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Version: 4 (Replaced 3)

## SECTION 1: IDENTIFICATION GHS Product identifier: CHRYSAL CLEAR PROFESSIONAL 1 1.1 Code: 552.xxx.xxx 1.2 Recommended use of the chemical and restrictions on use: Relevant uses: cut flower conditioner Uses advised against: All uses not specified in this section or in section 7.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party: 1.3 Chrysal Colombia S.A. Carrera 106, No. 15-25 Manzana 9 Bodega 21 Zona Franca de Bogotá - Colombia Phone .: +57(0)14046529 1.4 Emergency phone number: ChemTel Inc. 1-800-255-3924 Int. +01-813-248-0585 +31 (0)35 6955827 or +31 (0)35 6955850 (during office hours: UTC+1) SECTION 2: HAZARD(S) IDENTIFICATION

# 2.1 Classification of the substance or mixture:

Product classified regardless of its extreme pH.

#### NFPA:

Health Hazards: 2 Flammability Hazards: 0 Instability Hazards: 0 Special Hazards: Non-applicable

## 29 CFR 1910.1200:

Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.

Aquatic Acute 3: Hazardous to the aquatic environment, acute hazard, Category 3, H402 Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412 Eye Irrit. 2: Eye irritation, Category 2, H319 Skin Irrit. 2: Skin irritation, Category 2, H315 Skin Sens. 1A: Sensitisation, skin, Category 1A, H317

### 2.2 Label elements:

### NFPA:



### 29 CFR 1910.1200:

Warning



#### Hazard statements:

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects Eye Irrit. 2: H319 - Causes serious eye irritation Skin Irrit. 2: H315 - Causes skin irritation Skin Sens. 1A: H317 - May cause an allergic skin reaction **Precautionary statements:** 



Date of compilation: 4/3/2020 Revised: 4/3/2020 Version: 4 (Replaced 3)

## SECTION 2: HAZARD(S) IDENTIFICATION (continued)

P261: Avoid breathing dust/fume/gas/mist/vapours/spray

P264: Wash thoroughly after use

P273: Avoid release to the environment

P280: Wear protective gloves/protective clothing/eye protection/face protection

P302+P352: IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P333+P313: If skin irritation or rash occurs: Get medical advice/attention

P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively

#### Hazards not otherwise classified (HNOC): 2.3

Non-applicable

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances:

Non-applicable

#### 3.2 Mixtures:

Chemical description: Mixture of substances

#### **Components:**

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

	Identification Chemical name/Classification		Concentration		
CAS: 77-92-9		Citric Acid	10 - <20 %		
CAS:	77-92-9	Eye Irrit. 2: H319 - Warning	10 - < 20 %		
CAC.		reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	0.1 -2 5 0/		
CAS:	55965-84-9	Acute Tox. 3: H301+H311+H331; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger	0,1 - <2,5 %		
To ob	To obtain more information on the hazards of the substances consult sections 11, 12 and 16.				

## SECTION 4: FIRST-AID MEASURES

#### 4.1 **Description of necessary measures:**

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

## By inhalation:

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

#### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

### By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as guickly as possible with the SDS of the product.

## By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

#### 4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.



Date of compilation: 4/3/2020

Version: 4 (Replaced 3)

## SECTION 4: FIRST-AID MEASURES (continued)

Exposure to isothiazolinones may cause allergic skin reaction in susceptible people. Skin reactions usually occur after 24 hours or more after exposure. Sometimes mucosal irritation and respiratory problems may occur.

#### Indication of immediate medical attention and special treatment needed, if necessary: 4.3

Revised: 4/3/2020

Non-applicable

## SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1 Suitable (and unsuitable) extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use full jet water as an extinguishing agent.

#### 5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

#### 5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

#### **Environmental precautions:** 6.2

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

#### 6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

#### **Reference to other sections:** 6.4

See sections 8 and 13

## SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

## C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.



Date of compilation: 4/3/2020

Version: 4 (Replaced 3)

## SECTION 7: HANDLING AND STORAGE (continued)

### D.- Technical recommendations to prevent environmental risks

Revised: 4/3/2020

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

## 7.2 Conditions for safe storage, including any incompatibilities:

#### A.- Technical measures for storage

Minimum Temp.:	41 °F
Maximum Temp.:	86 ºF
Maximum time:	24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

#### 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

There are no occupational exposure limits for the substances contained in the product

### 8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
Mandatory hand protection	NON-disposable chemical protective gloves (NBR), Breakthrough Time 480 min, thickness 0.12 mm	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. Use gloves in accordance with manufacturer 's use limitations and OSHA standard 1910.138 (29CFR)

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application

## D.- Ocular and facial protection

Pictogram	PPE	Remarks
Mandatory face	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR)

E.- Bodily protection

Pictogram	PPE	Remarks
	Work clothing	Replace before any evidence of deterioration.



Date of compilation: 4/3/2020

Revised: 4/3/2020

Version: 4 (Replaced 3)

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

#### F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	<b>•</b> +	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

The information in this section contains generic advice and guidance. Select proper emergency measures based on a risk assessment of the actual exposure situation.

### **Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

## National volatile organic compound emission standards (40 CFR Part 59):

 V.O.C. (Subpart C - Consumer):
 0 % weight

 V.O.C. (Coatings) at 68 °F:
 0 kg/m³ (0 g/L)

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:	
Physical state at 68 °F:	Liquid
Appearance:	Colorless
Color:	Not available
Odor:	Odorless
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	212 °F
Vapour pressure at 68 °F:	2350 Pa
Vapour pressure at 122 °F:	12381.01 Pa (12.38 kPa)
Evaporation rate at 68 °F:	Non-applicable *
Product description:	
Density at 68 °F:	1105 kg/m³
Relative density at 68 °F:	Non-applicable *
Dynamic viscosity at 68 °F:	Non-applicable *
Kinematic viscosity at 68 °F:	Non-applicable *
Kinematic viscosity at 104 °F:	Non-applicable *
Concentration:	Non-applicable *
pH:	1.3
Vapour density at 68 °F:	Non-applicable *
Partition coefficient n-octanol/water 68 °F:	Non-applicable *
Solubility in water at 68 °F:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
*Not relevant due to the nature of the product, not providing	information property of its hazards.



Date of compilation: 4/3/2020	Revised: 4/3/2020	Version: 4 (Replaced 3)			
SECTION 9: PHYSICAL AN	D CHEMICAL PROPERTI	ES (continued)			
Flammability:	Flammability:				
Flash Point:		Non Flammable (>199.4 °F)			
Flammability (solid, gas	):	Non-applicable *			
Autoignition temperatur	e:	Non-applicable *			
Lower flammability limit		Non-applicable *			
Upper flammability limit		Non-applicable *			
Explosive:					
Lower explosive limit:		Non-applicable *			
Upper explosive limit:		Non-applicable *			
9.2 Other information:					
Surface tension at 68 °	F:	Non-applicable *			
Refraction index:		Non-applicable *			
*Not relevant due to the nate	ure of the product, not providing in	formation property of its hazards.			

## SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

#### 10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

### **10.3** Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

#### **10.4** Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
	-			

## 10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Not applicable	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

#### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

## Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
  - Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):



Date of compilation: 4/3/2020 Revised: 4/3/2020 Version: 4 (Replaced 3) SECTION 11: TOXICOLOGICAL INFORMATION (continued) - Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3. Corrosivity/Irritability: Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3. C- Contact with the skin and the eyes (acute effect): - Contact with the skin: Produces skin inflammation. - Contact with the eyes: Produces eye damage after contact. D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction): - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3. IARC: Non-applicable Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. E- Sensitizing effects: - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3. Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis. F- Specific target organ toxicity (STOT) - single exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. G- Specific target organ toxicity (STOT)-repeated exposure: Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. H- Aspiration hazard: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. Other information: Non-applicable Specific toxicology information on the substances:

Identification	Acut	e toxicity	Genus
Citric Acid	LD50 oral	5400 mg/kg	Mouse
CAS: 77-92-9	LD50 dermal	2001 mg/kg	Rat
	LC50 inhalation	>5 mg/L (4 h)	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	LD50 oral	100 mg/kg	Rat
CAS: 55965-84-9	LD50 dermal	300 mg/kg (ATEi)	Rat
	LC50 inhalation	0.5 mg/L (4 h) (ATEi)	

## SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

### **12.1** Ecotoxicity (aquatic and terrestrial, where available):

Identification	Acute toxicity		Species	Genus
Citric Acid	LC50	1516 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 77-92-9		160 mg/L (48 h)	N/A	Crustacean
	EC50	Non-applicable		



#### Date of compilation: 4/3/2020

Revised: 4/3/2020

Version: 4 (Replaced 3)

# SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Species	Genus
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2- methyl-2H-isothiazol-3-one (3:1)	LC50	0.28 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 55965-84-9	EC50	0.16 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	0.018 mg/L (72 h)	Selenastrum capricornutum	Algae

### 12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
Citric Acid	BOD5	Non-applicable	Concentration	10 mg/L
CAS: 77-92-9	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	97 %

### 12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential		
Citric Acid	BCF	3	
CAS: 77-92-9	Pow Log	-1.55	
	Potential	Low	

## 12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Citric Acid	Кос	Non-applicable	Henry	Non-applicable
CAS: 77-92-9	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	2.045E-2 N/m (663.67 ºF)	Moist soil	Non-applicable

## 12.5 Results of PBT and vPvB assessment:

Non-applicable

### 12.6 Other adverse effects:

Not described

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Disposal methods:

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See epigraph 6.2.

# Regulations related to waste management:

Legislation related to waste management:

40 CFR Part 261- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

### SECTION 14: TRANSPORT INFORMATION

This product is not regulated for transport.

## SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

- CONTINUED ON NEXT PAGE -



Date of compilation: 4/3/2020	Revised: 4/3/2020	Version: 4 (Replaced 3)
SECTION 15: REGULATORY	INFORMATION (contin	nued)
California Proposition 65 The Toxic Substances Cou Massachusetts RTK - Sub New Jersey Worker and C New York RTK - Substanc Pennsylvania Worker and CANADA-Domestic Substa isothiazol-3-one (3:1) CANADA-Non-Domestic S NTP (National Toxicology Minnesota - Hazardous su Rhode Island - Hazardous OSHA Specifically Regulat	(the Safe Drinking Water a ntrol Act (TSCA) : Citric Aci stance List: Non-applicable Community Right-to-Know ace list: Non-applicable Community Right-to-Know ances List (DSL): Citric Aci bubstances List (NDSL): Non- program): Non-applicable ubstances ERTK: Non-appli s substances RTK: Non-applited Substances (29 CFR 19	Act: Non-applicable v Law: Non-applicable d ; reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H- n-applicable icable
Specific provisions in t	erms of protecting peop	ple or the environment:
		in this safety data sheet as data used in a risk evaluation of the local sk prevention measures for the manipulation, use, storage and disposal of this
Relevant instructions	for use:	
IMPROVED		

#### **Other legislation:**

The Toxic Substances Control Act (TSCA) Occupational Safety and Health Standards (1910 Subpart Z - Toxic and Hazardous Substances)

## SECTION 16: OTHER INFORMATION

#### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to \$1910.1200 - Safety data sheets

Texts of the legislative phrases mentioned in section 2:

H315: Causes skin irritation

H319: Causes serious eye irritation

H412: Harmful to aquatic life with long lasting effects

H317: May cause an allergic skin reaction

H402: Harmful to aquatic life

### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

#### 29 CFR 1910.1200:

Acute Tox. 3: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled

Eye Irrit. 2: H319 - Causes serious eye irritation

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage

Skin Sens. 1: H317 - May cause an allergic skin reaction

## Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

## Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:



Date of compilation: 4/3/2020 Revised:	4/3/2020 Version: 4 (Replaced 3)
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## SECTION 16: OTHER INFORMATION (continued)

IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 CL50: Lethal Concentration 50 EC50: Effective concentration 50 Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon

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