



Allied Pressroom Products
Chemicals for the International Printing Industry

SAFETY DATA SHEET UNIFOUNT (USA)

1. Identification

Product identifier

Product name UNIFOUNT (USA)

Recommended use of the chemical and restrictions on use

Application For use as a fountain solution in the lithographic printing industry. Fountain solution.

Uses advised against No specific uses advised against are identified.

Details of the supplier of the safety data sheet

Supplier ALLIED PRESSROOM PRODUCTS
2040 Lee Street
Hollywood
FL 33020
USA
+1 800-327-8487 (09:00-17:00 EST)
+1 954-923-6462
info@alliedchem.com

Emergency telephone number

Emergency telephone 24 HR. EMERGENCY TELEPHONE 800-424-9300 CHEMTREC Allied Pressroom Products
+1 800-327-8487 (09:00-17:00 EST)

National emergency telephone number 911

2. Hazard(s) identification

Classification of the substance or mixture

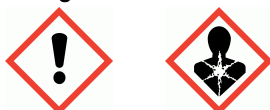
Physical hazards Not Classified
Health hazards Skin Sens. 1 - H317 STOT RE 2 - H373
Environmental hazards Not Classified

Human health

The product contains a sensitizing substance. May cause skin sensitization or allergic reactions in sensitive individuals. The product contains organic solvents. Organic solvents may be absorbed into the body by inhalation and ingestion. Overexposure may depress the central nervous system, causing dizziness and intoxication. May cause damage to organs through prolonged or repeated exposure if swallowed.

Label elements

Pictogram



Signal word

Warning

UNIFOUNT (USA)

Description of first aid measures

Inhalation	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.
Skin Contact	Remove affected person from source of contamination. Wash skin thoroughly with soap and water. Get medical attention if symptoms are severe or persist after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

Most important symptoms and effects, both acute and delayed

Inhalation	Upper respiratory irritation. In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death.
Ingestion	Diarrhea. May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication. Brain damage. Unconsciousness, possibly death. May cause damage to organs (Liver, Kidneys) through prolonged or repeated exposure if swallowed.
Skin contact	Allergic rash. This product is rapidly absorbed through the skin and may cause symptoms similar to those of ingestion. May cause irritation.
Eye contact	May irritate eyes. Symptoms following overexposure may include the following: Redness. Pain.

Indication of immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations.
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5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Special hazards arising from the substance or mixture

Specific hazards	No unusual fire or explosion hazards noted.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Oxides of carbon.

Advice for firefighters

Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.
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Environmental precautions

Environmental precautions	Avoid discharge into drains or watercourses or onto the ground.
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Methods and material for containment and cleaning up

Methods for cleaning up	Wash thoroughly after dealing with a spillage. Absorb in vermiculite, dry sand or earth and place into containers.
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Reference to other sections For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Avoid inhalation of vapors.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

ETHANEDIOL

Ceiling exposure limit: ACGIH 100 mg/m³

A4

2-BUTOXYETHANOL

A3, Sk

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm

Long-term exposure limit (8-hour TWA): OSHA 50 ppm 240 mg/m³

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.

Sk = Danger of cutaneous absorption.

OSHA = Occupational Safety and Health Administration.

ETHANEDIOL (CAS: 107-21-1)

DNEL Industry - Dermal; Long term systemic effects: 106 mg/kg/day Industry - Inhalation; Long term local effects: 35 mg/m³

PNEC - Sediment (Freshwater); 20.9 mg/kg - Soil; 1.53 mg/kg - Marine water; 1 mg/l - Intermittent release; 10 mg/l - Fresh water; 10 mg/l - STP; 199.5 mg/l

2-BUTOXYETHANOL (CAS: 111-76-2)

DNEL Industry - Inhalation; Long term systemic effects: 20 ppm Industry - Dermal; Short term systemic effects: 89 mg/kg/day Industry - Inhalation; Short term systemic effects: 135 ppm Industry - Inhalation; Short term local effects: 50 ppm Industry - Dermal; Long term systemic effects: 75 mg/kg/day

PNEC - Marine water; 0.88 mg/l - Sediment (Freshwater); 43.6 mg/kg - Soil; 2.8 mg/kg - STP; 463 mg/l - Sediment (Marinewater); 3.46 mg/kg - Fresh water; 8.8 mg/l

Immediate danger to life and health 700 ppm

Exposure controls

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Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. Do not smoke in work area.

Respiratory protection

No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Wear a respirator fitted with the following cartridge: Organic vapor filter.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Clear liquid.
Color	Pink.
Odor	Glycol ether.
Odor threshold	No information available.
pH	pH (concentrated solution): 3 - 4
Melting point	Not applicable.
Initial boiling point and range	100°C @ 760 mm Hg 212°F @ 760 mm Hg
Flash point	None <200°F TCC (Tag closed cup).
Evaporation rate	<1 (butyl acetate = 1)
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	<3 mm Hg @ 20°C
Vapour density	>1
Relative density	1.02 @ 20°C
Bulk density	Not applicable.
Solubility(ies)	Completely soluble in water.
Partition coefficient	No information available.

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Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.
Oxidising properties	Not available.
Comments	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.
Volatile organic compound	This product contains a maximum VOC content of 202 g/l. This product contains a maximum VOC content of 1.7 lb per Gallon.

10. Stability and reactivity

Reactivity	There are no known reactivity hazards associated with this product.
Stability	Stable at normal ambient temperatures.
Possibility of hazardous reactions	Will not polymerize.
Conditions to avoid	Avoid excessive heat for prolonged periods of time.
Materials to avoid	Strong alkalis. Strong oxidizing agents. Strong reducing agents.
Hazardous decomposition products	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO ₂).

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 3,476.0

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 12,569.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

ATE inhalation (gases ppm) 51,418.65

ATE inhalation (vapours mg/l) 125.69

ATE inhalation (dusts/mists mg/l) 17.14

Skin corrosion/irritation

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

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

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Respiratory sensitisation	Based on available data the classification criteria are not met.
<u>Skin sensitisation</u>	
Skin sensitisation	Sensitizing.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
<u>Carcinogenicity</u>	
Carcinogenicity	Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure if swallowed.
Target organs	Kidneys Liver
<u>Aspiration hazard</u>	
Aspiration hazard	Not anticipated to present an aspiration hazard, based on chemical structure.
<u>Inhalation</u>	
Inhalation	May cause nausea, headache, dizziness and intoxication. May be harmful if inhaled.
<u>Ingestion</u>	
Ingestion	May cause discomfort if swallowed. May be harmful if swallowed. Diarrhea. May cause nausea, headache, dizziness and intoxication. Brain damage. May cause unconsciousness, blindness and possibly death. May cause damage to organs (Kidneys, Liver) through prolonged or repeated exposure if swallowed. May cause liver and/or renal damage.
<u>Skin Contact</u>	
Skin Contact	May cause sensitisation by skin contact. Contains components which may penetrate the skin. May be harmful in contact with skin.
<u>Eye contact</u>	
Eye contact	May irritate eyes.
<u>Route of entry</u>	
Route of entry	Inhalation Skin absorption Ingestion. Skin and/or eye contact
<u>Target Organs</u>	
Target Organs	Eyes Skin Central nervous system Respiratory system, lungs Kidneys Heart and cardiovascular system Brain Liver

12. Ecological Information

Ecotoxicity	Not known. However, this preparation has not been classified as hazardous to the environment using the conventional method calculation.
<u>Toxicity</u>	
Acute toxicity - fish	Not known.
Acute toxicity - aquatic invertebrates	Not known.
Acute toxicity - aquatic plants	Not known.
<u>Persistence and degradability</u>	
Persistence and degradability	There are no data on the degradability of this product.
<u>Bioaccumulative potential</u>	

UNIFOUNT (USA)

Bio-Accumulative Potential	No data available on bioaccumulation.
Partition coefficient	No information available.
<u>Mobility in soil</u>	
Mobility	The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces. The product is soluble in water.

Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This substance is not classified as PBT or vPvB according to current EU criteria.
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Other adverse effects

Other adverse effects	Not known.
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13. Disposal considerations

Waste treatment methods

General information	When handling waste, the safety precautions applying to handling of the product should be considered.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).
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UN Number

Not applicable.

UN proper shipping name

Not applicable.

Transport hazard class(es)

Not applicable.

Packing group

Not applicable.

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

UNIFOUNT (USA)

DIMETHYLNITROSOAMINE

<0.01%

ETHYLENE OXIDE

<0.01%

PROPYLENE OXIDE

<0.01%

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

COPPER NITRATE

<0.01%

DIMETHYLNITROSOAMINE

<0.01%

ETHANEDIOL

10-30%

1,4-DIOXANE

<0.01%

ETHYLENE OXIDE

<0.01%

ACETALDEHYDE

<0.01%

PROPYLENE OXIDE

<0.01%

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

DIMETHYLNITROSOAMINE

<0.01%

SARA 313 Emission Reporting

ETHANEDIOL

10-30%

2-BUTOXYETHANOL

5-10%

CAA Accidental Release Prevention

ETHYLENE OXIDE

<0.01%

ACETALDEHYDE

<0.01%

PROPYLENE OXIDE

<0.01%

FDA - Essential Chemical

Not listed.

FDA - Precursor Chemical

Not listed.

OSHA Highly Hazardous Chemicals

UNIFOUNT (USA)

ETHYLENE OXIDE

<0.01%

ACETALDEHYDE

<0.01%

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

DIMETHYLNITROSOAMINE

<0.01%

1,4-DIOXANE

<0.01%

ETHYLENE OXIDE

<0.01%

ACETALDEHYDE

<0.01%

PROPYLENE OXIDE

<0.01%

California Air Toxics "Hot Spots" (A-I)

DIMETHYLNITROSOAMINE

<0.01%

ETHANEDIOL

10-30%

1,4-DIOXANE

<0.01%

ETHYLENE OXIDE

<0.01%

ACETALDEHYDE

<0.01%

2-BUTOXYETHANOL

5-10%

PROPYLENE OXIDE

<0.01%

California Air Toxics "Hot Spots" (A-II)

Not listed.

California Directors List of Hazardous Substances

COPPER NITRATE

<0.01%

DIMETHYLNITROSOAMINE

<0.01%

ETHANEDIOL

10-30%

1,4-DIOXANE

<0.01%

UNIFOUNT (USA)**ETHYLENE OXIDE**

<0.01%

ACETALDEHYDE

<0.01%

2-BUTOXYETHANOL

5-10%

PROPYLENE OXIDE

<0.01%

Massachusetts "Right To Know" List**COPPER NITRATE**

<0.01%

DIMETHYLNITROSOAMINE

<0.01%

ETHANEDIOL

10-30%

Glycerine

5-10%

Distillates (petroleum),hydrotreated light naphthenic

<0.01%

1,4-DIOXANE

<0.01%

ETHYLENE OXIDE

<0.01%

ACETALDEHYDE

<0.01%

2-BUTOXYETHANOL

5-10%

PROPYLENE OXIDE

<0.01%

Rhode Island "Right To Know" List**COPPER NITRATE**

<0.01%

DIMETHYLNITROSOAMINE

<0.01%

ETHANEDIOL

10-30%

Glycerine

5-10%

1,4-DIOXANE

<0.01%

ETHYLENE OXIDE

<0.01%

ACETALDEHYDE

<0.01%

UNIFOUNT (USA)**2-BUTOXYETHANOL**

5-10%

PROPYLENE OXIDE

<0.01%

Minnesota "Right To Know" List**DIMETHYLNITROSOAMINE**

<0.01%

ETHANEDIOL

10-30%

Glycerine

5-10%

1,4-DIOXANE

<0.01%

ETHYLENE OXIDE

<0.01%

ACETALDEHYDE

<0.01%

2-BUTOXYETHANOL

5-10%

PROPYLENE OXIDE

<0.01%

Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated

<0.01%

New Jersey "Right To Know" List**COPPER NITRATE**

<0.01%

DIMETHYLNITROSOAMINE

<0.01%

ETHANEDIOL

10-30%

Glycerine

5-10%

1,4-DIOXANE

<0.01%

ETHYLENE OXIDE

<0.01%

ACETALDEHYDE

<0.01%

2-BUTOXYETHANOL

5-10%

PROPYLENE OXIDE

<0.01%

Pennsylvania "Right To Know" List

UNIFOUNT (USA)**COPPER NITRATE**

<0.01%

DIMETHYLNITROSOAMINE

<0.01%

ETHANEDIOL

10-30%

Glycerine

5-10%

1,4-DIOXANE

<0.01%

ETHYLENE OXIDE

<0.01%

ACETALDEHYDE

<0.01%

2-BUTOXYETHANOL

5-10%

PROPYLENE OXIDE

<0.01%

Inventories**Canada - DSL/NDSL**

All the ingredients are listed or exempt.

DSL

NDSL

US - TSCA

Not listed.

US - TSCA 12(b) Export Notification

5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)

<0.01%

ACETALDEHYDE

<0.01%

16. Other information

Key literature references and sources for data Material Safety Data Sheet, Misc. manufacturers.

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Issued by J Waterfield

Revision date 7/2/2015

Revision 2.0

Supersedes date 9/1/2012

SDS No. 21246

UNIFOUNT (USA)

Hazard statements in full	H227 Combustible liquid. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H373 May cause damage to organs through prolonged or repeated exposure if swallowed. H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure if swallowed.
ACA HMIS Health rating.	Moderate hazard. (2)
ACA HMIS Physical hazard rating.	Normally stable. (0)
ACA HMIS Personal protection rating.	C
ACA HMIS Flammability rating.	Burns only if pre-heated. (1)

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.