

## KO-17 Spray Can

### 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** KO-17 Spray Can  
**SDS Number:** KO-17 SC  
**Revision Date:** 6/14/2022  
**Product Use:** NDT Inspection Visple Penetrant, Methods A nd C

**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, Serious Eye Damage/Eye Irritation, 1
- Physical, Flammable Aerosols, 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:**

- H318 - Causes serious eye damage
- H222 - Extremely flammable aerosol
- H229 - Pressurized container: may burst if heated
- 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 ( state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)- 2-Naphthalenol, 1-[2-[4-(2-phenyldiazenyl)phenyl]diazenyl]-, ar-heptyl ar',ar''-Me derivs.

**GHS Precautionary Statements:**

- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 - Wash ... thoroughly after handling.
- P271 - Use only outdoors or in a well-ventilated area.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P281 - Use personal protective equipment as required.
- P301 + P312 - IF SWALLOWED: Call a POISON CENTER/ doctor/...if you feel unwell.
- P302 + P352 - IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.
- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.



## KO-17 Spray Can

Continue rinsing.  
P308 + P311 - IF exposed or concerned: Call a POISON CENTER/doctor/...  
P370 + P378 - In case of fire: Use dry chemical, alcohol resistant foam or dry sand to extinguish.  
P403 + P235 - Store in a well-ventilated place. Keep cool.  
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

| CAS#       | Chemical Ingredients:<br>% Chemical Name:   |
|------------|---|
| 68476-86-8 | 40-50% Propane/ Isobutane   |
| 84133-50-6 | 10-30% Alcohols, C12-14-secondary, ethoxylated  |
| 64742-53-6 | <3% Distillates (petroleum), hydrotreated light naphthenic                                    |
| 92257-31-3 | <3% 2-Naphthalenol, 1-[2-[4-(2-phenyldiazenyl)phenyl]diazenyl]-, ar-heptyl ar',ar"-Me derivs. |

### 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. 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), liquid  
**Flash Point Method:** ASTM D-56  
**Autoignition Temp:** Not determined  
**Lower Explosive Limit:** Propellant: 1.8% (vol.) Gas in air  
**UEL:** Propellant: 9.5%(vol.) gas in air  
**Suitable extinguishing agents:** Alcohol resistant foam, dry chemical, carbon dioxide

**Special hazards arising from the substance or mixture:** Spray can under pressure. Carbon monoxide and carbon dioxide

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

**Unsuitable extinguishing media:** High volume water jet

**Further information:** Do not allow run-off from fire-fighting to enter drains or water courses. Use a water spray to cool fully closed containers.

### 6 ACCIDENTAL RELEASE MEASURES



## KO-17 Spray Can

**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.

### 7 HANDLING AND STORAGE

**Handling Precautions:** Keep away from sources of ignition. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid contact with skin and eyes. Avoid breathing vapor or mist. Use only outdoors or in a well-ventilated area or with appropriate respiratory equipment. Do not swallow. When using do not eat,drink or smoke. (See section 8)

**Storage Requirements:** Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Keep containers upright to prevent leakage. Containers may be hazardous when empty since residue liquid may be present

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Provide adequate ventilation for work and storage areas.

**Personal Protective Equipment:** Chemical resistant gloves;  
Chemical safety glasses;  
General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits.  
Where concentrations are above recommended limits, use an organic vapor respirator with dust, mist, and fume filters;  
Impervious clothing.

**Exposure Limits:**

| CAS NO.    | COMPONENT      | TLV(STEL)   | ACGIH    |
|------------|----------------|-------------|----------|
| 68476-86-8 | Propane/butane | 1000 ppm    | OSHA PEL |
|            |                | TWA 1000ppm |          |

**Personal Protective Equipment:** Chemical resistant gloves;  
Chemical safety glasses;  
General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits, use an organic vapor respirator with dust, mist, and fume filters;  
Impervious clothing



**KO-17 Spray Can**



**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Do not inhale gases / fumes / aerosols.  
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 Liquid   | <b>Odor:</b>               | Liquid - Mild                                    |
| <b>Physical State:</b>     | Liquid in a spray can under pressure                       | <b>Solubility:</b>         | Soluble in water                                 |
| <b>Spec Grav./Density:</b> | Liquid - 0.89  | <b>Flash Point:</b>        | > 93 °C (> 199 °F) (ASTM D-93), Liquid           |
| <b>Viscosity:</b>          | Kinematic at 37.8 °C (100 °F): 30 cSts (ASTM D455), liquid | <b>Vapor Density:</b>      | > 1 @ 20 - 25 °C (68 - 77 °F) (Air = 1.0) Liquid |
| <b>Boiling Point:</b>      | 240°C (464°F), Liquid                                      | <b>Auto-Ignition Temp:</b> | Not determined                                   |
| <b>Vapor Pressure:</b>     | < 0.1 mmHg @ 20 °C (68 °F) Liquid                          | <b>UFL/LFL:</b>            | No data available                                |
| <b>pH:</b>                 | Not determined   |                            |  |
| <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:</b>      | Elevated temperatures                                     |
| <b>Materials to Avoid:</b>       | Strong Acids;<br>Strong Bases<br>Strong Oxidizing Agents. |
| <b>Hazardous Decomposition:</b>  | Carbon oxides, sulphur oxides                             |
| <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 >2000 mg/kg  
Acute dermal toxicity: LD/50 (Rabbit) estimated >2000 mg/kg

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:  
The product shows the following dangers according to manufacturer approved calculation methods for preparations:

Carcinogenic Status:



## KO-17 Spray Can

Contains Naphthalene. Naphthalene is classified as carcinogenic by IARC (Group 2B) and NTP (Group 2-Reasonably anticipated). 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.

STOT - single exposure: No data available

STOT - repeated exposure: No data available

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)

### Persistency 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

UN1950, aerosols, flammable, 2.1

15

## REGULATORY INFORMATION

**TSCA** All components are on the Inventory list

### US federal regulations

#### CERCLA Hazardous Substance List (40 CFR 302.4)

This material does not contain any components with a CERCLA RQ.

### SARA 311/312 Hazard classes

Immediate Hazard - Yes



## KO-17 Spray Can

Delayed Hazard - No  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

### SARA 302 Extremely hazardous substance

Not listed.

### SARA 313 (TRI reporting)

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels.

### Other federal regulations

#### 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.

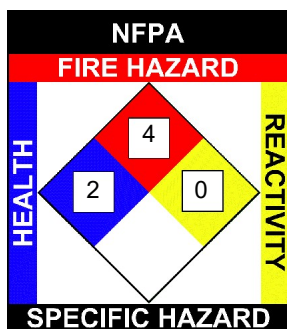
### California Prop 65

This material does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65.

16

### OTHER INFORMATION

NFPA: Health = 2, Fire = 4, 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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