

Safety Data Sheet

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

Revision date: 02/27/2020 Date of issue: 05/07/2019 Supersedes: 12/23/2019 VELTEK ASSOCIATES, INC.

SECTION 1: Identification

Identification

Product form : Mixture

Product name : DECON-CYCLE® PLUS

Product code : SDS VEL-141

Recommended use and restrictions on use

: Disinfectant Use of the substance/mixture

1.3. **Supplier**

Veltek Associates, Inc.

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In Canada distributed by: Canada Clean Room (CCR)

20 Cope Dr.

Kanata, ON K2M 2V8, Canada Telephone: (888)595-8070

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

Flammable liquids Category 3 Corrosive to metals Category 1 H290 May be corrosive to metals 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

Category 1

Hazardous to the aquatic environment - Chronic Hazard

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

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)











Version: 2.1

Signal word (GHS US) : Danger

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

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

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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

Precautionary statements (GHS US) : 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.

P234 - Keep only in original container. 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 Water spray, alcohol resistant foam, carbon dioxide (CO2),

Dry powder to extinguish.

P390 - Absorb spillage to prevent material-damage.

P391 - Collect spillage.

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

P405 - Store locked up.

P406 - Store in corrosive resistant container with a resistant inner liner.

P501 - Dispose of contents/container to an authorized waste collection point.

2.3. Other hazards which do not result in classification

Other hazards not contributing to the 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
Sulfuric acid, mono-C10-16-alkyl esters, sodium salts	(CAS-No.) 68585-47-7	14 - 22	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318
2-methylpentane-2,4-diol (hexylene glycol)	(CAS-No.) 107-41-5	13 - 17	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Citric acid	(CAS-No.) 77-92-9	2.5 - 17	Eye Irrit. 2A, H319
Benzenesulfonic acid, C10-16-alkyl derivs.	(CAS-No.) 68584-22-5	0 - 16	Eye Irrit. 2A, H319
Isopropanol	(CAS-No.) 67-63-0	7 - 13	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Clorofene (ortho-benzyl-para-chlorophenol)	(CAS-No.) 120-32-1	11	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)

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Name	Product identifier	%	GHS US classification
Biphenyl-2-ol (ortho-phenylphenol)	(CAS-No.) 90-43-7	11	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Etidronic acid	(CAS-No.) 2809-21-4	0 - 6	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

^{*}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.

Immediately remove contaminated clothing or footwear. Rinse skin with plenty of water or First-aid measures after skin contact

shower. Obtain immediate medical attention.

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

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

First-aid measures after ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Give 100 - 200 ml of water to drink. Obtain immediate medical attention.

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

Potential Adverse human health effects and symptoms

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Skin rash/inflammation. At high concentrations, the vapors can be irritating to the respiratory system. Severe irritation or burns to the mouth, throat, esophagus, and stomach. Suspected of causing cancer. Suspected of damaging fertility. May cause damage to organs (kidneys) through prolonged or repeated exposure.

Immediate medical attention and special treatment, if necessary

Treat symptomatically. Doctor: gastric lavage is not recommended.

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Alcohol-resistant foam. Carbon dioxide. Dry powder.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapour.

Explosion hazard : Vapors may form explosive mixture with air.

Hazardous decomposition products in case of : Fire may produce irritating, corrosive and/or toxic gases. Phenolic compounds. Carbon

fire monoxide. Carbon dioxide. Chlorine. Sulphur oxides. Phosphine oxides.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions Keep upwind. Exercise caution when fighting any chemical fire. On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers exposed to heat with a water spray. Do not allow run-off from fire fighting to enter drains or water courses.

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

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.

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Emergency procedures

 Remove all sources of ignition. 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. Avoid release to the environment. 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

For containment

: Stop leak, if possible without risk. Dam up the liquid spill.

Methods for cleaning up

: Absorb with earth, sand or other non-combustible material and transfer to containers for later

disposal. Store in corrosive resistant container with a resistant inner liner.

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

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Do not handle until all safety precautions have been read and understood. 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

: Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

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 or corrosive resistant and/or lined container. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

Incompatible materials

: Strong oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Isopropanol (67-63-0)		
USA - ACGIH - Occupational Exposure Limits	S	
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 Indices		
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 Limits		
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-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	

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Remark (ACGIH)	Eye & URT irr
Regulatory reference	ACGIH 2019

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide good ventilation in process area to prevent formation of vapor. Ensure exposure is

below occupational exposure limits (where available). Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Environmental exposure controls : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

treams

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure. Wear suitable protective clothing.

Hand protection:

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

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:

Physical state

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

: Liquid

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance : Clear. Color : Light amber Odor : Slight Phenol Odor threshold : No data available рΗ 1 – 3 (Concentrate) Melting point : Not applicable. Freezing point No data available : 212 °F (100 °C) Boiling point 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 : $1.064 - 1.096 (68 \,^{\circ}\text{F})(\text{Water} = 1)$ Solubility : Water: completely 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

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Explosion limits : No data available

Explosive properties : Not explosive. Vapors may form explosive mixture with air.

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). Highly flammable liquid and vapor.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep out of direct sunlight.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Fire may produce irritating, corrosive and/or toxic gases. Carbon monoxide. Carbon dioxide. Phenolic compounds. Chlorine. Sulphur oxides. Phosphine oxides.

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

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

Clorofene (ortho-benzyl-para-chlorophenol) (120-32-1)	
LD50 oral, rat	4147 mg/kg
LD50 dermal, rat	> 2000 mg/kg
LC50 inhalation, rat (mg/l)	2.5 mg/l - 4 Hours

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

Citric acid (77-92-9)	
LD50 oral, rat	5400 mg/kg
LD50 dermal, rat	> 2000 mg/kg

Etidronic acid (2809-21-4)	
LD50 oral, rat	1878 mg/kg body weight (calculated value)
LD50 dermal, rabbit	> 3505 mg/kg body weight (calculated value)

Skin corrosion/irritation : Causes severe skin burns.

pH: 1 – 3 (Concentrate)

Serious eye damage/irritation : Causes serious eye damage.

pH: 1 – 3 (Concentrate)

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

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

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Isopropanol (67-63-0)	
3 - Not classifiable	
Biphenyl-2-ol (ortho-phenylphenol) (90-43-7)	
3 - Not classifiable	

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

STOT-single exposure : Not classified

Isopropanol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.

Biphenyl-2-ol (ortho-phenylphenol) (90-43-7)	
STOT-single exposure	May cause respiratory irritation.

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

Clorofene (ortho-benzyl-para-chlorophenol) (120-32-1)	
STOT-repeated exposure	May cause damage to organs (kidneys) through prolonged or repeated exposure.

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

Potential Adverse human health effects and symptoms

: Causes severe skin burns and eye damage. May cause an allergic skin reaction. Skin rash/inflammation. At high concentrations, the vapors can be irritating to the respiratory system. Severe irritation or burns to the mouth, throat, esophagus, and stomach. Suspected of causing cancer. Suspected of damaging fertility. May cause damage to organs (kidneys) through prolonged or repeated exposure.

SECTION 12: Ecological information

12.1. Toxicity

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)	
Clorofene (ortho-benzyl-para-chlorophenol) (120-32-1)		
LC50 fish	1.5 mg/l - 96 Hours (Danio rerio)	
EC50 Daphnia	0.655 mg/l - 48 Hours (Daphnia magna)	
LC50 fish 2	0.33 mg/l - 96 Hours (Lepomis macrochirus)	
EC50 Daphnia 2	0.286 mg/l - 48 Hours (Crassostrea virginica)	
NOEC (chronic)	0.0067 mg/l - 21 days (Daphna magna, reproduction)	
NOEC chronic fish	< 0.0095 mg/l - 30 days (Danio rerio)	
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)	
NOEC chronic algae	0.468 mg/l - 72 Hours (Pseudokirchneriella subcapitata, Growth rate), (OECD 201 method)	
2-methylpentane-2,4-diol (hexylene glycol) (107-41-5)		
LC50 fish	8510 mg/l - 96 Hours (Gambusia affinis)	
EC50 Daphnia	5410 mg/l - 48 Hours (Daphnia magna)	
Additional ecotox information	NOEC, algae: 429 mg/l (72 Hours, Pseudokirchneriella subcapitata, Growth rate/Biomass, (OECD 201 method))	

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Citric acid (77-92-9)

DECON-CYCLE® PLUS

Ecology - soil

LC50 fish

EC50 Daphnia

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LOJO Dapinila	1999 mg/1 24 Hours - Daphilla magna		
Etidronic acid (2809-21-4)			
LC50 fish	195 mg/l - 96 Hours (Oncorhynchus mykiss)		
EC50 Daphnia	527 mg/l - 48 Hours (Daphnia magna, Mobility), (OECD 202 method)		
LC50 fish 2	2180 mg/l - 96 Hours (Cyprinodon variegatus), (OECD 203 method)		
EC50 Daphnia 2	1770 mg/l - 96 Hours (Palaemonetes pugio)		
NOEC (chronic)	6.75 mg/l - 28 days (Daphnia magna)		
NOEC chronic crustacea	6.75 mg/l - 28 days (Daphnia magna, mortality/reproduction)		
.2. Persistence and degradability	one mg. To any (Culphina magna, morally production)		
DECON-CYCLE® PLUS Persistence and degradability	No information available.		
	NO IIIIOIII available.		
Isopropanol (67-63-0)			
Persistence and degradability	Expected to be readily biodegradable.		
Clorofene (ortho-benzyl-para-chlorophen	iol) (<u>1</u> 20-32-1)		
Persistence and degradability	Inherently biodegradable.		
Biphenyl-2-ol (ortho-phenylphenol) (90-4	3-7)		
Persistence and degradability	Readily biodegradable.		
Biodegradation	70.8 – 75.7 % - 28 days (OECD 301B method)		
2-methylpentane-2,4-diol (hexylene glyco	ol) (107-41-5)		
Persistence and degradability	Readily biodegradable.		
Biodegradation	81 % - 28 days (OECD 301F method)		
<u> </u>			
Etidronic acid (2809-21-4)			
Persistence and degradability	Not readily biodegradable.		
Biochemical oxygen demand (BOD)	15.1 mg/l - 5 days (OECD 301D method)		
Chemical oxygen demand (COD)	0.066 g O2/l (60% Aqueous solution), (OECD 301D method)		
.3. Bioaccumulative potential			
DECON-CYCLE® PLUS			
Bioaccumulative potential	No information available.		
Isopropanol (67-63-0)			
Bioconcentration factor (BCF REACH)	3		
Log Pow	0.05		
Clorofene (ortho-benzyl-para-chlorophen	nal) (120-32-1)		
Log Pow	4.276 (25 °C)		
<u> </u>			
Biphenyl-2-ol (ortho-phenylphenol) (90-4	·		
BCF fish 1	21.7 (Danio rerio)		
Log Pow	3.18 (22.5 °C)(OECD 107 method)		
Bioaccumulative potential	Not expected to bioaccumulate.		
2-methylpentane-2,4-diol (hexylene glyco			
Bioaccumulative potential	Docad on the processor portition coefficient accumulation in ergonisms is not expected		
	Based on the n-octanorwater partition coefficient accumulation in organisms is not expected		
·	Based on the n-octation water partition coefficient accumulation in organisms is not expected		
Etidronic acid (2809-21-4)			
Etidronic acid (2809-21-4) BCF fish 1	< 7 Cyprinus carpio, Whole body (Solution concentration: 0.06 mg/L)		
Etidronic acid (2809-21-4) BCF fish 1 BCF fish 2	< 2 Cyprinus carpio, Whole body (Solution concentration: 0.6 mg/L)		
Etidronic acid (2809-21-4) BCF fish 1	< 7 Cyprinus carpio, Whole body (Solution concentration: 0.06 mg/L)		

440 – 760 mg/l 48 Hours - Leuciscus idus melanotus

1535 mg/l 24 Hours - Daphnia magna

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Miscible with water.

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Clorofene (ortho-benzyl-para-chlorophenol) (120-32-1)		
Ecology - soil	Moderately soluble in water.	
Biphenyl-2-ol (ortho-phenylphenol) (90-43-7)		
Log Koc	2.4 – 2.6 (20 °C)	
2-methylpentane-2,4-diol (hexylene glycol) (107-41-5)		
Log Koc	0.001 (20 °C, QSAR)	
Ecology - soil	Not expected to adsorb to soil.	
Etidronic acid (2809-21-4)		

12.5. Other adverse effects

Log Koc

Ecology - soil

Other information : Avoid release to the environment.

4.22

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Empty containers

should be taken to an approved waste handling site for recycling or disposal.

Additional information : Handle empty containers with care because residual vapors are flammable.

Adsorbs into the soil.

Ecology - waste materials : Avoid release to the environment.

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

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

Other information : No supplementary information available.

Transportation of Dangerous Goods

Transport document description : UN2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Isopropanol; Etidronic 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® PLUS		
SARA Section 311/312 Hazard Classes	Physical hazard - Flammable (gases, aerosols, liquids, or solids) Physical hazard - Corrosive to metals 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	11%

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Isopropanol (67-63-0)

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

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

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

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

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

Sulfuric acid, mono-C10-16-alkyl esters, sodium salts (68585-47-7)

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

Citric acid (77-92-9)

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

Etidronic acid (2809-21-4)

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

15.2. International regulations

CANADA

Isopropanol (67-63-0)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

Sulfuric acid, mono-C10-16-alkyl esters, sodium salts (68585-47-7)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

Etidronic acid (2809-21-4)

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
Isopropanol(67-63-0)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Biphenyl-2-ol (ortho-phenylphenol)(90-43-7)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
2-methylpentane-2,4-diol (hexylene glycol)(107-41-5)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

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SECTION 16: Other information

Revision date : 02/27/2020

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). US
EPA Registration number: 68959-12. These requirements differ from the classification criteria

and hazard information required for safety data sheets (SDS), and for workplace labels of non-

pesticide chemicals.

Full text of H-phrases:

able liquid and vapor quid and vapor sive to metals allowed	
sive to metals	
allowed	
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	
aquatic life with long lasting effects	

Abbreviations and acronyms:

ACGIH (American Conference of Government Industrial Hygienists)	
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)	
OSHA (Occupational Safety and Health Administration) (US)	
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)	

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NFPA health hazard : 3 - Materials that, under emergency conditions, can cause

serious or permanent injury.

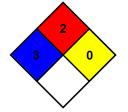
NEPA fire hazard : 2 - Materials that must be mo

 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.



Hazard Rating

Flammability

Physical

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

given

* - Chronic (long-term) health effects may result from repeated overexposure

: 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)

 4 Severe Hazard - Materials that are readily capable of explosive water reaction, detonation or explosive decomposition, polymerization, or self-reaction at normal temperature and pressure.

Indication of changes:

Section	Changed item	Change	Comments
2	Hazards identification	Modified	
3	Composition/Information on ingredients	Modified	
4	First aid measures	Modified	
6	Accidental release measures	Modified	
7	Handling and storage	Modified	
10	Stability and reactivity	Modified	
11	Toxicological information	Modified	
12.	Ecological information	Modified	
13	Disposal considerations	Modified	
14	Transport information	Modified	
15	Regulatory information	Modified	
16	Other information	Modified	
16	Other information	Modified	

SDS US (GHS HazCom 2012)

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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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