



VELTEK ASSOCIATES, INC.

DECON-CYCLE (0.8% DILUTION AFTER MIXING)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/16/2018

Revision date: 04/17/2018

Supersedes: 04/16/2018

Version: 1.1

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : DECON-CYCLE (0.8% DILUTION AFTER MIXING)
Product code : SDS VEL-134

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Disinfectant/Sanitizer

1.3. Supplier

Veltek Associates, Inc.
15 Lee Blvd
Malvern, PA 19355-1234 USA
Telephone: +1 610-644-8335 - Fax: +1 610-644-8336
E-mail: vai@sterile.com

In Canada distributed by:
Canada Clean Room (CCR)
200 Terence Matthews
Kanata, ONT K2M 2C6, Canada
Telephone: 888-595-8070

1.4. Emergency telephone number

Emergency number : CARECHEM 24: 1-215-207-0061
1-866-928-0789 (toll free)
Canada: 1-800-579-7421 (toll free)
Mexico: +52-55-5004-8763

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Hazardous to the aquatic environment - Chronic H411 Toxic to aquatic life with long lasting effects
Hazard Category 2
Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US) :



Hazard statements (GHS-US) : H411 - Toxic to aquatic life with long lasting effects
Precautionary statements (GHS-US) : P273 - Avoid release to the environment.
P391 - Collect spillage.
P501 - Dispose of contents/container to an authorized waste collection point

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

DECON-CYCLE (0.8% DILUTION AFTER MIXING)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Name | Product identifier | % | GHS-US classification |
|--|----------------------|-------------|--|
| 2-methylpentane-2,4-diol (hexylene glycol) | (CAS-No.) 107-41-5 | 0.08 - 0.25 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 |
| Biphenyl-2-ol (ortho-phenylphenol) | (CAS-No.) 90-43-7 | 0.04 - 0.08 | Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Chlorophene (ortho-benzyl-para-chlorophenol) | (CAS-No.) 120-32-1 | 0.04 - 0.08 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351 Repr. 2, H361 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Disodium oxybis[decylbenzenesulphonate] | (CAS-No.) 70146-13-3 | 0.01 - 0.04 | Eye Dam. 1, H318 |

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove person to fresh air and keep at rest in a position comfortable for breathing. If symptoms develop obtain medical attention.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If symptoms develop, obtain medical attention.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms develop, obtain medical attention.
- First-aid measures after ingestion : Do NOT induce vomiting. Do not give an unconscious person anything to drink. Wash out mouth with water and give 100-200 ml of water to drink. If symptoms develop, obtain medical attention.

4.2. Most important symptoms and effects (acute and delayed)

- Potential Adverse human health effects and symptoms : Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

- Explosion hazard : Containers may rupture when heated.
- Reactivity : Stable under recommended handling and storage conditions (see section 7).

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus when in close proximity to fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources. Ensure adequate ventilation.

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate area. Evacuate unnecessary personnel.

DECON-CYCLE (0.8% DILUTION AFTER MIXING)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection. Use chemically protective clothing.
Emergency procedures : Ventilate area. Avoid inhalation of vapors. Avoid contact with eyes, skin and clothing.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if large amounts of the product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. Avoid inhalation of vapors. Avoid contact with skin, eyes and clothing.
Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in original container. Keep container tightly closed. Store in a well-ventilated place. Keep cool.
Incompatible materials : Oxidizing agents. Reducing agents. Strong acids.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| 2-methylpentane-2,4-diol (hexylene glycol) (107-41-5) | | |
|---|----------------------|-----------------|
| ACGIH | Local name | Hexylene glycol |
| ACGIH | ACGIH TWA (ppm) | 25 ppm |
| ACGIH | ACGIH STEL (mg/m³) | 10 mg/m³ |
| ACGIH | ACGIH STEL (ppm) | 50 ppm |
| ACGIH | Remark (ACGIH) | Eye & URT irr |
| ACGIH | Regulatory reference | ACGIH 2017 |

8.2. Appropriate engineering controls

- Appropriate engineering controls : Provide adequate general and local exhaust ventilation.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear suitable gloves resistant to chemical penetration. Gloves should be removed and replaced if there are any signs of degradation or breakthrough. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact

Respiratory protection:

Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment.

DECON-CYCLE (0.8% DILUTION AFTER MIXING)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------------------|
| Physical state | : Liquid |
| Appearance | : Clear. |
| Color | : Amber |
| Odor | : Alcohol |
| Odor threshold | : No data available |
| pH | : 2.2 - 3 Concentrate |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : $\approx 100^{\circ}\text{C}$ |
| Flash point | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : Not applicable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : ≈ 1 (Water = 1) |
| Solubility | : Water: Miscible |
| Log Pow | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : Not explosive. |
| Oxidizing properties | : Not oxidizing. |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7).

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Under fire conditions closed containers may rupture or explode.

10.4. Conditions to avoid

Extremely high or low temperatures. Direct sunlight.

10.5. Incompatible materials

Oxidizing agents. Reducing agents. Strong acids.

10.6. Hazardous decomposition products

Fire may produce irritating, corrosive and/or toxic gases. Carbon monoxide. Carbon dioxide. Chlorine. Hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|----------------|------------------|
| Acute toxicity | : Not classified |
|----------------|------------------|

DECON-CYCLE (0.8% DILUTION AFTER MIXING)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2-methylpentane-2,4-diol (hexylene glycol) (107-41-5)

| | |
|----------------------------|----------------------|
| LD50 oral rat | > 2000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 inhalation rat (mg/l) | > 60 ml/m³ - 8 Hours |

Biphenyl-2-ol (ortho-phenylphenol) (90-43-7)

| | |
|----------------------------|--------------------|
| LD50 oral rat | 2733 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| LC50 inhalation rat (mg/l) | > 36 mg/m³ 4 Hours |

Clorofene (ortho-benzyl-para-chlorophenol) (120-32-1)

| | |
|---------------|------------|
| LD50 oral rat | 1700 mg/kg |
|---------------|------------|

| | |
|-----------------------------------|---|
| Skin corrosion/irritation | : Not classified pH: 2.2 - 3 Concentrate |
| Serious eye damage/irritation | : Not classified pH: 2.2 - 3 Concentrate |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |

Biphenyl-2-ol (ortho-phenylphenol) (90-43-7)

| | |
|------------|----------------------|
| IARC group | 3 - Not classifiable |
|------------|----------------------|

| | |
|--|------------------|
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity – single exposure | : Not classified |

| | |
|--|------------------|
| Specific target organ toxicity – repeated exposure | : Not classified |
|--|------------------|

| | |
|-------------------|------------------|
| Aspiration hazard | : Not classified |
|-------------------|------------------|

| | |
|---|--|
| Potential Adverse human health effects and symptoms | : Not expected to present a significant hazard under anticipated conditions of normal use. |
|---|--|

SECTION 12: Ecological information

12.1. Toxicity

| | |
|-----------------|--|
| Ecology - water | : Toxic to aquatic life with long lasting effects. |
|-----------------|--|

2-methylpentane-2,4-diol (hexylene glycol) (107-41-5)

| | |
|--------------|---|
| LC50 fish | 10000 mg/l 96 Hours - Lepomis macrochirus |
| EC50 Daphnia | 2700 - 3700 mg/l 48 Hours - Daphnia magna |

Biphenyl-2-ol (ortho-phenylphenol) (90-43-7)

| | |
|--------------------------------|--|
| LC50 fish | 2.74 mg/l 96 Hours - Lepomis macrochirus |
| EC50 other aquatic organisms 1 | 1.5 mg/l 48 Hours - crustacea |

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

DECON-CYCLE (0.8% DILUTION AFTER MIXING)

| | |
|---------------------------|---------------------------|
| Bioaccumulative potential | No information available. |
|---------------------------|---------------------------|

12.4. Mobility in soil

DECON-CYCLE (0.8% DILUTION AFTER MIXING)

| | |
|----------------|----------------------|
| Ecology - soil | Miscible with water. |
|----------------|----------------------|

12.5. Other adverse effects

DECON-CYCLE (0.8% DILUTION AFTER MIXING)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | |
|------------------------------|---------------------------------------|
| Effect on the global warming | : No known effects from this product. |
| GWPmix comment | : No known effects from this product. |

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

| | |
|--------------------------------|--|
| Waste treatment methods | : Dispose of this material and its container at hazardous or special waste collection point. |
| Waste disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. |
| Additional information | : Handle empty containers with care. |
| Ecology - waste materials | : Avoid release to the environment. |

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

| | |
|-------------------------------|---|
| Dangerous for the environment | : Yes |
| Other information | : No supplementary information available. |
| Special transport precautions | : Not applicable - This dilution of product is an on-site dilution in water by the user according to product label directions. It is not supplied nor transported in commerce at this dilution. See SDS DCY-98-01 for hazards of undiluted product. |

Transportation of Dangerous Goods

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

2-methylpentane-2,4-diol (hexylene glycol) (107-41-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Biphenyl-2-ol (ortho-phenylphenol) (90-43-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

Clorofene (ortho-benzyl-para-chlorophenol) (120-32-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Disodium oxybis[decylbenzenesulphonate] (70146-13-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

DECON-CYCLE (0.8% DILUTION AFTER MIXING)

Safety Data Sheet

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15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

| Biphenyl-2-ol (ortho-phenylphenol) (90-43-7) | | | | | |
|---|---|---|---|----------------------------------|-------------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) | Maximum allowable dose level (MADL) |
| Yes | No | No | No | | |

2-methylpentane-2,4-diol (hexylene glycol) (107-41-5)

U.S. - New Jersey - Right to Know Hazardous Substance List

Biphenyl-2-ol (ortho-phenylphenol) (90-43-7)

U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Revision date : 04/17/2018

Other information : This chemical is a pesticide product registered by the United States Environmental Protection Agency (211-62-68959) and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is KEEP OUT OF REACH OF CHILDREN DANGER PELIGRO. The pesticide label also includes other important information, including directions for use. Canada DIN #02377136. In Canada, this product is a drug product registered with Health Canada.

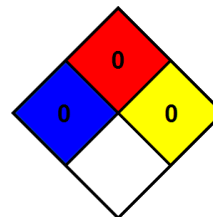
Full text of H-phrases:

| | |
|------|---|
| H302 | Harmful if swallowed |
| 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 |
| H335 | May cause respiratory irritation |
| H351 | Suspected of causing cancer |
| H361 | Suspected of damaging fertility or the unborn child |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H411 | Toxic to aquatic life with long lasting effects |

NFPA health hazard : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



DECON-CYCLE (0.8% DILUTION AFTER MIXING)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hazard Rating

- Health : 0 Minimal Hazard - No significant risk to health
- Flammability : 0 Minimal Hazard - Materials that will not burn
- Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
- Personal protection : B
- B - Safety glasses, Gloves

Indication of changes:

| Section | Changed item | Change | Comments |
|---------|----------------------------------|----------|----------|
| 9 | Physical and chemical properties | Modified | |
| 11 | Toxicological information | Modified | |

SDS US (GHS HazCom 2012)

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