

By-Lux

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: By-Lux
SDS Number: By-Lux #1
Revision Date: 6/14/2022
Product Use: NDT Inspection penetrant "Type 2 Methods "A" and "C" per AMS-2644/ ASTM E-1417

Supplier Details: Sherwin Inc.
5530 Borwick Avenue
South Gate, CA 90280

Phone: 562-861-6324
Email: sherwin@sherwininc.com
Internet: www.sherwininc.com

Emergency telephone number:

ChemTel 1-800-255-3924 in U.S.A, Canada, Puerto Rico and US Virgin Islands;
ChemTel +1-813-248-0585 outside U.S.A, Canada, Puerto Rico and US Virgin Islands
ChemTel Brazil: 0-800-591-6042, China: 400-120-0751, India: 000-800-100-4086 and Mexico: 01-800-099-0731

2 HAZARDS IDENTIFICATION

Classification of Substance

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Aspiration hazard, 1
Health, Serious Eye Damage/Eye Irritation, 1
Health, Skin corrosion/irritation, 2

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:



GHS Hazard Statements:

H304 - May be fatal if swallowed and enters airways
H318 - Causes serious eye damage
H315 - Causes skin irritation

GHS Precautionary Statements:

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash ... thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310 - IF SWALLOWED: Immediately call a doctor
P302 + P352 - IF ON SKIN: Wash with plenty of water. If irritation persists get medical attention.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331 - Do NOT induce vomiting.
P332 + P313 - If skin irritation occurs: Get medical advice/attention.
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.



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COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients:

CAS#	%	Chemical Name:
64742-47-8	50-70%	Distillates (petroleum), hydrotreated light
84133-50-6	25-50%	Alcohols, C12-14-secondary, ethoxylated
25322-68-3	<3%	Polyethylene glycols

Additional information:

The classification as a carcinogen need not to apply because the hydrotreated light naphthenic distillates solvent present, contains less than 3 % DMSO extract as measured by IP 346 (Dir. 2001/59/EC)

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FIRST AID MEASURES

- Inhalation:** Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.
- Skin Contact:** Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor
- Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids to facilitate irrigation. Get immediate medical attention.
- Ingestion:** Clean mouth with water and drink afterwards plenty of water. Keep respiratory tract clear. Do NOT induce vomiting or attempt chemical neutralization. If symptoms persist, call a physician.

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FIRE FIGHTING MEASURES

- Flash Point:** > 93 °C (> 200 °F)
- Flash Point Method:** ASTM D-93
- Autoignition Temp:** Not determined
- Lower Explosive Limit:** Not determined
- UEL:** Not determined
- Suitable extinguishing agents:** Water haze, Foam, ABC powder

Special hazards arising from the substance or mixture: Carbon monoxide and carbon dioxide

Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit

Unsuitable extinguishing media: High volume water jet

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ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures:** Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
- Environmental precautions:** Do not allow to enter storm sewers/ surface or ground water.
- Methods and material for containment and cleaning up:** Collect liquid in an appropriate container or absorb with an inert material such as vermiculite, dry sand, or earth; DO NOT use combustible materials. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation..Place in a chemical waste container.

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7 HANDLING AND STORAGE

Handling Precautions: Avoid contact with eyes, skin, or clothing. Consider normal working hygiene.

Storage Requirements: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Containers may be hazardous when empty since residue liquid may be present

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use mechanical (general) ventilation for storage areas.

Personal Protective Equipment: Chemical resistant gloves; Chemical safety glasses; No personal respiratory protective equipment normally required. In case of vapor formation or aerosols use an organic vapor respirator with dust, mist, and fume filters; Impervious clothing.

Exposure Limits:

CAS NO.	COMPONENT	Exposure Limit
25322-68-3	Poyethylene glycol	10 mg/m3 TWA



General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with eyes and skin.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Red	Odor:	Mild
Physical State:	Liquid	Solubility:	Soluble in water
Spec Grav./Density:	0.86	Flash Point:	> 93 °C (> 199 °F) (ASTM D-93)
Viscosity:	Kinematic at 37.8 °C (100 °F): 5.8 cSts (ASTM D455)	Vapor Density:	No data available
Boiling Point:	230 °C (446 °F)	Auto-Ignition Temp:	No data available
Vapor Pressure:	No data available	UFL/LFL:	No data available
pH:	Not determined		
Evaporation Rate:	Not determined		

10 STABILITY AND REACTIVITY



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Reactivity:	No dangerous reaction under normal use.
Chemical Stability:	Product is stable under normal conditions.
Conditions to Avoid identification:	Elevated temperatures
Materials to Avoid identification:	Strong Acids; Strong Bases Strong Oxidizing Agents.
Hazardous Decomposition:	No dangerous decomposition products known
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Risk of serious damage to eyes.
Irritating to skin.

Acute oral toxicity: LD/50 (Rat) estimated >3000 mg/kg
Acute dermal toxicity: LD/50 (Rabbit) estimated >2000 mg/kg
Acute inhalation toxicity: 64742-47-8 LC50: >0.5 mg/l
LC50 Rat (1 hour): > 24.1 mg/l

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Additional toxicological information:

92257-31-3 2-Naphthalenol, 1-[2-[4-(2-phenyldiazenyl)phenyl]diazenyl]-, ar-heptyl ar',ar''-Me derivs. shows the following dangers according to internally approved calculation methods for preparations:

: Carcinogenic Status:

Contains an o-Toluidine-based azo dye. Metabolic studies on some Azo-dyes, following prolonged skin or oral cavity contact, have detected reduction of azo bonds to aromatic amines. This product, therefore, could potentially metabolize to o-toluidine and o-aminoazotoluene upon prolonged skin or oral cavity contact. o-Toluidine and o-aminoazotoluene have been identified as animal carcinogens.

: Reproductive effects:

May affect reproductive system. Contains: a version of 2-Naphthalenol,1-[[4-(phenylazo)phenyl]azo]-,arheptyl ar',ar''-me derivatives. A reproductive screening study in rats with some versions of 2-Naphthalenol,1-[[4-(phenylazo)phenyl]azo]-,ar-heptyl ar',ar''-me derivatives produced adverse effects on reproduction [ovarian atrophy; reduced litter size; reduced pup weight with no apparent abnormal morphology of the surviving pups] at 20 and 80 mg/kg/day. The relevance of these findings for humans is uncertain, but may be predictive of the potential to cause harm.

12 ECOLOGICAL INFORMATION

Ecotoxicity

84133-50-6 Secondary alcohol ethoxylates : LC50/96h: 3.5 - 4.9 mg/l (Fish)
EC50/48h: 3.1 mg/l (daphnia)

64742-47-8 Distillates, petroleum, hydrotreated: Not toxic to aquatic organisms (fish, daphnia, algae) up to water solubility

Persistency and degradability



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Readily biodegradable.

Bioaccumulative potential

No data available

Mobility in soil

No data available

13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local, state and federal regulations

Empty containers may retain product residue (liquid and/or vapor) and can be dangerous.

14 TRANSPORT INFORMATION

DOT, IATA, IMDG

Not regulated

15 REGULATORY INFORMATION

Toxic Substances Control Act, TSCA: All components listed

SARA 302: No chemicals in this product are subject to reporting requirements of SARA Title III, Section 302

SARA 304 Emergency release notification: Not regulated.

SARA 311/312 Hazards: Immediate (acute) health hazard

SARA 313: This product does not contain a chemical listed at or above de minimis concentration

CERCLA Reportable Quantity: None

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

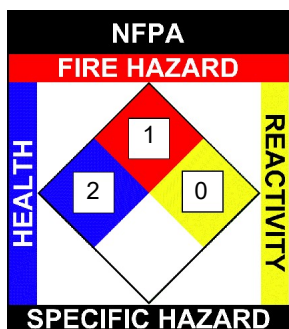
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

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

16 OTHER INFORMATION

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NFPA: Health = 2, Fire = 1, Reactivity = 0, Specific Hazard = n/a



This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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