

## DP-50

### 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** DP-50  
**SDS Number:** DP-50  
**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

**Australian Distributor Information:**

Russell Fraser Sales Pty Ltd  
 10/1-11 Burns Road  
 Heathcote, NSW 2233  
 02 9545 4422  
[dfs@rfsales.com.au](mailto:dfs@rfsales.com.au)  
[rfsales.com.au](http://rfsales.com.au)

**Emergency telephone number:**

ChemTel 1-800-255-3924 in U.S.A, Canada, Puerto Rico and US Virgin Islands; Emergency Only Contact Australia: 000  
 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
- Health, Reproductive toxicity, 2
- Health, Specific target organ toxicity - Repeated exposure, 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
- H361 - Suspected of damaging fertility or the unborn child - 2-Naphthalenol, 1-[2-[4-(2-phenyldiazenyl)phenyl]diazenyl]-, ar-heptyl ar',ar''-Me derivs. None of the ingredients are listed as carcinogenic by IARC, NTP or OSHA-Ca
- H373 - May cause damage to organs through prolonged or repeated exposure - 2-Naphthalenol, 1-[2-[4-(2-phenyldiazenyl)phenyl]diazenyl]-, ar-heptyl ar',ar''-Me derivs.

**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.



## DP-50

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	%	Chemical Name:
84133-50-6	25-50%	Alcohols, C12-14-secondary, ethoxylated
64742-47-8	25-50%	Distillates (petroleum), hydrotreated light
64742-52-5	10-25%	Distillates (petroleum), hydrotreated heavy naphthenic
25322-68-3	<3%	Polyethylene glycols
64742-53-6	<2%	Distillates (petroleum), hydrotreated light naphthenic
92257-31-3	<2%	2-Naphthalenol, 1-[2-[4-(2-phenyldiazenyl)phenyl]diazenyl]-, ar-heptyl ar',ar"-Me derivs.

#### 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)

### 4 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.

### 5 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

### 6 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**



## DP-50

**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.

### 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	Polyethylene glycol	10 mg/m <sup>3</sup> TWA
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	5mg/m <sup>3</sup> 10 hours TWA Mist 10 mg/m <sup>3</sup> 15 minutes STEL Mist



**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

<b>Appearance:</b>	Red	<b>Odor:</b>	Mild
<b>Physical State:</b>	Liquid	<b>Solubility:</b>	Soluble in water
<b>Spec Grav./Density:</b>	0.86	<b>Flash Point:</b>	> 93 °C (> 199 °F) (ASTM D-93)
<b>Viscosity:</b>	Kinematic at 37.8 °C (100 °F): 5.8 cSts (ASTM D455)		



## DP-50

<b>Boiling Point:</b>	230 °C (446 °F)	<b>Vapor Density:</b>	No data available
<b>Vapor Pressure:</b>	No data available	<b>Auto-Ignition Temp:</b>	No data available
<b>pH:</b>	Not determined	<b>UFL/LFL:</b>	No data available
<b>Evaporation Rate:</b>	Not determined		

## 10

## STABILITY AND REACTIVITY

<b>Reactivity:</b>	No dangerous reaction under normal use.
<b>Chemical Stability:</b>	Product is stable under normal conditions.
<b>Conditions to Avoid Identification:</b>	Elevated temperatures
<b>Materials to Avoid Identification:</b>	Strong Acids; Strong Bases Strong Oxidizing Agents.
<b>Hazardous Decomposition:</b>	No dangerous decomposition products known
<b>Hazardous Polymerization:</b>	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**



## DP-50

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

### Persistence and degradability

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.

**Safe Drinking Water Act:** Not regulated.

**Waste Classification:** This product does not meet RCRA's characteristic definition of ignitibility, corrosivity, or reactivity and is not a listed waste nor listed in 40CFR 261.33

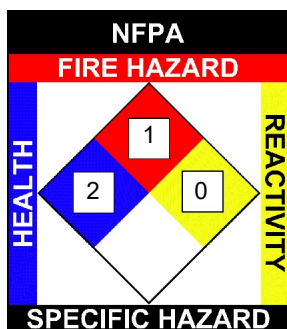
## 16 OTHER INFORMATION

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## DP-50

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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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