

# Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, December 2011)

# **SECTION 1: Identification**

### 1.1. Product identifier

3M Process Colour 990-04, Yellow

#### **Product Identification Numbers** 75-0300-8073-5

### 1.2. Recommended use and restrictions on use

#### Recommended use

Screen printing, Professional printing ink for use in traffic safety systems.

For Industrial or Professional use only.

#### **1.3. Supplier's details**

Address:	3M Australia - Building A, 1 Rivett Road, North Ryde NSW 2113
Telephone:	136 136
E Mail:	productinfo.au@mmm.com
Website:	www.3m.com.au

**1.4. Emergency telephone number** EMERGENCY: 1800 097 146 (Australia only)

## **SECTION 2: Hazard identification**

This product is classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011, in accordance with applicable State and Territory legislation.

Refer to Section 14 of this Safety Data Sheets for product Dangerous Goods Classification.

### 2.1. Classification of the substance or mixture

Flammable liquid: Category 3. Skin Corrosion/Irritation: Category 2. Serious Eye Damage/Irritation: Category 1. Specific Target Organ Toxicity (single exposure): Category 2. Specific Target Organ Toxicity (repeated exposure): Category 2. Specific Target Organ Toxicity (single exposure): Category 3

### 2.2. Label elements

The label elements below were prepared in accordance with the Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, December 2011). This information may be different from the actual product label.

## Signal word

Danger

## Symbols

Flame |Corrosion |Health Hazard |

## Pictograms



Hazard statements H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H371	May cause damage to organs: sensory organs.
H373	May cause damage to organs through prolonged or repeated exposure: nervous system.

## **Precautionary statements**

Prevention:	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
	No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280A	Wear eye/face protection.
Response:	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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
1909 + 1991 + 1990	lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTRE or doctor/physician.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

P370 + P378	In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.	
<b>Storage:</b> P403 + P235 P405	Store in a well-ventilated place. Keep cool. Store locked up.	
<b>Disposal:</b> P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.	

## 2.3. Other assigned/identified product hazards

None known.

### 2.4. Other hazards which do not result in classification

May be harmful if swallowed. May be harmful in contact with skin. May be harmful if inhaled. Harmful to aquatic life with long lasting effects.

# **SECTION 3: Composition/information on ingredients**

This material is a mixture.

Ingredient	CAS Nbr	% by Weight
Cyclohexanone	108-94-1	15 - 40
Dipropylene glycol methyl ether acetate	88917-22-0	15 - 40
1-Methoxy-2-propyl acetate	108-65-6	10 - 30
Vinyl acetate-vinyl alcohol-vinyl chloride	Trade Secret	10 - 30
polymer		
Alkyd resin 3261	Trade Secret	3 - 7
Xylene	1330-20-7	3 - 7
Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-,	106276-80-6	3 - 7
methyl ester, reaction products with p-		
phenylenediamine and sodium methoxide		
2,4-Dihydroxybenzophenone	131-56-6	0.5 - 1.5
Ethylbenzene	100-41-4	< 1
Bis (2, 2, 6, 6-tetramethyl-4-piperidinyl)	52829-07-9	< 0.6
sebacate		
Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-	104810-48-2	< 0.4
benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-		
hydroxyphenyl]-1-oxopropyl]-@-hydroxy-		
Polymeric benzotriazole	104810-47-1	< 0.4
2,3-Epoxypropyl neodecanoate	26761-45-5	< 0.3
Calcium 2-ethylhexanoate	136-51-6	< 0.2
Phosphonic acid, diphenyl ester	4712-55-4	< 0.2
Zinc 2-ethylhexanoate	136-53-8	< 0.2

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

#### Skin contact

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

#### Eye contact

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

#### If swallowed

Rinse mouth. If you feel unwell, get medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness). Target organ effects. See Section 11 for additional details. Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

#### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

# **SECTION 5: Fire-fighting measures**

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

### 5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

### Hazardous Decomposition or By-Products

<u>Substance</u>	<u>Condition</u>
Hydrocarbons.	During combustion.
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Hydrogen Chloride	During combustion.

### 5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. When fire fighting conditions are severe and total thermal decomposition of the product is possible, wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, tunic and trousers (leggings), bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

### Hazchem Code: •3Y

## **SECTION 6: Accidental release measures**

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

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. WARNING ! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### **6.2.** Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

### 6.3. Methods and material for containment and cleaning up

Contain spill. Cover spill area with a fire-extinguishing foam. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (eg. gloves, respirators...) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapour accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

## 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from acids. Store away from oxidising agents.

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

## **Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Ethylbenzene	100-41-4	ACGIH	TWA:20 ppm	A3: Confirmed animal
				carcin., Ototoxicant
Ethylbenzene	100-41-4	Australia OELs	TWA(8 hours):434	
			mg/m3(100 ppm);STEL(15	
			minutes):543 mg/m3(125 ppm)	
1-Methoxy-2-propyl acetate	108-65-6	AIHA	TWA:50 ppm	
1-Methoxy-2-propyl acetate	108-65-6	Australia OELs	TWA(8 hours):274 mg/m3(50	SKIN
			ppm);STEL(15 minutes):548	
			mg/m3(100 ppm)	
Cyclohexanone	108-94-1	ACGIH	TWA:20 ppm;STEL:50 ppm	A3: Confirmed animal
				carcinogen. Danger of
				cutaneous absorption.
Cyclohexanone	108-94-1	Australia OELs	TWA(8 hours):100 mg/m3(25	SKIN
			ppm)	

Xylene	1330-20-7	ACGIH	TWA:20 ppm;STEL:150 ppm	A4: Not class. as human
				carcin
Xylene	1330-20-7	Australia OELs	TWA(8 hours):350 mg/m3(80	
			ppm);STEL(15 minutes):655	
			mg/m3(150 ppm)	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

Australia OELs : Australia. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling Sen: Sensitiser

Sk: Absorption through the skin may be a significant source of exposure.

### **8.2. Exposure controls**

### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment.

### 8.2.2. Personal protective equipment (PPE)

### **Eye/face protection**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Full face shield.

Indirect vented goggles.

Select and use eye protection in accordance with AS/NZS 1336. Eye protection should comply with the performance specifications of AS/NZS 1337.

### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended: Polymer laminate

if this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Select and use gloves according to AS/NZ 2161.

### **Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours

For questions about suitability for a specific application, consult with your respirator manufacturer. Select and use respirators according to AS/NZS 1715. Respirators should comply with AS/NZS 1716 performance specifications. For information about respirators, call 3M on 1800 024 464.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

. Information on basic physical and chemical properties	
Physical state	Liquid.
Specific Physical Form:	Liquid.
Colour	Yellow
Odour	Solvent
Odour threshold	No data available.
рН	Not applicable.
Melting point/Freezing point	Not applicable.
Boiling point/Initial boiling point/Boiling range	>=138.3 °C
Flash point	42.8 °C [Test Method: Tagliabue closed cup]
Evaporation rate	<=1 [ <i>Ref Std</i> :BUOAC=1]
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	1 %
Flammable Limits(UEL)	12.75 %
Vapour pressure	<=895.9 Pa [@ 20 °C ]
Vapor Density and/or Relative Vapor Density	>=3.4 [ <i>Ref Std</i> :AIR=1]
Density	0.97 g/ml [@ 20 °C ]
Relative density	0.97 [ <i>Ref Std</i> :WATER=1]
Water solubility	Negligible
Solubility- non-water	No data available.
Partition coefficient: n-octanol/water	No data available.
Autoignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity/Kinematic Viscosity	1,300 - 1,500 mPa-s
Volatile organic compounds (VOC)	700 - 800 g/l [Details: As Packaged.]
Percent volatile	65 - 80 % weight
VOC less H2O & exempt solvents	No data available.
Molecular weight	No data available.
	1

# **SECTION 10: Stability and reactivity**

## **10.1 Reactivity**

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

## 10.2 Chemical stability

Stable.

## 10.3. Conditions to avoid

Sparks and/or flames.

# 10.4. Possibility of hazardous reactions

Hazardous polymerisation will not occur.

## **10.5 Incompatible materials**

Strong oxidising agents.

# **10.6 Hazardous decomposition products**

<u>Substance</u>

None known.

### **Condition**

# **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

**11.1 Information on Toxicological effects** 

Signs and Symptoms of Exposure

### Based on test data and/or information on the components, this material may produce the following health effects:

### Inhalation

May be harmful if inhaled. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

### Skin contact

May be harmful in contact with skin.

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

### Eye contact

Corrosive (eye burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

## Ingestion

May be harmful if swallowed.

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

## **Additional Health Effects:**

### Single exposure may cause target organ effects:

Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

## Prolonged or repeated exposure may cause target organ effects:

Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Neurological effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and changes in blood pressure and heart rate.

## **Reproductive/Developmental Toxicity:**

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

### Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

## **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

## Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >2,000 -
			=5,000 mg/kg
Overall product	Inhalation-Vapour(4		No data available; calculated ATE $>20$ -
	hr)		=50 mg/l
Overall product	Ingestion		No data available; calculated ATE >2,000 - =5,000 mg/kg
Cyclohexanone	Dermal	Rabbit	LD50 >794, <3160 mg/kg
Cyclohexanone	Inhalation-Vapour (4 hours)	Rat	LC50 > 6.2 mg/l
Cyclohexanone	Ingestion	Rat	LD50 1,296 mg/kg
Dipropylene glycol methyl ether acetate	Dermal	Rat	LD50 > 2,000 mg/kg
Dipropylene glycol methyl ether acetate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.7 mg/l
Dipropylene glycol methyl ether acetate	Ingestion	Rat	LD50 > 5,000 mg/kg
1-Methoxy-2-propyl acetate	Dermal	Rabbit	LD50 > 5,000 mg/kg
1-Methoxy-2-propyl acetate	Inhalation-Vapour (4 hours)	Rat	LC50 > 28.8 mg/l
1-Methoxy-2-propyl acetate	Ingestion	Rat	LD50 8,532 mg/kg
Vinyl acetate-vinyl alcohol-vinyl chloride polymer	Dermal	Rabbit	LD50 > 8,000 mg/kg
Vinyl acetate-vinyl alcohol-vinyl chloride polymer	Ingestion	Rat	LD50 > 8,000 mg/kg
Benzoic acid, 2,3,4,5-tetrachloro-6- cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide	Dermal		LD50 estimated to be > 5,000 mg/kg
Benzoic acid, 2,3,4,5-tetrachloro-6- cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 1 mg/l
Benzoic acid, 2,3,4,5-tetrachloro-6- cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide	Ingestion	Rat	LD50 > 5,000 mg/kg
Alkyd resin 3261	Dermal		LD50 estimated to be > 5,000 mg/kg
Alkyd resin 3261	Ingestion		LD50 estimated to be > 5,000 mg/kg
Xylene	Dermal	Rabbit	LD50 > 4,200 mg/kg
Xylene	Inhalation-Vapour (4 hours)	Rat	LC50 29 mg/l
Xylene	Ingestion	Rat	LD50 3,523 mg/kg
2,4-Dihydroxybenzophenone	Dermal		LD50 estimated to be $> 5,000 \text{ mg/kg}$
2,4-Dihydroxybenzophenone	Ingestion	Rat	LD50 8,600 mg/kg
Ethylbenzene	Dermal	Rabbit	LD50 15,433 mg/kg
Ethylbenzene	Inhalation-Vapour (4 hours)	Rat	LC50 17.4 mg/l
Ethylbenzene	Ingestion	Rat	LD50 4,769 mg/kg
Bis (2, 2, 6, 6-tetramethyl-4- piperidinyl) sebacate	Dermal	Rat	LD50 > 3,170 mg/kg
Bis (2, 2, 6, 6-tetramethyl-4- piperidinyl) sebacate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.5 mg/l
Bis (2, 2, 6, 6-tetramethyl-4- piperidinyl) sebacate	Ingestion	Rat	LD50 3,700 mg/kg
Poly(oxy-1,2-ethanediyl), α-[3-[3- (2H- benzotriazol-2-yl)-5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1- oxopropyl]-ω-hydroxy-	Dermal	Rat	LD50 > 2,000 mg/kg

Poly(oxy-1,2-ethanediyl), α-[3-[3- (2H- benzotriazol-2-yl)-5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1- oxopropyl]-ω-hydroxy-	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.8 mg/l
Poly(oxy-1,2-ethanediyl), α-[3-[3- (2H- benzotriazol-2-yl)-5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1- oxopropyl]-ω-hydroxy-	Ingestion	Rat	LD50 > 5,000 mg/kg
Polymeric benzotriazole	Dermal	Rat	LD50 > 2,000 mg/kg
Polymeric benzotriazole	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.8 mg/l
Polymeric benzotriazole	Ingestion	Rat	LD50 > 5,000 mg/kg
2,3-Epoxypropyl neodecanoate	Dermal	Rat	LD50 > 2,000 mg/kg
2,3-Epoxypropyl neodecanoate	Ingestion	Rat	LD50 > 2,000 mg/kg
Phosphonic acid, diphenyl ester	Dermal	Rabbit	LD50 > 2,000  mg/kg
Phosphonic acid, diphenyl ester	Ingestion	Rat	LD50 600 mg/kg
Zinc 2-ethylhexanoate	Dermal		LD50 estimated to be $> 5,000 \text{ mg/kg}$
Zinc 2-ethylhexanoate	Ingestion	Rat	LD50 > 5,000 mg/kg
Calcium 2-ethylhexanoate	Dermal	Rabbit	LD50 > 5,000 mg/kg
Calcium 2-ethylhexanoate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 1.2 mg/l
Calcium 2-ethylhexanoate	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

## **Skin Corrosion/Irritation**

Name	Species	Value
Cyclohexanone	Rabbit	Irritant
Dipropylene glycol methyl ether acetate	Rabbit	No significant irritation
1-Methoxy-2-propyl acetate	Rabbit	No significant irritation
Vinyl acetate-vinyl alcohol-vinyl chloride polymer	Professional judgement	No significant irritation
Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl	Rabbit	No significant irritation
ester, reaction products with p-phenylenediamine		
and sodium methoxide		
Xylene	Rabbit	Mild irritant
2,4-Dihydroxybenzophenone	Rabbit	No significant irritation
Ethylbenzene	Rabbit	Mild irritant
Bis (2, 2, 6, 6-tetramethyl-4-piperidinyl) sebacate	Rabbit	No significant irritation
Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-	Rabbit	No significant irritation
benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-		
hydroxyphenyl]-1-oxopropyl]-ω-hydroxy-		
Polymeric benzotriazole	Rabbit	No significant irritation
2,3-Epoxypropyl neodecanoate	Rabbit	No significant irritation
Zinc 2-ethylhexanoate	Rabbit	Mild irritant
Calcium 2-ethylhexanoate	Rabbit	No significant irritation

## Serious Eye Damage/Irritation

Name	Species	Value
Cyclohexanone	In vitro data	Corrosive
Dipropylene glycol methyl ether acetate	Rabbit	No significant irritation
1-Methoxy-2-propyl acetate	Rabbit	Mild irritant
Vinyl acetate-vinyl alcohol-vinyl chloride polymer	Professional judgement	No significant irritation
Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide	Rabbit	No significant irritation
Xylene	Rabbit	Mild irritant
2,4-Dihydroxybenzophenone	Rabbit	Severe irritant

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Ethylbenzene	Rabbit	Moderate irritant
Bis (2, 2, 6, 6-tetramethyl-4-piperidinyl) sebacate	Rabbit	Corrosive
Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-	Rabbit	No significant irritation
benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-		
hydroxyphenyl]-1-oxopropyl]-ω-hydroxy-		
Polymeric benzotriazole	Rabbit	No significant irritation
2,3-Epoxypropyl neodecanoate	Rabbit	No significant irritation
Zinc 2-ethylhexanoate	Rabbit	Severe irritant
Calcium 2-ethylhexanoate	Rabbit	Corrosive

## **Skin Sensitisation**

Name	Species	Value	
Cyclohexanone	Guinea pig	Not classified	
Dipropylene glycol methyl ether acetate	Guinea pig	Not classified	
1-Methoxy-2-propyl acetate	Guinea pig	Not classified	
Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl	Human	Not classified	
ester, reaction products with p-phenylenediamine and sodium methoxide			
Ethylbenzene	Human	Not classified	
Bis (2, 2, 6, 6-tetramethyl-4-piperidinyl) sebacate	Guinea pig	Not classified	
Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-	Guinea pig	Sensitising	
benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-			
hydroxyphenyl]-1-oxopropyl]-ω-hydroxy-			
Polymeric benzotriazole	Guinea pig	Sensitising	
2,3-Epoxypropyl neodecanoate	Guinea pig	Sensitising	

### Photosensitisation

Name	Species	Value
Bis (2, 2, 6, 6-tetramethyl-4-piperidinyl) sebacate	Guinea pig	Not sensitizing

## **Respiratory Sensitisation**

For the component/components, either no data are currently available or the data are not sufficient for classification.

### Germ Cell Mutagenicity

Name	Route	Value
Cyclohexanone	In vivo	Not mutagenic
Cyclohexanone	In Vitro	Some positive data exist, but the data are not sufficient for classification
Dipropylene glycol methyl ether acetate	In Vitro	Not mutagenic
Dipropylene glycol methyl ether acetate	In vivo	Not mutagenic
1-Methoxy-2-propyl acetate	In Vitro	Not mutagenic
Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide	In Vitro	Not mutagenic
Xylene	In Vitro	Not mutagenic
Xylene	In vivo	Not mutagenic
Ethylbenzene	In vivo	Not mutagenic
Ethylbenzene In Vitro Some positive da		Some positive data exist, but the data are not sufficient for classification
Bis (2, 2, 6, 6-tetramethyl-4-piperidinyl) sebacate	In Vitro	Not mutagenic
Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H- benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4- hydroxyphenyl]-1-oxopropyl]-ω-hydroxy-	In Vitro	Not mutagenic
Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H- benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-	In vivo	Not mutagenic

hydroxyphenyl]-1-oxopropyl]-ω-hydroxy-		
Polymeric benzotriazole	In Vitro	Not mutagenic
Polymeric benzotriazole	In vivo	Not mutagenic
2,3-Epoxypropyl neodecanoate	In Vitro	Some positive data exist, but the data are not sufficient for classification
2,3-Epoxypropyl neodecanoate	In vivo	Mutagenic
Calcium 2-ethylhexanoate	In Vitro	Not mutagenic

## Carcinogenicity

Name	Route	Species	Value
Cyclohexanone	anone Ingestion Multiple animal species		Some positive data exist, but the data are not sufficient for classification
Xylene	Dermal	Rat	Not carcinogenic
Xylene	Ingestion	Multiple animal species	Not carcinogenic
Xylene	Inhalation	Human	Some positive data exist, but the data are not sufficient for classification
Ethylbenzene	Inhalation	Multiple animal species	Carcinogenic.

# **Reproductive Toxicity**

# **Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	<b>Exposure Duration</b>
Cyclohexanone	Inhalation	Not classified for	Rat	NOAEL 4	2 generation
		female reproduction	female reproduction		-
Cyclohexanone	Inhalation	Not classified for	Rat	NOAEL 2	2 generation
-		male reproduction		mg/l	-
Cyclohexanone	Ingestion	Not classified for	Mouse	LOAEL	during
2	C C	development		1,100	organogenesis
		-		mg/kg/day	
Cyclohexanone	Inhalation	Not classified for	Rat	NOAEL 2	2 generation
		development		mg/l	-
1-Methoxy-2-propyl	Ingestion	Not classified for	Rat	NOAEL	premating & during
acetate	C C	female reproduction		1,000	gestation
		-		mg/kg/day	-
1-Methoxy-2-propyl	Ingestion	Not classified for	Rat	NOAEL	premating & during
acetate	-	male reproduction		1,000	gestation
				mg/kg/day	-
1-Methoxy-2-propyl	Ingestion	Not classified for	Rat	NOAEL	premating & during
acetate	-	development		1,000	gestation
		-		mg/kg/day	-
1-Methoxy-2-propyl	Inhalation	Not classified for	Rat	NOAEL 21.6	during
acetate		development		mg/l	organogenesis
Xylene	Inhalation	Not classified for	Human	NOAEL Not	occupational
		female reproduction		available	exposure
Xylene	Ingestion	Not classified for	Mouse	NOAEL Not	during
	-	development		available	organogenesis
Xylene	Inhalation	Not classified for	Multiple animal	NOAEL Not	during gestation
		development	species	available	
Ethylbenzene	Inhalation	Not classified for	Rat	NOAEL 4.3	premating & during
5		development		mg/l	gestation
Bis (2, 2, 6, 6-	Ingestion	Not classified for	Rat	NOAEL 430	2 generation
tetramethyl-4-	C	male reproduction		mg/kg/day	C
piperidinyl) sebacate					
Bis (2, 2, 6, 6-	Ingestion	Not classified for	Rat	NOAEL 130	2 generation
tetramethyl-4-		development		mg/kg/day	-
piperidinyl) sebacate					
Bis (2, 2, 6, 6-	Ingestion	Toxic to female	Rat	NOAEL 130	2 generation

tetramethyl-4-		reproduction		mg/kg/day	
piperidinyl) sebacate		reproduction		mg/kg/udy	
Poly(oxy-1,2- ethanediyl), $\alpha$ -[3-[3- (2H- benzotriazol-2- yl)-5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1- oxopropyl]- $\omega$ -	Ingestion	Not classified for female reproduction	Rat	NOAEL 100 mg/kg/day	premating into lactation
hydroxy- Poly(oxy-1,2- ethanediyl), α-[3-[3- (2H- benzotriazol-2- yl)-5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1- oxopropyl]-ω- hydroxy-	Ingestion	Not classified for male reproduction	Rat	NOAEL 100 mg/kg/day	115 days
Poly(oxy-1,2- ethanediyl), α-[3-[3- (2H- benzotriazol-2- yl)-5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1- oxopropyl]-ω- hydroxy-	Ingestion	Not classified for development	Rat	NOAEL 2 mg/kg/day	premating into lactation
Polymeric benzotriazole	Ingestion	Not classified for female reproduction	Rat	NOAEL 100 mg/kg/day	premating into lactation
Polymeric benzotriazole	Ingestion	Not classified for male reproduction	Rat	NOAEL 100 mg/kg/day	115 days
Polymeric benzotriazole	Ingestion	Not classified for development	Rat	NOAEL 2 mg/kg/day	premating into lactation
Zinc 2- ethylhexanoate	Ingestion	Not classified for female reproduction	similar compounds	NOAEL 800 mg/kg/day	2 generation
Zinc 2- ethylhexanoate	Ingestion	Not classified for male reproduction	similar compounds	NOAEL 800 mg/kg/day	2 generation
Zinc 2- ethylhexanoate	Ingestion	Toxic to development	similar compounds	NOAEL 100 mg/kg/day	during gestation
Calcium 2- ethylhexanoate	Ingestion	Not classified for female reproduction	similar compounds	NOAEL 800 mg/kg/day	2 generation
Calcium 2- ethylhexanoate	Ingestion	Not classified for male reproduction	similar compounds	NOAEL 800 mg/kg/day	2 generation
Calcium 2- ethylhexanoate	Ingestion	Toxic to development	similar compounds	NOAEL 100 mg/kg/day	during gestation

## Lactation

Name	Route	Species	Value
Xylene	Ingestion	Mouse	Not classified for effects on or via
			lactation

# Target Organ(s)

# Specific Target Organ Toxicity - single exposure

Name	Route	Target	Value	Species	Test result	Exposure
		Organ(s)				Duration
Cyclohexanon	Inhalation	central nervous	May cause	Guinea pig	LOAEL 16.1	6 hours
e		system	drowsiness or		mg/l	
		depression	dizziness			
Cyclohexanon	Inhalation	respiratory	Some positive	Human	NOAEL Not	

e		irritation	data exist, but the data are not sufficient for classification		available	
Cyclohexanon e	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
1-Methoxy-2- propyl acetate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
1-Methoxy-2- propyl acetate	Ingestion	central nervous system depression	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL not available	
Xylene	Inhalation	auditory system	Causes damage to organs	Rat	LOAEL 6.3 mg/l	8 hours
Xylene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Xylene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Xylene	Inhalation	eyes	Not classified	Rat	NOAEL 3.5 mg/l	not available
Xylene	Inhalation	liver	Not classified	Multiple animal species	NOAEL Not available	
Xylene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	
Xylene	Ingestion	eyes	Not classified	Rat	NOAEL 250 mg/kg	not applicable
Ethylbenzene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Ethylbenzene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human and animal	NOAEL Not available	
Bis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacate	Dermal	photoirritation	Not classified	Mouse	NOAEL not available	
Bis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
Zinc 2- ethylhexanoat e	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
Calcium 2- ethylhexanoat e	Inhalation	respiratory irritation	Some positive data exist, but the data are not	similar health hazards	NOAEL not available	

	sufficient for		
	classification		

## Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Cyclohexanon e	Inhalation	liver   kidney and/or bladder	Not classified	Rabbit	NOAEL 0.76 mg/l	50 days
Cyclohexanon e	Ingestion	liver	Not classified	Mouse	NOAEL 4,800 mg/kg/day	90 days
Dipropylene glycol methyl ether acetate	Ingestion	liver   heart   endocrine system   hematopoietic system   kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	4 weeks
1-Methoxy-2- propyl acetate	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 16.2 mg/l	9 days
1-Methoxy-2- propyl acetate	Inhalation	olfactory system	Not classified	Mouse	LOAEL 1.62 mg/l	9 days
1-Methoxy-2- propyl acetate	Inhalation	blood	Not classified	Multiple animal species	NOAEL 16.2 mg/l	9 days
1-Methoxy-2- propyl acetate	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	44 days
Xylene	Inhalation	nervous system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.4 mg/l	4 weeks
Xylene	Inhalation	auditory system	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 7.8 mg/l	5 days
Xylene	Inhalation	liver	Not classified	Multiple animal species	NOAEL Not available	
Xylene	Inhalation	heart   endocrine system   gastrointestinal tract   hematopoietic system   muscles   kidney and/or bladder   respiratory system	Not classified	Multiple animal species	NOAEL 3.5 mg/l	13 weeks
Xylene	Ingestion	auditory system	Not classified	Rat	NOAEL 900 mg/kg/day	2 weeks
Xylene	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,500 mg/kg/day	90 days
Xylene	Ingestion	liver	Not classified	Multiple animal species	NOAEL Not available	
Xylene	Ingestion	heart   skin   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   immune system   nervous system   respiratory	Not classified	Mouse	NOAEL 1,000 mg/kg/day	103 weeks

		system				
Ethylbenzene	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.1 mg/l	2 years
Ethylbenzene	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 1.1 mg/l	103 weeks
Ethylbenzene	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 3.4 mg/l	28 days
Ethylbenzene	Inhalation	auditory system	Not classified	Rat	NOAEL 2.4 mg/l	5 days
Ethylbenzene	Inhalation	endocrine system	Not classified	Mouse	NOAEL 3.3 mg/l	103 weeks
Ethylbenzene	Inhalation	gastrointestinal tract	Not classified	Rat	NOAEL 3.3 mg/l	2 years
Ethylbenzene	Inhalation	bone, teeth, nails, and/or hair   muscles	Not classified	Multiple animal species	NOAEL 4.2 mg/l	90 days
Ethylbenzene	Inhalation	heart   immune system   respiratory system	Not classified	Multiple animal species	NOAEL 3.3 mg/l	2 years
Ethylbenzene	Ingestion	liver   kidney and/or bladder	Not classified	Rat	NOAEL 680 mg/kg/day	6 months
Bis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacate	Ingestion	heart   skin   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system	Not classified	Rat	NOAEL 261 mg/kg/day	90 days
Poly(oxy-1,2- ethanediyl), α-[3-[3-(2H- benzotriazol- 2-yl)-5-(1,1- dimethylethyl )-4- hydroxypheny l]-1- oxopropyl]-ω- hydroxy-	Ingestion	liver   endocrine system   hematopoietic system   eyes   kidney and/or bladder   respiratory system	Not classified	Rat	NOAEL 50 mg/kg/day	90 days
Polymeric benzotriazole	Ingestion	liver   endocrine system   hematopoietic system   eyes   kidney and/or	Not classified	Rat	NOAEL 50 mg/kg/day	90 days

		bladder   respiratory system				
2,3- Epoxypropyl neodecanoate	Ingestion	hematopoietic system   liver	Not classified	Rat	NOAEL 400 mg/kg/day	5 weeks
2,3- Epoxypropyl neodecanoate	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 40 mg/kg/day	5 weeks

### **Aspiration Hazard**

Name	Value
Xylene	Aspiration hazard
Ethylbenzene	Aspiration hazard

### Exposure Levels

Refer Section 8.1 Control Parameters of this Safety Data Sheet.

### **Interactive Effects**

Not determined.

# **SECTION 12: Ecological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

## Acute aquatic hazard:

GHS Acute 3: Harmful to aquatic life.

### Chronic aquatic hazard:

GHS Chronic 3: Harmful to aquatic life with long lasting effects.

No product test data available.

Material	CAS Number	Organism	Туре	Exposure	Test endpoint	Test result
Cyclohexanone	108-94-1	Activated sludge	Experimental	30 minutes	EC50	>1,000 mg/l
Cyclohexanone	108-94-1	Algae or other aquatic plants	Experimental	72 hours	ErC50	32.9 mg/l
Cyclohexanone	108-94-1	Fathead minnow	Experimental	96 hours	LC50	527 mg/l
Cyclohexanone	108-94-1	Water flea	Experimental	24 hours	EC50	800 mg/l
Cyclohexanone	108-94-1	Algae or other aquatic plants	Experimental	72 hours	ErC10	3.56 mg/l
Dipropylene glycol methyl ether acetate	88917-22-0	Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l
Dipropylene glycol methyl ether acetate	88917-22-0	Green algae	Experimental	72 hours	ErC50	>1,000 mg/l
Dipropylene glycol methyl ether acetate	88917-22-0	Rainbow trout	Experimental	96 hours	LC50	111 mg/l
Dipropylene glycol methyl ether acetate	88917-22-0	Water flea	Experimental	48 hours	LC50	1,090 mg/l

	1	1	1	I	1	
Dipropylene glycol methyl ether acetate	88917-22-0	Green algae	Experimental	72 hours	NOEC	1,000 mg/l
1-Methoxy-2- propyl acetate	108-65-6	Activated sludge	Experimental	30 minutes	EC10	>1,000 mg/l
1-Methoxy-2- propyl acetate	108-65-6	Green algae	Experimental	72 hours	ErC50	>1,000 mg/l
1-Methoxy-2- propyl acetate	108-65-6	Rainbow trout	Experimental	96 hours	LC50	134 mg/l
1-Methoxy-2- propyl acetate	108-65-6	Water flea	Experimental	48 hours	EC50	370 mg/l
1-Methoxy-2- propyl acetate	108-65-6	Green algae	Experimental	72 hours	NOEC	1,000 mg/l
1-Methoxy-2- propyl acetate	108-65-6	Water flea	Experimental	21 days	NOEC	100 mg/l
Vinyl acetate-vinyl alcohol-vinyl chloride polymer	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Benzoic acid, 2,3,4,5-tetrachloro- 6-cyano-, methyl ester, reaction products with p- phenylenediamine and sodium methoxide	106276-80-6	Green algae	Analogous Compound	72 hours	No tox obs at lmt of water sol	>100 mg/l
Benzoic acid, 2,3,4,5-tetrachloro- 6-cyano-, methyl ester, reaction products with p- phenylenediamine and sodium methoxide	106276-80-6	Water flea	Analogous Compound	48 hours	No tox obs at lmt of water sol	>100 mg/l
Benzoic acid, 2,3,4,5-tetrachloro- 6-cyano-, methyl ester, reaction products with p- phenylenediamine and sodium methoxide	106276-80-6	Zebra Fish	Analogous Compound	96 hours	No tox obs at lmt of water sol	>100 mg/l
Benzoic acid, 2,3,4,5-tetrachloro- 6-cyano-, methyl ester, reaction products with p- phenylenediamine and sodium methoxide	106276-80-6	Green algae	Analogous Compound	72 hours	No tox obs at lmt of water sol	>100 mg/l
Benzoic acid, 2,3,4,5-tetrachloro- 6-cyano-, methyl ester, reaction products with p- phenylenediamine and sodium methoxide	106276-80-6	Activated sludge	Experimental	30 minutes	EC50	>1,000 mg/l
Benzoic acid, 2,3,4,5-tetrachloro- 6-cyano-, methyl ester, reaction products with p- phenylenediamine	106276-80-6	Redworm	Experimental	14 days	LC50	>1,000 mg/kg (Dry Weight)
and sodium methoxide						
	1330-20-7	Activated sludge	Estimated	3 hours	NOEC EC50	157 mg/l

Xylene       1330-20-7       Water Rea       Estimated       48 hours       FC50       38 zangl         Xylene       1330-20-7       Rainbow trout       Estimated       7 dows       NOEC       0.44 mg1         Xylene       1330-20-7       Rainbow trout       Estimated       7 days       NOEC       0.96 mg1         Zylene       1330-26-7       Water Rea       Estimated       7 days       NOEC       0.96 mg1         Zylene       1330-26-7       Water Rea       Experimental       48 hours       LC50       2.6 mg1         Zylene       131-56-6       Wealer Rea       Experimental       48 hours       LC50       7.86 mg1         Zyleno       131-56-6       Goldfish       Experimental       28 days       NOEC       0.48 mg1         Zyleno       131-56-6       Ciliated protozoa       Experimental       28 days       NOEC       0.48 mg1         Zyleno       131-56-6       Ciliated protozoa       Experimental       48 hours       IC50       2.6 mg1         Zylenoybenzoph       131-56-6       Ciliated protozoa       Experimental       48 hours       IC50       2.6 mg1         Z		1	1	1			
Xylence       1330.20-7       Green algae       Ferminated       2 hours       NOFC       0.4 mg1         Xylence       1330.20-7       Water flea       Estimated       7 days       NOFC       0.4 mg1         Xylence       1330.20-7       Water flea       Estimated       7 days       NOFC       0.4 mg1         Z4-       131-56-6       Copepod       Experimental       48 hours       LCS0       3.7 mg1         Z4-       131-56-6       Meduka       Experimental       96 hours       LCS0       7.86 mg1         Z4-       131-56-6       Water flea       Experimental       48 hours       LCS0       0.48 mg1         Z4-       131-56-6       Goldrish       Experimental       48 hours       LCS0       0.48 mg1         Dilydoxybaroph       innois       Experimental       48 hours       LCS0       0.48 mg1         Eilyblenzere       100-11-4       Green algae       Experimental       48 hours       LCS0       3.2 mg1         Eilyblenzere       100-41-4       Green algae       Experimental       49 hours       LCS0       3.2 mg1         Eilyblenzere       100-41-4 <t< td=""><td>Xylene</td><td></td><td></td><td>Estimated</td><td>96 hours</td><td></td><td>2.6 mg/l</td></t<>	Xylene			Estimated	96 hours		2.6 mg/l
Xylene       1330-20-7       Rainbow trout       Estimated       So days       NOEC       > 14         2.4       131-56-6       Copepod       Experimental       48 hours       LC50       2.6 mg/l         2.4       131-56-6       Copepod       Experimental       96 hours       LC50       3.7 mg/l         2.4       131-56-6       Medaka       Experimental       96 hours       LC50       7.86 mg/l         2.4       131-56-6       Water flea       Experimental       48 hours       LC50       7.86 mg/l         Dhydroxyben.oph       131-56-6       Goldfish       Experimental       28 days       NOEC       0.48 mg/l         Dhydroxyben.oph       enone       131-56-6       Cilated protozoa       Experimental       28 days       NOEC       0.48 mg/l         Dhydroxyben.oph       enone       100-41-4       Green algae       Estimated       74 hours       1250       130 mg/l         Einfolkerone       100-41-4       Rainbow trout       Estimated       74 hours       1250       130 mg/l         Einfolkerone       100-41-4       Rainbow trout       Estimated       74 hours       NOEC			_				
Xubon       1330-20-7       Water flas       Pseimated       2 days       NOFC       0.0 forg1         2,4-       131-36-6       Copepod       Experimental       48 hours       LC50       2.6 mg/l         2,4-       131-36-6       Mediaka       Experimental       96 hours       LC50       3.7 mg/l         2,4-       131-56-6       Mediaka       Experimental       48 hours       LC50       7.86 mg/l         2,4-       131-56-6       Goldflish       Experimental       48 hours       LC50       7.86 mg/l         2,4-       131-56-6       Goldflish       Experimental       28 days       NOFC       0.48 mg/l         2,4-       131-56-6       Goldflish       Experimental       48 hours       IC50       9.14 mg/l         Dihydroxyberzoph enone       100-41-4       Creen algae       Pstimated       90 hours       IC50       2.8 mg/l         Ethylkorzene       100-41-4       Raibow trout       Pstimated       90 hours       IC50       2.8 mg/l         Ethylkorzene       100-41-4       Raibow trout       Pstimated       73 hours       FC50       38 mg/l         Ethylkorzene <td>Xylene</td> <td>1330-20-7</td> <td></td> <td>Estimated</td> <td>72 hours</td> <td></td> <td><u> </u></td>	Xylene	1330-20-7		Estimated	72 hours		<u> </u>
2.4.   131-56-6   Copepod   Experimental   48 hours   LC50   2.6 mg/l     enone   2.4   131-56-6   Mediaka   Experimental   96 hours   LC50   3.7 mg/l     Ditydyctybenzyb   131-56-6   Water filea   Experimental   48 hours   LC50   7.66 mg/l     Ditydyctybenzyb   131-56-6   Goldfish   Experimental   48 hours   LC50   0.48 mg/l     2.4   131-56-6   Goldfish   Experimental   48 hours   LC50   9.14 mg/l     2.4   131-56-6   Goldfish   Experimental   48 hours   LC50   9.14 mg/l     2.4   131-56-6   Goldfish   Experimental   48 hours   LC50   4.36 mg/l     Ditydyctybenzyb   Goldfish   Experimental   48 hours   LC50   4.36 mg/l     Bidybenzee   100-41-4   Green algae   Experimental   48 hours   PC50   3.2 mg/l     Binybenzee   100-41-4   Barnbow troot   Estimated   49 hours   PC50   3.4 mg/l     Binybenzee   100-41-4   Water filea   Experimental   9 hours   LC50   4.4 mg/l     Binybenzee   100-41-4   Water filea   Experimental   9 hours   LC50   8.58 mg/l <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	5						
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		1330-20-7	Water flea	Estimated		NOEC	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		131-56-6	Copepod	Experimental	48 hours	LC50	2.6 mg/l
2.4- billydroxybar.oph enote 2,4- billydroxybar.oph enote   131-56-6 billydroxybar.oph enote   Metaka 2,4- billydroxybar.oph enote   131-56-6 billydroxybar.oph enote   Goldfish 2,4- billydroxybar.oph enote   131-56-6 billydroxybar.oph enote   Goldfish 2,4- billydroxybar.oph enote   LC50   7,86 mg/l     2,4- billydroxybar.oph enote   131-56-6 billydroxybar.oph enote   Goldfish 2,4- billydroxybar.oph enote   Cliated protozoa Experimental   28 days   NOEC   0.48 mg/l     2,4- billydroxybar.oph enote   100-41-4 billydroxybar.oph enote   Green algae Estimated   73 hours   EC50   4.36 mg/l     Eintybenzere   100-41-4 billydroxybar.oph enote   Core algae Estimated   73 hours   EC50   3.82 mg/l     Eintybenzere   100-41-4 billydroxybar.oph enote   Core algae Estimated   74 hours   NOEC   0.43 mg/l     Eintybenzere   100-41-4 billydroxybar.oph experimental   Se days   NOEC   0.38 mg/l     Eintybenzere   100-41-4 billydroxybar.oph experimental   Se days   NOEC   0.43 mg/l     Eintybenzere   100-41-4 billydroxybar.oph experimental   Se days   NOEC   0.44 mg/l     Eintybenzere   100-41-4 billydroxybar.oph experimental   Se days   NOEC   0.43 mg/l     Billydroxybenzybe   100-41-4 billydroxybar.oph experimental   Se days   NOEC   0.44 mg/l	Dihydroxybenzoph						
Dibydoryshenzoph enoneImage: Construct of the second seco							
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		131-56-6	Medaka	Experimental	96 hours	LC50	3.7 mg/l
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	<i>y y</i> 1						
Dihydroxyhenzoph cenoreImage: Construction of the second							
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		131-56-6	Water flea	Experimental	48 hours	LC50	7.86 mg/l
2.4   [31-56-6]   Goldfish   Experimental   28 days   NOEC   0.48 mg/l     conce   [31-56-6]   Ciliated protozoa   Experimental   48 hours   ICS0   9.14 mg/l     Dhydroxybenzoph   [10-41-4]   Green algae   Estimated   73 hours   ECS0   4.36 mg/l     Elhybenzene   100-41-4   Rainbow trout   Estimated   96 hours   ECS0   2.6 mg/l     Elhybenzene   100-41-4   Water flea   Estimated   96 hours   ECS0   130 mg/l     Elhybenzene   100-41-4   Rainbow trout   Estimated   73 hours   ECS0   130 mg/l     Elhybenzene   100-41-4   Water flea   Estimated   74 days   NOEC   0.44 mg/l     Elhybenzene   100-41-4   Water flea   Estimated   7 days   NOEC   0.44 mg/l     Elhybenzene   100-41-4   Water flea   Estimated   7 days   NOEC   0.96 mg/l     Elhybenzene   100-41-4   Water flea   Experimental   72 hours   ECS0   0.705 mg/l     Bio (2, 2, 6, 6   52829-07-9   Green algae   Experimental   72 hours   ECS0   8.58 mg/l     Bio (2, 2, 6, 6   52829-07-9   Water flea   Experimental   48 hours							
Dihydroxyberazph enoneImage: Construct of the second seco						11070	
enome       / <td></td> <td>131-56-6</td> <td>Goldfish</td> <td>Experimental</td> <td>28 days</td> <td>NOEC</td> <td>0.48 mg/l</td>		131-56-6	Goldfish	Experimental	28 days	NOEC	0.48 mg/l
2.4- Dihydroxyberzoph   13-56-6   Cliuied protozoa   Experimental   48 hours   ICS0   9.14 mg/l     enone   100-41-4   Green algae   Estimated   73 hours   ECS0   4.36 mg/l     Ethyberzene   100-41-4   Rainbow trout   Estimated   96 hours   ICS0   0.4 mg/l     Ethyberzene   100-41-4   Activated slugge   Experimental   49 hours   ICS0   103 mg/l     Ethyberzene   100-41-4   Activated slugge   Estimated   73 hours   NOEC   >1.3 mg/l     Ethyberzene   100-41-4   Kater fice   Estimated   74 hours   NOEC   >1.3 mg/l     Ethyberzene   100-41-4   Water fice   Estimated   74 hours   NOEC   >1.3 mg/l     Ethyberzene   100-41-4   Water fice   Estimated   74 hours   NOEC   >1.4 mg/l     Ethyberzene   100-41-4   Water fice   Estimated   72 hours   ICS0   0.705 mg/l     Ethyberzene   100-41-4   Water fice   Experimental   72 hours   ICS0   0.705 mg/l     Ethyberzene   52829-07-9   Green algae   Experimental   48 hours   ECS0   8.58 mg/l     Ethyberzene   52829-07-9   Green algae   Experimental   <	J J I						
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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		131-56-6	Ciliated protozoa	Experimental	48 hours	1C50	9.14 mg/l
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$							
$ \begin{array}{  c   } \hline Exp(b) = 100-41-4 & Water Thea Fistmated 96 hours EC50 3.82 mg/l \\ Ehylbenzene 100-41-4 & Vater Thea Fistmated 48 hours EC50 130 mg/l \\ Ehylbenzene 100-41-4 & Careen algae Estimated 73 hours NOEC 0.44 mg/l \\ Ehylbenzene 100-41-4 & Rainlow trout Estimated 56 days NOEC 0.44 mg/l \\ Ehylbenzene 100-41-4 & Rainlow trout Estimated 7 days NOEC 0.94 mg/l \\ Ehylbenzene 100-41-4 & Water Thea Estimated 7 days NOEC 0.95 mg/l \\ Ehylbenzene 100-41-4 & Rainlow trout Estimated 7 days NOEC 0.96 mg/l \\ Ehylbenzene 100-41-4 & Rainlow trout Estimated 7 days NOEC 0.96 mg/l \\ Ehylbenzene 100-41-4 & Rainlow trout Estimated 7 days NOEC 0.96 mg/l \\ Ehylbenzene 100-41-4 & Rainlow trout Estimated 7 days NOEC 0.96 mg/l \\ Ehylbenzene 100-41-4 & Rainlow trout Estimated 7 days NOEC 0.96 mg/l \\ Ehylbenzene 100-41-4 & Rainlow trout Estimated 7 days NOEC 0.96 mg/l \\ Ehylbenzene 100-41-4 & Rainlow trout Estimated 7 days NOEC 0.975 mg/l \\ Etranethyl-4 & Particle 100-41-4 & Rainlow trout Estimated 7 days NOEC 0.975 mg/l \\ Ehylbenzene 100-41-4 & Rainlow trout Estimated 7 days NOEC 0.92 mg/l \\ Schatte 100-100-1000 & S2829-07-9 \\ Schatte 100-1000 & S2829-07$		100 41 4		<b>P</b>	72.1	- EGGO	1.26 //
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$							
Ehylbenzene Bis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacateWater fleaEstimated piperidinyl) sebacate7 days SebacateNOEC0.96 mg/lBis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacate52829-07-9Green algaeExperimental96 hoursLC504.4 mg/lBis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacate52829-07-9Green algaeExperimental72 hoursEC500.705 mg/lBis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacate52829-07-9Water fleaExperimental48 hoursEC508.58 mg/lBis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacate52829-07-9Green algaeExperimental72 hoursEC100.188 mg/lBis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacate52829-07-9Green algaeExperimental21 daysNOEC0.23 mg/lBis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacate52829-07-9Water fleaExperimental21 daysNOEC0.23 mg/lBis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacate52829-07-9Activated sludgeExperimental3 hoursIC50>100Bis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacate52829-07-9Activated sludgeExperimental3 hoursIC50>100 mg/lBis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacate52829-07-9Activated sludgeExperimental3 hoursIC50>100 mg/lPoly(oxy-1.2- ethaneetiyl), $\alpha_{-13-}$ 104810-48-2Green alga	Ethylbenzene			Estimated			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		100-41-4	Rainbow trout		56 days		>1.3 mg/l
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		100-41-4	Water flea	Estimated	7 days	NOEC	0.96 mg/l
piperidinyi) sebacate Bis (2, 2, 6, 6- tetramethyl-4- piperidinyi) sebacate Bis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacate Bis (2, 2, 6- tetramethyl-4- piperidinyl) sebacate Bis (2, 2, 6- tetramethyl-4- piperidinyl) sebacate Bis (2, 2, 6- tetramethyl-4- piperidinyl) sebacate Bis (2, 6- tetramethyl-4- piperidin	Bis (2, 2, 6, 6-	52829-07-9	Bluegill	Experimental	96 hours	LC50	4.4 mg/l
schaate $\sim$ $\sim$ $\sim$ $\sim$ $\sim$ Bis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacateS2829-07-9Green algaeExperimental72 hoursEC500.705 mg/lBis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacateS2829-07-9Water fleaExperimental48 hoursEC508.58 mg/lBis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacateS2829-07-9Green algaeExperimental72 hoursEC100.188 mg/lBis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacateS2829-07-9Water fleaExperimental21 daysNOEC0.23 mg/lBis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacateS2829-07-9Water fleaExperimental21 daysNOEC0.23 mg/lBis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacateS2829-07-9Activated sludgeExperimental3 hoursIC50>100Bis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacateGreen algaeExperimental3 hoursIC50>100Bis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacateI04810-48-2Green algaeEstimated72 hoursEC50>100 mg/lPoly(oxyr-12- tethanediyl), $\alpha$ -15I04810-48-2Rainbow troutEstimated96 hoursLC502.8 mg/lPoly(oxyr-12- tydroxyphenyl]-1-I04810-48-2Rainbow troutEstimated96 hoursLC502.8 mg/lPoly(oxyr-12- tydroxyphenyl]-1-I04810-48-2Rainbow troutEstimated96 hoursLC5	tetramethyl-4-						_
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sebacate </td <td>tetramethyl-4-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td>	tetramethyl-4-						_
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tetramethyl-4- piperidinyl) sebacate Bis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacate Poly(0xy-1,2- ethanediyl), α-[3- [3-(2H- benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1- Net Set Set Set Set Set Set Set Set Set S	sebacate						
piperidinyl) sebacate Bis (2, 2, 6, 6- Bis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacate Constraints of the set of th	Bis (2, 2, 6, 6-	52829-07-9	Water flea	Experimental	21 days	NOEC	0.23 mg/l
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tetramethyl-4- piperidinyl) sebacate Poly(oxy-1,2- ethanediyl), α-[3- [3-(2H- benzotriazol-2-yl)- s-(1,1- dimethylethyl)-4- hydroxy- Poly(oxy-,2- ethanediyl), α-[3- [3-(2H- benzotriazol-2-yl)- s-(1,1- dimethylethyl)-4- hydroxy- Poly(oxy-1,2- ethanediyl), α-[3- [3-(2H- benzotriazol-2-yl)- s-(1,1- dimethylethyl)-4- hydroxy- hydroxy- Poly(oxy-1,2- ethanediyl), α-[3- [3-(2H- benzotriazol-2-yl)- s-(1,1- dimethylethyl)-4- hydroxyhenyl]-1-	sebacate						
piperidinyl) sebacate Poly(oxy-1,2- ethanediyl), α-[3- [3-(2H- benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4- hydroxy- Poly(oxy-1,2- ethanediyl), α-[3- [3-(2H- benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4- hydroxy- Poly(oxy-1,2- ethanediyl), α-[3- [3-(2H- benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1-	Bis (2, 2, 6, 6-	52829-07-9	Activated sludge	Experimental	3 hours	IC50	>100
sebacateImage: sebacateImage: sebacateSebacateImage: sebacateSebacatePoly(oxy-1,2- ethanediyl), α-[3- [3-(2H- benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1- oxopropyl]-ω- hydroxy-Image: sebacateFestimated72 hoursFC50>100 mg/lPoly(oxy-1,2- ethanediyl), α-[3- [3-(2H- benzotriazol-2-yl)- 5-(1,1-Image: sebacateFestimated96 hoursLC502.8 mg/lPoly(oxy-1,2- ethanediyl), α-[3- [3-(2H- benzotriazol-2-yl)- 5-(1,1-Image: sebacate here than ethal96 hoursLC502.8 mg/l	tetramethyl-4-						
Poly(oxy-1,2- ethanediyl), $\alpha$ -[3- [3-(2H- benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4- hydroxy-Internal and the second							
ethanediyl), α-[3- [3-(2H- benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4- hydroxy- Poly(oxy-1,2- ethanediyl), α-[3- [3-(2H- benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1-							
[3-(2H- benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4- hydroxy- Poly(oxy-1,2- ethanediyl), α-[3- [3-(2H- benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1-	Poly(oxy-1,2-	104810-48-2	Green algae	Estimated	72 hours	EC50	>100 mg/l
benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1- oxopropyl] hydroxy- Poly(oxy-1,2- ethanediyl), α-[3- [3-(2H- benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1- Rainbow trout Estimated Pol hours LC50 LC50 2.8 mg/l							
5-(1,1-     dimethylethyl)-4-       hydroxyphenyl]-1-     oxopropyl]-ω-       oxopropyl]-ω-     hydroxy-       Poly(oxy-1,2-     104810-48-2       Rainbow trout     Estimated       96 hours     LC50       2.8 mg/l       imethylethyl)-4-       hydroxyphenyl]-1-							
dimethylethyl)-4- hydroxyphenyl]-1- oxopropyl]-ω- hydroxy- Poly(oxy-1,2- ethanediyl), α-[3- [3-(2H- benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1-							
hydroxyphenyl]-1- oxopropyl]-ω- hydroxy- Poly(oxy-1,2- ethanediyl), α-[3- [3-(2H- benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1-							
oxopropy]-ω- hydroxy-Image: Second						1	
hydroxy- </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td>						1	
Poly(oxy-1,2- ethanediyl), α-[3- [3-(2H- benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1-						1	
ethanediyl), α-[3- [3-(2H- benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1-							
[3-(2H- benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1-	Poly(oxy-1,2-	104810-48-2	Rainbow trout	Estimated	96 hours	LC50	2.8 mg/l
benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1-							
5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1-							
dimethylethyl)-4- hydroxyphenyl]-1-							
hydroxyphenyl]-1-						1	
						1	
oxopropy]						1	
	oxopropyl]-ω-						

hydroxy-							
Poly(oxy-1,2-	104810-48-2	Water flea	Estimated	48 hours	EC50	4 mg/l	
ethanediyl), α-[3-						-	
[3-(2H-							
benzotriazol-2-yl)-							
5-(1,1- dimethylethyl)-4-							
hydroxyphenyl]-1-							
oxopropyl]-ω-							
hydroxy-							
Poly(oxy-1,2-	104810-48-2	Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l	
ethanediyl), α-[3-			1				
[3-(2H-							
benzotriazol-2-yl)-							
5-(1,1-							
dimethylethyl)-4-							
hydroxyphenyl]-1- oxopropyl]-ω-							
hydroxy-							
Poly(oxy-1,2-	104810-48-2	Green algae	Estimated	72 hours	EC10	10 mg/l	
ethanediyl), α-[3-	101010 10 2	Green uigue	Estimated	/2 110415	Leite	10 110/1	
[3-(2H-							
benzotriazol-2-yl)-							
5-(1,1-							
dimethylethyl)-4-							
hydroxyphenyl]-1-							
oxopropyl]-ω-							
hydroxy- Poly(oxy-1,2-	104810-48-2	Water flea	Estimated	21 days	NOEC	0.78 mg/l	
ethanediyl), α-[3-	104810-48-2	water nea	Estimated	21 days	NOEC	0.78 mg/1	
[3-(2H-							
benzotriazol-2-yl)-							
5-(1,1-							
dimethylethyl)-4-							
hydroxyphenyl]-1-							
oxopropyl]-ω-							
hydroxy-							
Polymeric benzotriazole	104810-47-1	Green algae	Estimated	72 hours	EC50	>100 mg/l	
Polymeric	104810-47-1	Rainbow trout	Estimated	96 hours	LC50	2.8 mg/l	
benzotriazole							
Polymeric	104810-47-1	Water flea	Estimated	48 hours	EC50	4 mg/l	
benzotriazole							
Polymeric benzotriazole	104810-47-1	Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l	
Polymeric	104810-47-1	Green algae	Estimated	72 hours	EC10	10 mg/l	
benzotriazole	104010-47-1	Green algae	Estimated	/2 110013	Leio	10 112/1	
Polymeric	104810-47-1	Water flea	Estimated	21 days	NOEC	0.78 mg/l	
benzotriazole							
2,3-Epoxypropyl	26761-45-5	Activated sludge	Experimental	3 hours	NOEC	500 mg/l	
neodecanoate							
2,3-Epoxypropyl	26761-45-5	Green algae	Experimental	72 hours	ErC50	2.9 mg/l	
neodecanoate	0(7(1))			0.61	1.050		
2,3-Epoxypropyl	26761-45-5	Rainbow trout	Experimental	96 hours	LC50	5 mg/l	
neodecanoate 2,3-Epoxypropyl	26761-45-5	Water flea	Experimental	48 hours	EC50	4.8 mg/l	
neodecanoate	20/01-43-3	water nea	Experimental	48 nours	EC30	4.8 mg/1	
2,3-Epoxypropyl	26761-45-5	Green algae	Experimental	96 hours	NOEC	1 mg/l	
neodecanoate	20/01 45 5	Green argue	Experimental	50 110013	ROLE	1 mg/1	
Calcium 2-	136-51-6	Activated sludge	Transformation	30 minutes	EC20	740 mg/l	
ethylhexanoate			Product	2.5	2020	,	
Calcium 2-	136-51-6	Green algae	Transformation	72 hours	ErC50	56 mg/l	
ethylhexanoate			Product				
Calcium 2-	136-51-6	Medaka	Transformation	96 hours	LC50	>113 mg/l	
ethylhexanoate			Product				
Calcium 2-	136-51-6	Water flea	Transformation	48 hours	EC50	97 mg/l	]
ethylhexanoate Calcium 2-	136-51-6	Green algae	Product Transformation	96 hours	ErC10	28 mg/l	

ethylhexanoate			Product				
Calcium 2- ethylhexanoate	136-51-6	Water flea	Transformation Product	21 days	NOEC	28 mg/l	
Phosphonic acid, diphenyl ester	4712-55-4	Green algae	Analogous Compound	72 hours	EC50	>16 mg/l	
Phosphonic acid, diphenyl ester	4712-55-4	Medaka	Analogous Compound	96 hours	LC50	>4.3 mg/l	
Phosphonic acid, diphenyl ester	4712-55-4	Water flea	Analogous Compound	48 hours	EC50	0.45 mg/l	
Phosphonic acid, diphenyl ester	4712-55-4	Green algae	Analogous Compound	72 hours	NOEC	16 mg/l	
Zinc 2- ethylhexanoate	136-53-8	Rainbow trout	Experimental	96 hours	LC50	0.44 mg/l	
Zinc 2- ethylhexanoate	136-53-8	Water flea	Experimental	48 hours	EC50	1.6 mg/l	

# 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Cyclohexanone	108-94-1	Experimental	14 days	BOD	87 %BOD/ThOD	OECD 301C - MITI test (1)
Cyclonexatione	100-94-1	Biodegradation	14 days	DOD		
Dipropylene glycol methyl ether acetate	88917-22-0	Analogous Compound Biodegradation	28 days	Dissolv. Organic Carbon Deplet	90 %removal of DOC	OECD 301F - Manometric respirometry
1-Methoxy-2- propyl acetate	108-65-6	Experimental Biodegradation	28 days	BOD	87.2 %BOD/ThOD	OECD 301C - MITI test (I)
1-Methoxy-2- propyl acetate	108-65-6	Experimental Aquatic Inherent Biodegrad.		Dissolv. Organic Carbon Deplet	>100 %removal of DOC	similar to OECD 302B
Vinyl acetate-vinyl alcohol-vinyl chloride polymer	Trade Secret	Data not available- insufficient	N/A	N/A	N/A	N/A
Benzoic acid, 2,3,4,5-tetrachloro- 6-cyano-, methyl ester, reaction products with p- phenylenediamine and sodium methoxide	106276-80-6	Modeled Biodegradation	28 days	BOD	3 %BOD/ThOD	Catalogic™
Xylene	1330-20-7	Experimental Biodegradation	28 days	BOD	90- 98 %BOD/ThOD	OECD 301F - Manometric respirometry
Xylene	1330-20-7	Experimental Photolysis		Photolytic half-life (in air)	1.4 days (t 1/2)	
2,4- Dihydroxybenzoph enone	131-56-6	Experimental Biodegradation	28 days	BOD	0 %BOD/ThOD	OECD 301C - MITI test (I)
Ethylbenzene	100-41-4	Experimental Biodegradation	28 days	BOD	90- 98 %BOD/ThOD	OECD 301F - Manometric respirometry
Bis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacate	52829-07-9	Experimental Biodegradation	28 days	Percent degraded	24 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Bis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacate	52829-07-9	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	56.6 days (t 1/2)	OECD 111 Hydrolysis func of pH
Poly(oxy-1,2- ethanediyl), α-[3- [3-(2H- benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4-	104810-48-2	Estimated Biodegradation	28 days	CO2 evolution	24 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2

hydroxyphenyl]-1- oxopropyl]-ω- hydroxy-						
Polymeric benzotriazole	104810-47-1	Estimated Biodegradation	28 days	CO2 evolution	24 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
2,3-Epoxypropyl neodecanoate	26761-45-5	Experimental Biodegradation	28 days	BOD	11.6 %BOD/ThOD	OECD 301F - Manometric respirometry
2,3-Epoxypropyl neodecanoate	26761-45-5	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	9.9 days (t 1/2)	OECD 111 Hydrolysis func of pH
Calcium 2- ethylhexanoate	136-51-6	Transformation product Biodegradation	28 days	Dissolv. Organic Carbon Deplet	99 %removal of DOC	OECD 301E - Modif. OECD Screen
Phosphonic acid, diphenyl ester	4712-55-4	Analogous Compound Biodegradation	28 days	BOD	84 %BOD/ThOD	OECD 301D - Closed bottle test
Zinc 2- ethylhexanoate	136-53-8	Transformation product Biodegradation	20 days	BOD	83 %BOD/ThOD	OECD 301D - Closed bottle test

## 12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Cyclohexanone	108-94-1	Experimental Bioconcentration		Log Kow	0.86	OECD 107 log Kow shke flsk mtd
Dipropylene glycol methyl ether acetate	88917-22-0	Experimental Bioconcentration		Log Kow	0.61	EC A.8 Partition Coefficient
1-Methoxy-2- propyl acetate	108-65-6	Experimental Bioconcentration		Log Kow	0.36	OECD 107 log Kow shke flsk mtd
Vinyl acetate-vinyl alcohol-vinyl chloride polymer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Benzoic acid, 2,3,4,5-tetrachloro- 6-cyano-, methyl ester, reaction products with p- phenylenediamine and sodium methoxide	106276-80-6	Modeled Bioconcentration		Bioaccumulation factor	35	Catalogic™
Xylene	1330-20-7	Experimental BCF - Fish	56 days	Bioaccumulation factor	25.9	
2,4- Dihydroxybenzoph enone	131-56-6	Modeled Bioconcentration		Bioaccumulation factor	5.0	Catalogic™
2,4- Dihydroxybenzoph enone	131-56-6	Modeled Bioconcentration		Log Kow	2.96	Episuite™
Ethylbenzene	100-41-4	Experimental BCF - Fish	56 days	Bioaccumulation factor	25.9	
Bis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacate	52829-07-9	Experimental Bioconcentration		Log Kow	0.35	OECD 107 log Kow shke flsk mtd
Poly(oxy-1,2- ethanediyl), α-[3- [3-(2H- benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1- oxopropyl]-ω- hydroxy-	104810-48-2	Estimated BCF - Fish	21 days	Bioaccumulation factor	34	OECD305-Bioconcentration
Polymeric benzotriazole	104810-47-1	Estimated BCF - Fish	21 days	Bioaccumulation factor	34	OECD305-Bioconcentration
2,3-Epoxypropyl	26761-45-5	Modeled		Bioaccumulation	28	Catalogic™

neodecanoate		Bioconcentration	factor		
Calcium 2- ethylhexanoate	136-51-6	Transformation product	Log Ko	w 2.7	similar to OECD 107
		Bioconcentration			
Phosphonic acid,	4712-55-4	Modeled	Log Ko	w 2.4	Episuite™
diphenyl ester		Bioconcentration			
Zinc 2-	136-53-8	Estimated	Log Ko	w 2.7	
ethylhexanoate		Bioconcentration			

## 12.4. Mobility in soil

Please contact manufacturer for more details

### 12.5 Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

## 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. As a disposal alternative, utilize an acceptable permitted waste disposal facility.

# **SECTION 14: Transport Information**

## Australian Dangerous Goods Code (ADG) - Road/Rail Transport

UN No.: UN1210 Proper shipping name: PRINTING INK Class/Division: 3 Sub Risk: Not applicable. Packing Group: III Special Instructions: Limited quantity may apply Hazchem Code: •3Y IERG: 16

## International Air Transport Association (IATA) - Air Transport

UN No.: UN1210 Proper shipping name: PRINTING INK Class/Division: 3 Sub Risk: Not applicable. Packing Group: III

International Maritime Dangerous Goods Code (IMDG)- Marine Transport UN No.: UN1210 Proper shipping name: PRINTING INK Class/Division: 3 Sub Risk: Not applicable. Packing Group: III Marine Pollutant: Not applicable. Special Instructions: Limited quantity may apply

# **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### Australian Inventory Status:

An ingredient(s) in this product is being introduced under the no unreasonable risk non-cosmetic (<100 Kg) exemption provisions specified in Section 21(4) of the Industrial Chemicals (Notification and Assessment) Act 1989 as amended.

# **SECTION 16: Other information**

### **Revision information:**

Conversion to GHS format SDS.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Safety Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

Greenguard ® is a United States based program. The 'Low VOC' reference related to United States Federal and State regulations exemptions for some solvents.

### 3M Australia SDSs are available at www.3m.com.au