Allied Pressroom Products
Chemicals for the International Printing Industry

SAFETY DATA SHEET
ALL STAR FOUNTAIN SOLUTION (USA)

1. Identification

Product identifier

Product name ALL STAR FOUNTAIN SOLUTION (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 Allied Pressroom Products +1 800-327-8487 (09:00-17:00 EST) 24 HR. EMERGENCY TELEPHONE 800-424-9300 CHEMTREC

National emergency telephone number 911

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 1B - H350i Repr. 1B - H360F STOT RE 2 - H373

Environmental hazards Not Classified

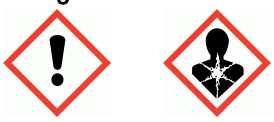
Human health May cause sensitisation by inhalation. May cause skin sensitization or allergic reactions in sensitive individuals. The product is irritating to eyes and skin. Harmful by inhalation. Contains a substance/a group of substances which may damage fertility. May cause damage to organs through prolonged or repeated exposure.

Environmental The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Label elements

ALL STAR FOUNTAIN SOLUTION (USA)

Pictogram



Signal word Danger

Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H350i May cause cancer by inhalation.
H360F May damage fertility.
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

Precautionary statements

P201 Obtain special instructions before use.
P260 Do not breathe vapor/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 If exposed or concerned: Get medical advice/attention.
P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.
P362+P364 Take off contaminated clothing and wash it before reuse.

Contains 2-BUTOXYETHANOL, ETHANEDIOL, COBALT NITRATE, 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)

Other hazards

This product contains substances classified as PBT.

3. Composition/information on ingredients

Mixtures

2-BUTOXYETHANOL **10-30%**

CAS number: 111-76-2

Classification
Flam. Liq. 4 - H227
Acute Tox. 4 - H302
Acute Tox. 4 - H312
Acute Tox. 4 - H332
Skin Irrit. 2 - H315
Eye Irrit. 2A - H319

ETHANEDIOL **10-30%**

CAS number: 107-21-1

Classification
Acute Tox. 4 - H302
STOT RE 2 - H373

ALL STAR FOUNTAIN SOLUTION (USA)

Magnesium Nitrate **1-5%**

CAS number: 10377-60-3

Classification
Ox. Sol. 2 - H272
Eye Irrit. 2A - H319

AMMONIUM NITRATE **1-5%**

CAS number: 6484-52-2

Classification
Ox. Sol. 3 - H272
Eye Irrit. 2A - H319

Citric Acid **1-5%**

CAS number: 77-92-9

Classification
Eye Irrit. 2A - H319

2,4,7,9-TETRAMETHYL-5-DECYNE-4,7-DIOL **<1%**

CAS number: 126-86-3

Classification
Eye Dam. 1 - H318
Skin Sens. 1B - H317

COBALT NITRATE **<1%**

CAS number: 10141-05-6

M factor (Acute) = 10 M factor (Chronic) = 10

Classification
Ox. Sol. 2 - H272
Acute Tox. 4 - H302
Resp. Sens. 1 - H334
Skin Sens. 1 - H317
Muta. 2 - H341
Carc. 1B - H350i
Repr. 1B - H360F

ALL STAR FOUNTAIN SOLUTION (USA)

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)	**<0.1%**
CAS number: 55965-84-9	
M factor (Acute) = 10 M factor (Chronic) = 1	

Classification
Acute Tox. 3 - H301
Acute Tox. 3 - H311
Acute Tox. 3 - H331
Skin Corr. 1B - H314
Eye Dam. 1 - H318
Skin Sens. 1 - H317

The Full Text for all Hazard Statements are Displayed in Section 16.

4. First-aid measures

Description of first aid measures

Inhalation Get medical attention if any discomfort continues. Move affected person to fresh air at once.

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 irritation persists 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

General information Contains a substance/a group of substances which may damage fertility.

Inhalation Upper respiratory irritation. Harmful by inhalation. May cause an asthma-like shortness of breath. Contains a substance which may cause cancer by inhalation. May cause nausea, headache, dizziness and intoxication. Vapor may affect central nervous system.

Ingestion Diarrhoea. May cause stomach pain or vomiting. May cause unconsciousness, blindness and possibly death. May cause liver and/or renal damage. Brain damage.

Skin contact Allergic rash. Irritating.

Eye contact Irritating to eyes.

Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations.

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

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Toxic gases or vapors. Hydrocarbons.

Advice for firefighters

ALL STAR FOUNTAIN SOLUTION (USA)

Protective actions during firefighting Avoid breathing fire gases or vapors. Containers close to fire should be removed or cooled with water. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

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

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.

Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

Methods and material for containment and cleaning up

Methods for cleaning up Absorb in vermiculite, dry sand or earth and place into containers. Avoid the spillage or runoff entering drains, sewers or watercourses. PERSONAL PROTECTION. Avoid contact with skin or inhalation of spillage, dust or vapour.

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, eyes and clothing. Avoid inhalation of vapors and spray/mists.

Conditions for safe storage, including any incompatibilities

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

Storage class Toxic storage.

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

2-BUTOXYETHANOL

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm
Long-term exposure limit (8-hour TWA): OSHA 50 ppm 240 mg/m³
A3, Sk

ETHANEDIOL

Ceiling exposure limit: ACGIH 100 mg/m³
A4

A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.
Sk = Danger of cutaneous absorption.
ACGIH = American Conference of Governmental Industrial Hygienists.
OSHA = Occupational Safety and Health Administration.
A4 = Not Classifiable as a Human Carcinogen.

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

ALL STAR FOUNTAIN SOLUTION (USA)

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

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

Exposure controls

Protective equipment

Appropriate engineering controls	As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapor or mist.
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. Wear protective gloves made of the following material: Rubber or plastic.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.
Hygiene measures	Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water 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	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Wear a full facepiece respirator fitted with the following cartridge: Organic vapor + dust and mist 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

ALL STAR FOUNTAIN SOLUTION (USA)

Melting point	Not applicable.
Initial boiling point and range	>100°C @ 760 mm Hg
Flash point	> 200°F TCC (Tag closed cup).
Evaporation rate	< 1 (butyl acetate = 1)
Upper/lower flammability or explosive limits	No information available. : : No information available.
Vapour pressure	<3 mm Hg @ 20°C
Vapour density	>1
Relative density	~ 0.97 @ 20°C
Bulk density	Not applicable.
Solubility(ies)	Completely soluble in water.
Partition coefficient	No information available.
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 481 g/litre. This product contains a maximum VOC content of 4 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 acids. Strong alkalis. Strong oxidizing agents. Strong reducing agents.
Hazardous decomposition products	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2). Nitrous gases (NOx). Hydrocarbons.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

Notes (oral LD_{50})	Based on available data the classification criteria are not met.
ATE oral (mg/kg)	2,228.3549598

Acute toxicity - dermal

Notes (dermal LD_{50})	Based on available data the classification criteria are not met.

ALL STAR FOUNTAIN SOLUTION (USA)

ATE dermal (mg/kg)	3,703.7037037

Acute toxicity - inhalation

Notes (inhalation LC_{50})	Harmful by inhalation.
ATE inhalation (gases ppm)	15,151.51515152
ATE inhalation (vapours mg/l)	37.03703704
ATE inhalation (dusts/mists mg/l)	5.05050505

Skin corrosion/irritation

Human skin model test	Irritating.

Serious eye damage/irritation

Serious eye damage/irritation	Causes eye irritation.

Respiratory sensitisation

Respiratory sensitisation	Sensitizing.

Skin sensitisation

Skin sensitisation	Sensitizing.

Carcinogenicity

Carcinogenicity	May cause cancer by inhalation.

Reproductive toxicity

Reproductive toxicity - fertility	Contains a substance/a group of substances which may damage fertility.

Specific target organ toxicity - single exposure

STOT - single exposure	Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Target organs	Kidneys Liver

Aspiration hazard

Aspiration hazard	Not anticipated to present an aspiration hazard, based on chemical structure.

Inhalation	May cause sensitisation by inhalation. May cause an asthma-like shortness of breath. Gas or vapor is harmful on prolonged exposure or in high concentrations. Overexposure to organic solvents may depress the central nervous system, causing dizziness and intoxication and, at very high concentrations, unconsciousness and death. Contains a substance which may cause cancer by inhalation.
Ingestion	May cause discomfort if swallowed. Nausea, vomiting. Diarrhea. May cause nausea, headache, dizziness and intoxication. May cause liver and/or renal damage. Brain damage. May cause unconsciousness, blindness and possibly death.
Skin Contact	May cause sensitisation by skin contact. Irritating. Contains components which may penetrate the skin.
Eye contact	Irritating.
Acute and chronic health hazards	Contains a substance/a group of substances which may cause cancer by inhalation. Contains a substance/a group of substances which may damage fertility.
Route of entry	Skin and/or eye contact Skin absorption Inhalation Ingestion

ALL STAR FOUNTAIN SOLUTION (USA)

Target Organs	Kidneys Heart & cardiovascular system Brain Central nervous system Eyes Reproductive organs Respiratory system, lungs Skin

12. Ecological Information

Ecotoxicity	The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Toxicity

Acute toxicity - fish	Not known.
Acute toxicity - aquatic invertebrates	Not known.
Acute toxicity - aquatic plants	Not known.

Persistance and degradability

Persistence and degradability	There are no data on the degradability of this product.

Bioaccumulative potential

Bio-Accumulative Potential	No data available on bioaccumulation.
Partition coefficient	No information available.

Mobility in soil

Mobility	The product is soluble in water.

Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This product contains a substance classified as PBT.

Other adverse effects

Other adverse effects	Not known.

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

UN Number

UN No. (DOT)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082

UN proper shipping name

Proper shipping name (DOT)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS COBALT NITRATE)
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS COBALT NITRATE)

ALL STAR FOUNTAIN SOLUTION (USA)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS COBALT NITRATE)

Transport hazard class(es)

IMDG Class 9

ICAO class/division 9

Transport labels

Packing group

DOT pack group III

IMDG packing group III

ICAO packing group III

Environmental hazards

Environmentally Hazardous Substance

Special precautions for user

EmS F-A, S-F

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

15. Regulatory information

International Regulations

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

DIMETHYLNITROSOAMINE
<0.01%

ETHYLENE OXIDE
<0.01%

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

ETHANEDIOL
10-30%

COPPER NITRATE
<0.01%

DIMETHYLNITROSOAMINE
<0.01%

1,4-DIOXANE
<0.01%

ALL STAR FOUNTAIN SOLUTION (USA)

ETHYLENE OXIDE
<0.01%

ACETALDEHYDE
<0.01%

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

DIMETHYLNITROSOAMINE
<0.01%

SARA 313 Emission Reporting

COBALT NITRATE
<1%

2-BUTOXYETHANOL
10-30%

ETHANEDIOL
10-30%

AMMONIUM NITRATE
1-5%

Magnesium Nitrate
1-5%

CAA Accidental Release Prevention

ETHYLENE OXIDE
<0.01%

ACETALDEHYDE
<0.01%

FDA - Essential Chemical
Not listed

FDA - Precursor Chemical
Not listed

OSHA Highly Hazardous Chemicals

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%

ALL STAR FOUNTAIN SOLUTION (USA)

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

2-BUTOXYETHANOL
10-30%

ETHANEDIOL
10-30%

AMMONIUM NITRATE
1-5%

DIMETHYLNITROSOAMINE
<0.01%

1,4-DIOXANE
<0.01%

ETHYLENE OXIDE
<0.01%

ACETALDEHYDE
<0.01%

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

Not listed

California Directors List of Hazardous Substances

2-BUTOXYETHANOL
10-30%

ETHANEDIOL
10-30%

COPPER NITRATE
<0.01%

DIMETHYLNITROSOAMINE
<0.01%

1,4-DIOXANE
<0.01%

ETHYLENE OXIDE
<0.01%

ACETALDEHYDE
<0.01%

Massachusetts "Right To Know" List

COBALT NITRATE
<1%

2-BUTOXYETHANOL
10-30%

ETHANEDIOL
10-30%

Glycerine
5-10%

AMMONIUM NITRATE
1-5%

ALL STAR FOUNTAIN SOLUTION (USA)

COPPER NITRATE
<0.01%

DIMETHYLNITROSOAMINE
<0.01%

Distillates (petroleum),hydrotreated light naphthenic
<0.01%

1,4-DIOXANE
<0.01%

ETHYLENE OXIDE
<0.01%

ACETALDEHYDE
<0.01%

Rhode Island "Right To Know" List

COBALT NITRATE
<1%

2-BUTOXYETHANOL
10-30%

ETHANEDIOL
10-30%

Glycerine
5-10%

AMMONIUM NITRATE
1-5%

COPPER NITRATE
<0.01%

DIMETHYLNITROSOAMINE
<0.01%

1,4-DIOXANE
<0.01%

ETHYLENE OXIDE
<0.01%

ACETALDEHYDE
<0.01%

Minnesota "Right To Know" List

2-BUTOXYETHANOL
10-30%

ETHANEDIOL
10-30%

Glycerine
5-10%

DIMETHYLNITROSOAMINE
<0.01%

Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated
<0.01%

ALL STAR FOUNTAIN SOLUTION (USA)

1,4-DIOXANE
<0.01%

ETHYLENE OXIDE
<0.01%

ACETALDEHYDE
<0.01%

New Jersey "Right To Know" List

2-BUTOXYETHANOL
10-30%

ETHANEDIOL
10-30%

Glycerine
5-10%

AMMONIUM NITRATE
1-5%

COPPER NITRATE
<0.01%

DIMETHYLNITROSOAMINE
<0.01%

1,4-DIOXANE
<0.01%

ETHYLENE OXIDE
<0.01%

ACETALDEHYDE
<0.01%

Pennsylvania "Right To Know" List

COBALT NITRATE
<1%

2-BUTOXYETHANOL
10-30%

ETHANEDIOL
10-30%

Glycerine
5-10%

AMMONIUM NITRATE
1-5%

COPPER NITRATE
<0.01%

DIMETHYLNITROSOAMINE
<0.01%

1,4-DIOXANE
<0.01%

ETHYLENE OXIDE
<0.01%

ALL STAR FOUNTAIN SOLUTION (USA)

ACETALDEHYDE
<0.01%

Inventories

Canada - DSL/NDSL
All the ingredients are listed or exempt.
DSL
NDSL

US - TSCA
All the ingredients are listed or exempt.

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)
<0.1%

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	1/23/2015
Revision	2.0
Supersedes date	1/1/2014
SDS No.	21075
Hazard statements in full	H227 Combustible liquid. H272 May intensify fire; oxidizer. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H350i May cause cancer by inhalation. H360F May damage fertility. H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure if swallowed. H373 May cause damage to organs through prolonged or repeated exposure if swallowed. H402 Harmful to aquatic life. H412 Harmful to aquatic life with long lasting effects.
ACA HMIS Health rating.	Moderate hazard. (2)
ACA HMIS Physical hazard rating.	Normally stable. (0)

ALL STAR FOUNTAIN SOLUTION (USA)

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.