs through ;prolonged or repeated exposure; Target Organ, Repeated, Cat2a
- H401 Toxic to Aquatic Life; Acute Env Tox, Cat 2
- H411 Toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 2

HMIS III Rating:

| | |
|---------------------|--------------------------------------|
| Health | 1 |
| Fire | 2 |
| Reactivity | 0 |
| Personal Protection | E (glasses, gloves, dust respirator) |

N/D = Not determined, N/A = Not applicable

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Updates made in accordance with implementation of GHS requirements.

The information and recommendations contained herein are, to the best of Gamblin's knowledge and belief, accurate and reliable, but it is not warranted to be. You can contact Gamblin to ensure that this document is the most current available. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use and it is the user's responsibility to carefully read the product label and follow instructions for safe use of the product.