

Safety Data Sheet

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

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SECTION 1: Identification

VELTEK ASSOCIATES, INC.

Identification 1.1

Product form : Mixture

DECON-CYCLE®. Also known as: DECON-CYCLE® II Product name

Product code SDS DCY-98-01

Recommended use and restrictions on use

Use of the substance/mixture : Disinfectant

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

Classification of the substance or mixture

GHS US classification

Flammable liquids Category 3

Skin corrosion/irritation Category 1C

Serious eye damage/eye irritation Category 1

Skin sensitization, Category 1 Carcinogenicity Category 2

Reproductive toxicity Category 2

Specific target organ toxicity (repeated exposure) Category 2

Hazardous to the aquatic environment - Acute Hazard Category

Hazardous to the aquatic environment - Chronic Hazard

Category 1

Full text of H statements : see section 16

H226 Flammable liquid and vapor

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H317 May cause an allergic skin reaction

H351 Suspected of causing cancer

H361 Suspected of damaging fertility or the unborn child

H373 May cause damage to organs (kidneys) through prolonged or repeated

exposure

H401 Toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)











Signal word (GHS US) : Danger

Hazard statements (GHS US) H226 - Flammable liquid and vapor

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction H318 - Causes serious eye damage

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Precautionary statements (GHS US)

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H351 - Suspected of causing cancer

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure

H401 - Toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.

P240 - Ground/Bond container and receiving equipment

P241 - Use explosion-proof electrical, lighting, ventilating equipment

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P260 - Do not breathe vapors.

P264 - Wash hands thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

P280 - Wear eye protection; protective gloves; protective clothing.

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

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. Continue rinsing

P310 - Immediately call a doctor

P363 - Wash contaminated clothing before reuse.

P370+P378 - In case of fire: Use foam, Dry powder, carbon dioxide (CO2), Water spray to

extinguish.

P391 - Collect spillage.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

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

Name	Product identifier	%	GHS US classification
2-methylpentane-2,4-diol (hexylene glycol)	(CAS-No.) 107-41-5	10 - < 30	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Citric acid	(CAS-No.) 77-92-9	10 - < 30	Eye Irrit. 2A, H319
Isopropanol	(CAS-No.) 67-63-0	7 - < 13	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Biphenyl-2-ol (ortho-phenylphenol)	(CAS-No.) 90-43-7	5 - < 10	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Clorofene (ortho-benzyl-para-chlorophenol)	(CAS-No.) 120-32-1	5 - < 10	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 (M = 100)
Dodecylbenzenesulfonic acid	(CAS-No.) 27176-87-0	1 - < 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318
2,2',2"-nitrilotriethanol	(CAS-No.) 102-71-6	1 - < 5	Not classified
Benzenesulfonic acid, C10-16-alkyl derivs.	(CAS-No.) 68584-22-5	1 - < 5	Eye Irrit. 2A, H319

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*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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. Obtain immediate medical attention.

First-aid measures after eye contact : Rinse immediately with plenty of water (for at least 15 minutes). Ensure that folded skin of

eyelids is thoroughly washed with water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain immediate medical attention.

Continue rinsing. Obtain immediate 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. Obtain immediate medical attention.

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

Symptoms/effects after inhalation : At high concentrations, the vapors can be irritating to the respiratory system.

Symptoms/effects after skin contact : Causes burns. May cause an allergic skin reaction. Skin rash/inflammation.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Severe irritation or burns to the mouth, throat, esophagus, and stomach.

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

Fire hazard : Flammable liquid and vapor. Vapors are heavier than air and may travel considerable distance

to an ignition source and flash back to source of vapors.

Explosion hazard : Containers may rupture when heated.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed

containers. 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

6.1.1. For non-emergency personnel

Emergency procedures : Remove all sources of ignition. Ventilate area. Do not breathe vapors. Do not get in eyes, on

skin, or on clothing. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Use chemically protective clothing.

Emergency procedures : Remove ignition sources. Use only non-sparking tools. Take precautionary measures against

static discharge. Ventilate area. Do not breathe vapors. Do not get in eyes, on skin, or on clothing.

6.2. Environmental precautions

Collect spillage. 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 : Use non-sparking tools. 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.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Provide good ventilation in process area to prevent formation of vapor. Do not breathe vapors. Do not get in eyes, on skin, or on 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 immediately all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. 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

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect material from direct sunlight. Store in original container. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

Incompatible materials

: Oxidizing agents. Reducing agents. Strong alkalis. Strong acids.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-methylpentane-2,4-diol (hexylene glycol) (107-41-5)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Hexylene glycol	
ACGIH TWA (ppm)	25 ppm	
ACGIH STEL (mg/m³)	10 mg/m³	
ACGIH STEL (ppm)	50 ppm	
Remark (ACGIH)	Eye & URT irr	
Regulatory reference	ACGIH 2019	
Isopropanol (67-63-0)		
USA - ACGIH - Occupational Exposure Lin	mits	
Local name	2-Propanol	
ACGIH TWA (ppm)	200 ppm	
ACGIH STEL (ppm)	400 ppm	
Remark (ACGIH)	Eye & URT irr; CNS impair	
Regulatory reference	ACGIH 2019	
USA - ACGIH - Biological Exposure Indice	es	
Local name	2-PROPANOL	
Biological Exposure Indices (BEI)	40 mg/l Parameter: Acetone - Medium: urine - Sampling time: End of shift at end of workweek - Notations: B, Ns	
Regulatory reference	ACGIH 2019	
USA - OSHA - Occupational Exposure Lin	nits	
Local name	Isopropyl alcohol	
OSHA PEL (TWA) (mg/m³)	980 mg/m³	
OSHA PEL (TWA) (ppm)	400 ppm	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
2,2',2"-nitrilotriethanol (102-71-6)		
USA - ACGIH - Occupational Exposure Lin	mits	
Local name	Triethanolamine	
ACGIH TWA (mg/m³)	5 mg/m³	
Remark (ACGIH)	Eye & skin irr	
Regulatory reference	ACGIH 2019	

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8.2. Appropriate engineering controls

Appropriate engineering controls

: Provide adequate ventilation, including appropriate local extraction, to ensure that occupational exposure limits are not exceeded. Provide good ventilation in process area to prevent formation of vapor. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

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:

In case of insufficient ventilation, wear suitable respiratory equipment.

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 availablepH: 1.5 - 2.5 ConcentrateMelting point: No data availableFreezing point: No data available

Boiling point : $100 \, ^{\circ}\text{C}$ Flash point : $41.6 \, ^{\circ}\text{C}$

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 : 1.092 + -0.01 (25 °C) (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 : Vapors may form explosive mixture with air.

Oxidizing properties : Not oxidizing.

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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

Keep away from open flames, hot surfaces and sources of ignition. Extremely high or low temperatures. Direct sunlight.

10.5. Incompatible materials

Oxidizing agents. Reducing agents. Strong alkalis. 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 (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

2-methylpentane-2,4-diol (hexylene glycol) (10	07-41-5)	
LD50 oral, rat	> 2000 mg/kg	
LD50 dermal, rabbit	> 2000 mg/kg	
LC50 inhalation, rat (mg/l)	> 60 ml/m ³ - 8 Hours	
Isopropanol (67-63-0)		
LD50 oral, rat	5840 mg/kg	
LD50 dermal, rat	16.4 ml/kg	
LC50 inhalation, rat (ppm)	> 10000 ppm - 6 Hours	
Citric acid (77-92-9)		
LD50 oral, rat	5400 mg/kg	
LD50 dermal, rat	> 2000 mg/kg	
Biphenyl-2-ol (ortho-phenylphenol) (90-43-7)		
LD50 oral, rat	2733 mg/kg	
LD50 dermal, rabbit	> 2000 mg/kg	
LC50 inhalation, rat (mg/l)	> 949 mg/m³ - 1 Hours	
Clorofene (ortho-benzyl-para-chlorophenol) (120-32-1)		
LD50 oral, rat	4147 mg/kg (OECD 401 method)	
LD50 dermal, rat	> 2000 mg/kg (OECD 402 method)	
LC50 inhalation, rat (mg/l)	2.5 mg/l - 4 Hours (OECD 403 method)	
Dodecylbenzenesulfonic acid (27176-87-0)		
LD50 oral, rat	650 mg/kg	
LD50 dermal, rat	> 2000 mg/kg (OECD 402 method)	
LC50 inhalation, rat (mg/l)	310 mg/m³ - 4 Hours	
2,2',2"-nitrilotriethanol (102-71-6)		
LD50 oral, rat	6400 mg/kg (OECD 401 method)	
LD50 dermal, rat	> 2000 mg/kg (OECD 402 method)	
Skin corrosion/irritation	Causes severe skin burns and eye damage.	

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pH: 1.5 - 2.5 Concentrate

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Serious eye damage/irritation : Causes serious eye damage.

pH: 1.5 - 2.5 Concentrate

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

|--|

IARC group 3 - Not classifiable

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

IARC group 3 - Not classifiable

2,2',2"-nitrilotriethanol (102-71-6)

IARC group 3 - Not classifiable

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

Specific target organ toxicity - single exposure : Not classified

Isopropanol (67-63-0)

Specific target organ toxicity – single exposure May cause drowsiness or dizziness.

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

Specific target organ toxicity – single exposure May cause respiratory irritation.

Specific target organ toxicity - repeated

: May cause damage to organs (kidneys) through prolonged or repeated exposure.

exposure

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

Specific target organ toxicity – repeated exposure May cause damage to organs (kidneys) through prolonged or repeated exposure.

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

Symptoms/effects after inhalation : At high concentrations, the vapors can be irritating to the respiratory system. Symptoms/effects after skin contact : Causes burns. May cause an allergic skin reaction. Skin rash/inflammation.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Severe irritation or burns to the mouth, throat, esophagus, and stomach.

SECTION 12: Ecological information

12.1. Toxicity

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	
Isopropanol (67-63-0)		
LC50 fish	9640 mg/l - 96 Hours (Pimephales promelas)	
EC50 Daphnia	> 10000 mg/l - 48 Hours (Daphnia magna)	
NOEC chronic algae	1800 mg/l - 7 days (Scenedesmus quadricauda)	
Citric acid (77-92-9)		
LC50 fish	440 - 760 mg/l 48 Hours - Leuciscus idus melanotus	
EC50 Daphnia	1535 mg/l 24 Hours - Daphnia magna	
Biphenyl-2-ol (ortho-phenylphenol) (90-43-7)		
LC50 fish	4.5 mg/l - 96 Hours (Danio rerio)	
EC50 Daphnia	2.7 mg/l - 48 Hours (Daphnia magna, Mobility)	
ErC50 (algae)	3.57 mg/l - 72 Hours (Pseudokirchneriella subcapitata, Growth rate), (OECD 201 method)	
NOEC (chronic)	0.009 mg/l - 21 days (Daphnia magna, reproduction), (OECD 211 method)	
NOEC chronic fish	0.036 mg/l - 21 days (Pimephales promelas, reproduction)	

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Biphenyl-2-ol (ortho-phenylphenol) (90-4	13-7)	
NOEC chronic algae	0.468 mg/l - 72 Hours (Pseudokirchneriella subcapitata, Growth rate), (OECD 201 method)	
Clorofene (ortho-benzyl-para-chloropher	nol) (120-32-1)	
LC50 fish	1.5 mg/l - 96 Hours (Danio rerio)	
EC50 Daphnia	0.655 mg/l - 48 Hours (Daphnia magna)(OECD 202 method)	
EC50 other aquatic organisms 1	0.089 mg/l - 96 Hours (Americamysis bahia)(EPA OPPTS 850.1035)	
ErC50 (algae)	0.435 mg/l - 72 Hours (Navicula pelliculosa, Growth rate)(OCSPP 850.4500)	
ErC50 (other aquatic plants)	0.155 mg/l - 96 Hours (Skeletonema costatum, Growth rate)((OECD 201 method)	
NOEC chronic fish	< 0.0095 mg/l - 30 days (Danio rerio) (OECD 210 method)	
NOEC chronic crustacea	0.0067 mg/l - 21 days (Daphia magna, reproduction)	
Dodecylbenzenesulfonic acid (27176-87-0)		
LC50 fish	8.929 mg/l - 96 Hours (freshwater fish)(QSAR, EPI Suite v4.1/ECOSAR v1.00)	
EC50 Daphnia	3.5 mg/l - 48 Hours (Daphnia magna)	
LC50 fish 2	10.046 mg/l - 96 Hours (marine water fish)(QSAR, EPI Suite v4.1/ECOSAR v1.00)	
EC50 Daphnia 2	4.58 mg/l - 48 Hours (Tisbe bulbisetosa)	
ErC50 (algae)	65.4 mg/l - 72 Hours (Pseudokirchneriella subcapitata, Growth rate)(OECD 201 method)	
NOEC chronic fish	1.21 mg/l - 30 days (freshwater fish)(QSAR, EPI Suite v4.1/ECOSAR v1.00)	
2,2',2"-nitrilotriethanol (102-71-6)		
LC50 fish	11800 mg/l - 96 Hours (Pimephales promelas)(APHA)	
EC50 Daphnia	609.88 mg/l - 96 Hours (Ceriodaphnia dubia)(ASTM E1192)	
NOEC (acute)	16 mg/l 21 days - Daphnia magna	
NOEC chronic crustacea	16 mg/l - 21 days (Daphnia magna)	

12.2. Persistence and degradability

DECON-CYCLE®. Also known as: DECON-CYCLE® II			
Persistence and degradability	Readily biodegradable.		
Biodegradation	74 % - 28 days		
Isopropanol (67-63-0)	Isopropanol (67-63-0)		
Persistence and degradability	Expected to be readily biodegradable.		
Biphenyl-2-ol (ortho-phenylphenol) (90-43-7)			
Persistence and degradability	Readily biodegradable.		
Biodegradation	70.8 - 75.7 % - 28 days (OECD 301B method)		
Clorofene (ortho-benzyl-para-chlorophenol) (120-32-1)			
Persistence and degradability	Inherently biodegradable. Not readily biodegradable.		
Dodecylbenzenesulfonic acid (27176-87-0)			
Persistence and degradability	Readily biodegradable.		

12.3. Bioaccumulative potential

DECON-CYCLE®. Also known as: DECON-CYCLE® II			
Bioaccumulative potential	No information available.		
Isopropanol (67-63-0)	Isopropanol (67-63-0)		
Bioconcentration factor (BCF REACH)	3		
Log Pow	0.05		
Biphenyl-2-ol (ortho-phenylphenol) (90-43-7)			
BCF fish 1	21.7 (Danio rerio)		
Log Pow	3.18 (22.5 °C)(OECD 107 method)		
Bioaccumulative potential	Not expected to bioaccumulate.		
Clorofene (ortho-benzyl-para-chlorophenol) (120-32-1)			
Log Pow	4.276 (25 °C)		
Bioaccumulative potential	Not expected to bioaccumulate.		
Dodecylbenzenesulfonic acid (27176-87-0)			
Bioaccumulative potential	Not expected to bioaccumulate.		

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12.4. Mobility in soil

DECON-CYCLE®. Also known as: DECON-CYCLE® II	
Ecology - soil	Miscible with water.

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

Log Koc 2.4 - 2.6 (20 °C)

12.5. Other adverse effects

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 because residual vapors are flammable. Empty containers

should be taken for recycling, recovery or waste in accordance with local regulation.

Ecology - waste materials : Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN2924 Flammable liquids, corrosive, n.o.s. (Isopropanol; Citric acid), 3 (8), III

UN-No.(DOT) : UN2924

Proper Shipping Name (DOT) : Flammable liquids, corrosive, n.o.s. (Isopropanol; Citric acid)

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT) : III - Minor Danger

Subsidiary risk (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

Hazard labels (DOT) : 3 - Flammable liquid

8 - Corrosive





Dangerous for the environment : Yes

Marine pollutant : Yes



DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 242
DOT Symbols : G

DOT Special Provisions (49 CFR 172.102) : B1, IB3, T7, TP1, TP28

DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

DOT Vessel Stowage Location : A
DOT Vessel Stowage Other : 40
Emergency Response Guide (ERG) Number : 132

Other information : No supplementary information available.

Special transport precautions : No special precautions required.

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Transportation of Dangerous Goods

Transport document description : UN2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Isopropanol; Citric acid), 3 (8), III

UN-No. (TDG) : UN2924

Proper Shipping Name (Transportation of

Dangerous Goods)

: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Isopropanol; Citric acid)

TDG Primary Hazard Classes : 3 - Class 3 - Flammable Liquids

Packing group : III - Minor Danger

TDG Subsidiary Classes : 8

TDG Special Provisions : 16

Explosive Limit and Limited Quantity Index : 5 L

Passenger Carrying Road Vehicle or Passenger : 5 L

Carrying Railway Vehicle Index

Transport by sea

Transport document description (IMDG) : UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Isopropanol; Citric acid), 3 (8), III,

MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

UN-No. (IMDG) : 2924

Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Isopropanol; Citric acid)

Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : III - substances presenting low danger

Subsidiary risks (IMDG) : 8 - Corrosive substances

Marine pollutant : Yes



Air transport

Transport document description (IATA) : UN 2924 Flammable liquid, corrosive, n.o.s. (Isopropanol; Citric acid), 3 (8), III,

ENVIRONMENTALLY HAZARDOUS

UN-No. (IATA) : 2924

Proper Shipping Name (IATA) : Flammable liquid, corrosive, n.o.s. (Isopropanol; Citric acid)

Class (IATA) : 3 - Flammable Liquids
Packing group (IATA) : III - Minor Danger
Subsidiary hazards (IATA) : 8 - Corrosive substances

SECTION 15: Regulatory information

15.1. US Federal regulations

DECON-CYCLE®. Also known as: DECON-CYCLE® II	
SARA Section 311/312 Hazard Classes	Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Skin corrosion or Irritation Health hazard - Serious eye damage or eye irritation Health hazard - Respiratory or skin sensitization Health hazard - Carcinogenicity Health hazard - Reproductive toxicity Health hazard - Specific target organ toxicity (single or repeated exposure)

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Isopropanol	CAS-No. 67-63-0	7 - < 13%
Biphenyl-2-ol (ortho-phenylphenol)	CAS-No. 90-43-7	5 - < 10%

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

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

Isopropanol (67-63-0)

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

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Citric acid (77-92-9)

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

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

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

Dodecylbenzenesulfonic acid (27176-87-0)

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

CERCLA RQ 1000 lb

2,2',2"-nitrilotriethanol (102-71-6)

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

Benzenesulfonic acid, C10-16-alkyl derivs. (68584-22-5)

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

15.2. International regulations

CANADA

Benzenesulfonic acid, C10-16-alkyl derivs. (68584-22-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

National regulations

No additional information available

15.3. US State regulations



This product can expose you to Biphenyl-2-ol (ortho-phenylphenol), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
2-methylpentane-2,4-diol (hexylene glycol)(107-41-5)	U.S New Jersey - Right to Know Hazardous Substance List
Isopropanol(67-63-0)	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
Dodecylbenzenesulfonic acid(27176-87-0)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
2,2',2"-nitrilotriethanol(102-71-6)	U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Revision date : 11/22/2019

Data sources : US OSHA HazCom (GHS) 25 May 2012.

Other information : This chemical is a pesticide product registered by the United States Environmental Protection

Agency and is subject to certain labeling requirements under federal pesticide law (FIFRA). These requirements differ from the classification criteria and hazard information required for

safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

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Full text of H-phrases:

Highly flammable liquid and vapor		
Flammable liquid and vapor		
Harmful if swallowed		
Causes severe skin burns and eye damage		
Causes skin irritation		
May cause an allergic skin reaction		
Causes serious eye damage		
Causes serious eye irritation		
Harmful if inhaled		
May cause respiratory irritation		
May cause drowsiness or dizziness		
Suspected of causing cancer		
Suspected of damaging fertility or the unborn child		
May cause damage to organs through prolonged or repeated exposure		
Very toxic to aquatic life		
Toxic to aquatic life		
Very toxic to aquatic life with long lasting effects		

Abbreviations and acronyms:

ATE (Acute Toxicity Estimate)		
CAS (Chemical Abstracts Service) number		
DNEL (Derived No Effect Level)		
EC50 (Effective Concentration 50%)		
IARC (International Agency for Research on Cancer)		
IATA (International Air Transport Association)		
IMDG (International Maritime Dangerous Goods Code)		
IMO (International Maritime Organisation)		
LC50 (Lethal Concentration 50%)		
LD50 (Lethal Dose 50%)		
OECD (Organisation for Economic Co-operation and Development)		
PBT (Persistent, Bioaccumulative and Toxic)		
PNEC (Predicted No Effect Concentration)		
STEL (Short Term Exposure Limit)		
TSCA (Toxic Substances Control Act) (US)		
TWA (Time Weighted Average)		
UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)		
vPvB (very Persistent and very Bioaccumulative)		

NFPA health hazard

: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard

: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

NFPA reactivity

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



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Hazard Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

Flammability : 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient

temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F

but below 200 F. (Classes II & IIIA)

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 :

G - Safety glasses, Gloves, Vapor respirator

Indication of changes:

Section	Changed item	Change	Comments
3	Composition/Information on	Modified	
	ingredients		

SDS US (GHS HazCom 2012)

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Veltek Associates, Inc. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Veltek Associates, Inc. accepts no liability for loss or damage resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

This SDS has been translated into the official language of the country/region in which the product is to be placed on the market. Where no official translation exists, the regulatory text is reported in English, as it appears in the relevant regulatory text.

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