



KENNEY & ROSS LIMITED

6493 SHORE ROAD, SHELBURNE, NOVA SCOTIA CANADA B0T 1W0

PHONE: (902) 637-2616 FAX: (902) 637-2511

SAFETY DATA SHEET

Product: **PHOTOENGRAVING GLUE**

Revision Date: August 19, 2016

Version: 1.2

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 PRODUCT IDENTIFIER:

Substance Name: PHOTOENGRAVING GLUE

Product Numbers: n/a

CAS Number: 9000-70-8

EC Number: 232-554-6

Index Number: -

REACH Number: Exempt

1.2 RELEVANT IDENTIFIED USES OF SUBSTANCE AND USES ADVISED AGAINST

Relevant Identified Uses: Gelatin for photoengraving or technical applications.

Uses Advised Against: Not for use as food product or ingredient.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier:

Kenney and Ross Limited

6493 Shore Road

Shelburne, Nova Scotia

B0T 1W0 CANADA

Phone: +1-902-637-2616

Fax: +1-902-637-2511

bstoddard@krltd.ca

1.4 EMERGENCY TELEPHONE NUMBER

Company Telephone: +1-902-637-2616

Available only during office hours: 7:00 - 15:00 EST (English only)

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE

2.1.1 Classification according to Reg (EC) No. 1272/2008 (CLP):

Acute Tox. 4, H303 May be harmful if swallowed.



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2.2 LABEL ELEMENTS

Symbol(s): Exclamation mark



GHS07

Signal Word(s): WARNING

Hazard Statement(s):

H303 May be harmful if swallowed.

Precautionary Statement(s):

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing.

Rinse SKIN with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 OTHER HAZARDS:

None known.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 MIXTURE IDENTIFICATION

Substance Name: PHOTOENGRAVING GLUE

CAS Number: 9000-70-8

EC Number: 232-554-6

Index Number: -

REACH Number: Exempt

Synonyms: PE Glue, Fish Glue, Liquid Gelatin, Gelatin

3.2 COMPOSITION OF MIXTURE

Substance Name	CAS Number	EC Number	REACH Number	Weight %	Regulation (EC) No. 1272/2008 Classification	Hazard Statement(s)
Water	7789-2-0	231-791-2	Exempt	54-56	Not classified	None
Gelatin/Gelatine	9000-70-8	232-554-6	Exempt	44-46	Not classified	H313 H333 H335
Phenol	108-95-2	203-632-7	01-2119471329-32-0002	0.8	Acute tox 3 Skin irrit. 1B Eye irrit. 1 Germ cell mutagen 2 STOT RE 2 Acute aquatic tox 3 Chronic aquatic tox 2	H301+H311+H331 H314 H341 H373 H411



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4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

General information: Emergency medical attention is not typically required following exposure.

Following inhalation: Remove to fresh air if lightheaded or nauseous.

Following skin contact: Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.

Following eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical attention.

Self-protection of the first aider: No special protection required. Use normal protective gloves, eye protection and clothing.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUATE AND DELAYED

Symptoms: May be harmful if swallowed. Specific symptoms may vary and are unidentified.

Effects: Unknown

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION

Notes for Doctor: May be harmful if swallowed. Specific symptoms may vary and are unidentified.

Special treatment: Treat patient as described in Section 4.1.

5. FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable extinguishing media: Use water spray, foam, dry chemical or carbon dioxide

Unsuitable extinguishing media: None known

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE

Hazardous combustion products: None known

5.3 ADVISE FOR FIREFIGHTERS

Use standard firefighting precautions

5.4 ADDITIONAL INFORMATION

Flash point: None

Flammability: Not flammable

Upper flammable limit (% by Volume): Not applicable

Lower flammable limit (% by Volume): Not applicable

Auto-ignition temperature (°C): Not applicable

Hazardous combustion products: None

Explosion data: Sensitivity to Impact: None

NFPA Rating: Health 1; Flammability 0; Instability 0



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6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

6.1.1 For Non-Emergency Personnel:

Protective Equipment: Wear appropriate personal protective equipment, including gloves, safety glasses, and protective clothing to minimize skin exposure. Wear breathing apparatus to minimize inhalation exposure.

Emergency Procedures: Evacuate contaminated area.

6.1.2 For Emergency Responders:

Wear appropriate personal protective equipment, including gloves, safety glasses, and protective clothing to minimize skin exposure. Wear breathing apparatus to minimize inhalation exposure.

6.2 ENVIRONMENTAL PRECAUTIONS

Prevent substance from entering drains and other access to waterways.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN UP

6.3.1 For containment:

Control substance release. Cover drains or otherwise prevent substance from entering drains. Contain area to prevent uncontrolled flow of substance.

6.3.2 For clean up:

Rinse or mop with water. Collect wash water for proper disposal as contaminated aqueous waste.

6.4 REFERENCE TO OTHER SECTIONS

See Sections 8 and 13.



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7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

7.1.1 Protective measures:

Advice on safe handling: Wear suitable personal protective equipment including eye protection, clothing and gloves.

Fire preventions: Avoid exposure to sources of ignition.

Aerosol and dust generation preventions: Use adequate ventilation to maintain low airborne concentrations.

Environmental precautions: No special precautions required when handled as described.

7.1.2 Advice on general occupation hygiene:

Apply general industrial good hygiene practises. Do not eat, drink or smoke in work area. Wash hands thoroughly after use. Remove contaminated clothing and personal protective equipment upon leaving work area and prior to entering eating areas.

7.2 CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES

Technical measures and storage conditions: Keep container tightly closed in a dry and well-ventilated location. Containers which are opened must be properly resealed and stored upright to prevent leakage.

Packaging materials: Keep barrels dry and tightly sealed. Avoid exposure of polyethylene bag to heat sources or caustic chemicals. Do not over stack.

Requirements for storage rooms and vessels: Keep container tightly closed in a dry and well-ventilated location.

Hints on storage assembly:

Storage Class: Non-hazardous

Materials to avoid: Avoid exposure to strongly acidic or strongly basic substances.

7.3 SPECIFIC END USES

Relevant Identified Uses: Gelatin for photoengraving or technical applications.

Specific End Uses: Photoengraving.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

8.1.1 Occupational exposure limits

Limit value (country of origin)	Substance	CAS No.	EC No.	Occupational exposure limit value		Monitoring/ Observation Processes	Peak Limit	Source
				Long term	Short term			
OEL (EU)	Phenol	108-95-2	203-632-7	2 ppm	4 ppm			2009/161/ EU

8.1.2 Biological limit values

Limit value (country of origin)	Substance	CAS No.	EC No.	Limit value	Parameter	Test material	Test date	Source
BLV (EU)	Phenol	108-95-2	203-632-7	120 mg/g creatinine		Urine		SCOEL SUM 16

8.1.3 Exposure limits at intended use

At intended use, exposure limits are not expected to exceed recommended occupational exposure limit or biological limit values.

8.1.4 DNEL/PNEC Values

Not applicable

8.1.5 Risk management measures according to used control banding approach

Not applicable

8.2 EXPOSURE CONTROLS

8.2.1 Appropriate engineering controls:

Facilities storing or using the mixture should be equipped with an eyewash station. Use adequate ventilation to maintain low airborne concentrations.

8.2.2 Personal protective equipment:

Apply general industrial good hygiene practises.

Eye protection: Safety glasses approved under appropriate regulatory standards such as NIOSH (US) or EN 166 (EU).

Skin protection:

Hand protection: Gloves approved for handling of non-hazardous materials.

Body protection: Coat or work clothes suitable for handling non-hazardous materials.

Other skin protection measures: Follow general industrial good hygiene practises.

Respiratory protection: When handling mixture in bulk, use of breathing apparatus is recommended for protection from exposure to fumes.

Thermal hazards: None known



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8.2.3 Environmental exposure controls:

Dispose as contaminated waste. Avoid bulk exposure to aqueous waste and wastewater streams.

8.2.4 Consumer exposure control:

Measures related to consumer uses of the substance (as such or in mixtures): Mixture is intended as a product for consumer use. No special precautions required.

Measures related to the service life of the substance in articles: Service life of mixture is indefinite when stored as recommended. When used as a product ingredient, follow the product manufacturer's storage recommendations.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Viscous Liquid

Colour: Amber or light brown

Odour: Acetic acid/vinegar

Odour threshold: No data available

	Value	Concentration	Method	Temperature	Pressure	Remark
pH	4.0-6.0	10%		30 °C		
Melting point/freezing point	5-10 °C	100%				
Initial boiling point/range	n/d					
Flash point	n/a					
Evaporation rate	n/a					
Flammability (solid)	n/a					
Upper/lower flammability or explosive limits						
Upper explosive limits	n/a					
Lower explosive limits	n/a					
Vapour pressure	n/a					
Vapour density	n/a					
Relative density (g/cc)	1.17	100%		ambient		
Solubility(ies)	n/d					
Partition coefficient: <i>n</i> -octanol/water	n/d					
Auto-ignition temperature	n/d					
Decomposition temperature	n/d					
Viscosity						
Viscosity, dynamic (P)	50-60	10%		30 °C		
Viscosity, kinematic (mm ² /s)	6.5-7.5	10%		30 °C		
Explosive properties	n/a					
Oxidizing properties	n/a					

n/a = not applicable n/d = not determined or data not available

9.2 OTHER INFORMATION

No data available



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10. STABILITY AND REACTIVITY

10.1 REACTIVITY

No data available

10.2 CHEMICAL STABILITY

No known hazardous reactions

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No known hazardous reactions

10.4 CONDITIONS TO AVOID

No known hazardous reactions

10.5 INCOMPATIBLE MATERIALS

Exposure to strongly acidic or strongly basic materials could result in substance decomposition.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

No known hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity: May be harmful if swallowed.

Skin corrosion/irritation: No data available

Eye damage/irritation: No data available

Respiratory tract sensitization: No data available

Skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

Reproductive toxicity: No data available

Overall assessment on CMR properties: Not available

STOT SE: No data available

STOT RE: No data available

Aspiration hazard: No data available

Other information: To the best of our knowledge, the properties of the mixture have not been fully evaluated. On available data, the mixture is not harmful when used as intended.



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12. ECOLOGICAL INFORMATION

12.1 TOXICITY

- Aquatic toxicity: No data available
- Sediment toxicity: No data available
- Terrestrial toxicity: No data available
- Toxicity to soil macroorganisms except arthropods: No data available
- Toxicity to terrestrial arthropods: No data available
- Toxicity to terrestrial plants: No data available
- Toxicity to birds: No data available

12.2 PERSISTENCE AND DEGRADABILITY

Substance is readily degraded by many types of bacteria when thoroughly diluted.

12.3 BIOACCUMULATIVE POTENTIAL

No data available

12.4 MOBILITY IN SOIL

No data available

12.5 RESULTS OF PBT AND vPvB ASSESSMENT

Not applicable

12.6 OTHER ADVERSE EFFECTS

To the best of our knowledge, the properties of the mixture have not been fully evaluated. On available data, the mixture is not harmful to the environment.

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

13.1.1 Product / packaging disposal:

Waste codes/waste designations according to EWC/AVV: Not classified

Packaging: Offer clean barrels and polyethylene bags as recycling or dispose according to local regulations. Dispose of all materials in a manner consistent with all federal, state and local regulations.

13.1.2 Waste treatment options:

Offer surplus solids and non-recyclable solutions to a licensed waste disposal company.

13.1.3 Sewage disposal information:

Not applicable

13.1.4 Other disposal recommendations:

Dispose of all materials in a manner consistent with all federal, state and local regulations.



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14. TRANSPORT INFORMATION

14.1 UN NUMBER:

Not regulated as hazardous for transportation under DOT (US), ADR/RID (EU), ADN, IMDG, ICAO-TI or IATA-DGR

14.2 UN PROPER SHIPPING NAME

Not applicable

14.3 TRANSPORTATION HAZARD CLASS(ES)/LABELS

Not applicable

14.4 PACKING GROUP

Not applicable

14.5 ENVIRONMENTAL HAZARDS

Not classified

14.6 SPECIAL PRECAUTIONS FOR USER

Not classified

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not classified

14.8 ADDITIONAL INFORMATION

Land transport (ADR/RID):

Limited quantity: Not applicable

Special provisions: Not applicable

Tunnel restriction code: Not applicable

Classification code: Not applicable

Transport category: Not applicable

Hazard identification number (Kemler No.) Not applicable

Inland waterway transport (ADN):

Limited quantity: Not applicable

Special provisions: Not applicable

Category: Not applicable

Sea transport (IMDG):

Limited quantity: Not applicable

Special provisions: Not applicable

Marine pollutant: Not applicable

Segregation group: Not applicable

Air transport (ICAO-TI / IATA-DGR):

Limited quantity: Not applicable

Special provisions: Not applicable



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15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE/MIXTURE

This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006 - 453/2010 and OSHA Hazard Communication Standard 29 CFR 1910.1200. Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe.

15.1.1 EU Regulations

Authorizations and/or restrictions on use:

Authorizations: Not applicable

Restrictions on use: Not applicable

Other EU regulations:

EU Indication of Danger: Not classified

15.1.2 National Regulations

United States Regulations

Toxic substance control act (TSCA) - USA: Listed

SARA Act of 1986 - USA Section 302: Not applicable; Section 313: Not listed; SARA 311/312: No SARA Hazards

Massachusetts Right to Know: No components subject to this requirement

Pennsylvania and New Jersey Right to Know Components: Phenol CAS No. 108-95-2

California Prop 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

Canada Regulations

Domestic substances list (DSL) - Canada: Listed

WHMIS - Canada: Not controlled

15.2 CHEMICAL SAFETY ASSESSMENT

A chemical safety assessment is not required for this mixture.



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16. OTHER INFORMATION

16.1 INDICATION OF CHANGES

Version 1.2 (August 19, 2016) supersedes version 1.1 (December 23, 2015). The document was updated for the purpose of complying with EU Regulation (EC) No. 1272/2008 (CLP).

16.2 ABBREVIATIONS AND ACRONYMS

ACGIH	American Conference of Governmental Industrial Hygienists
BLV	Biological Limit Value
CAS	Chemical Abstract Service
CFR	Code of Federal Regulations
CLP	Classification, Labelling, Packaging
DNEL/PNEC	Derived No-Effect Level/Predicted No-Effect Concentration
DOT (US)	Department of Transportation (United States)
EC	European Community
EN 166	European Standard 166
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
n/a	not applicable
n/d	not determined / data not available
NIOSH (US)	National Institute for Occupational Safety and Health (United States)
NTP	National Toxicological Program
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
REACH	Regulation, Evaluation, Authorization and Restriction of Chemicals
SCOEL	Scientific Committee on Occupational Exposure Limits
STOT RE	Specific Target Organ Toxicity, Repeat Exposure
STOT SE	Specific Target Organ Toxicity, Single Exposure
WHMIS	Workplace Hazardous Materials Information System

16.3 KEY LITERATURE REFERENCES AND SOURCES FOR DATA

Commission Directive 2009/161/EU of 17 December 2009 - Establishing a third list of indicative occupational exposure limit values.

SCOEL SUM 16 - Recommendation from the Scientific Expert Group on Occupational Exposure Limits for Phenol, January 2003.

16.4 CLASSIFICATION FOR MIXTURES AND USED EVALUATION METHOD ACCORDING TO REGULATION (EC) 1207/2008 (CLP)

See Section 2.1 for classification information.



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16.5 RELEVANT R-, H- AND EUH-PHRASES (NUMBER AND FULL TEXT)

H303 May be harmful if swallowed

H313 May be harmful in contact with skin.

H314 Causes severe skin burns and eye damage

H333 May be harmful if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects

H373 May cause damage to organs through prolonged or repeated exposure

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled

H411 Toxic to aquatic life with long-lasting effects

16.6 TRAINING ADVICE

Comply with all information contained in the Safety Data Sheet.

16.7 FURTHER INFORMATION

The information and data included herein are presented according to Kenney and Ross Limited's practises current at the time of preparation hereof, are made available solely for the consideration, investigation and verification of the original recipients hereof and do not constitute a representation or warranty for which Kenney and Ross Limited assumes responsibility. It is the responsibility of a recipient of this information to remain currently informed of chemical hazard information, to design and update its own safety program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right to know legislation and environmental protection.