

## 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 990-12, Red

#### **Product Identification Numbers**

75-0300-8079-2

#### 1.2. Recommended use and restrictions on use

### Recommended use

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.

Carcinogenicity: Category 1A.
Reproductive Toxicity: 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 | Exclamation mark | Health Hazard |

## **Pictograms**







#### Hazard statements

H315	Causes skin irritation.
H318	Causes serious eye damage
H350	May cause cancer

H360 May damage fertility or the unborn child. 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**

	ntion	

P201 Obtain spec	ecial instructions before use.
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P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P233 Keep container tightly closed.

P240 Ground 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.

P280I Wear protective gloves, eye/face protection, and respiratory protection.

**Response:** 

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water or shower.

P304 + P340IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor/physician. If skin irritation occurs: Get medical advice/attention. P332 + P313Take off contaminated clothing and wash it before reuse. P362 + P364

P370 + P378In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry

chemical or carbon dioxide to extinguish.

Storage:

P403 + P235Store in a well-ventilated place. Keep cool.

P405 Store locked up.

**Disposal:** 

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 in contact with skin.

May be harmful if inhaled.

Toxic 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	10 - 30
Dipropylene glycol methyl ether acetate	88917-22-0	10 - 30
Vinyl acetate-vinyl alcohol-vinyl chloride	Trade Secret	10 - 30
polymer		
1-Methoxy-2-propyl acetate	108-65-6	< 20
Alkyd resin 3261	Trade Secret	3 - 7
Organic pigment	Trade Secret	1 - 5
Xylene	1330-20-7	1 - 5
2,4-Dihydroxybenzophenone	131-56-6	1 - 5
Ethylbenzene	100-41-4	< 1
Nickel salts of naphthenic acids	61788-71-4	< 0.9
Bis (2, 2, 6, 6-tetramethyl-4-piperidinyl)	52829-07-9	< 0.6
sebacate		
Poly(oxy-1,2-ethanediyl), $\alpha$ -[3-[3-(2H-	104810-48-2	< 0.4
benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-		
hydroxyphenyl]-1-oxopropyl]-ω-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 respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). 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**

SubstanceConditionHydrocarbons.During combustion.Carbon monoxide.During combustion.Carbon dioxide.During combustion.Hydrogen ChlorideDuring 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. 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 that is resistant to polar solvents. 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)	
Nickel, soluble compounds, as	61788-71-4	Australia OELs	TWA(as Ni)(8 hours): 0.1	
Ni.			mg/m3	

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 and particulates

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	Red
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 [Ref Std: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 [Ref Std:WATER=1]
Water solubility	No data available.
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 [ <i>Details</i> : As Packaged.]
Percent volatile	65 - 80 % weight
VOC less H2O & exempt solvents	No data available.
Molecular weight	No data available.

# **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

Substance
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. Allergic respiratory reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest. 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

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** 

Acute Toxicity	T	T ~ .	1
Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >2,000 - =5,000 mg/kg
Overall product	Inhalation-Vapour(4 hr)		No data available; calculated ATE >20 - =50 mg/l
Overall product	Ingestion		No data available; calculated ATE >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
Alkyd resin 3261	Dermal		LD50 estimated to be > 5,000 mg/kg
Alkyd resin 3261	Ingestion		LD50 estimated to be > 5,000 mg/kg
Organic pigment	Dermal		LD50 estimated to be > 5,000 mg/kg
Organic pigment	Inhalation-Dust/Mist		LC50 estimated to be > 12.5 mg/l
Organic pigment	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 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
Nickel salts of naphthenic acids	Ingestion	Rat	LD50 419 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 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
Organic pigment	Professional judgement	No significant irritation
Xylene	Rabbit	Mild irritant
2,4-Dihydroxybenzophenone	Rabbit	No significant irritation
Ethylbenzene	Rabbit	Mild irritant
Nickel salts of naphthenic acids	Professional judgement	Minimal irritation
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
Organic pigment	Professional judgement	No significant irritation
Xylene	Rabbit	Mild irritant
2,4-Dihydroxybenzophenone	Rabbit	Severe irritant
Ethylbenzene	Rabbit	Moderate irritant
Nickel salts of naphthenic acids	Professional judgement	Mild 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
Ethylbenzene	Human	Not classified
Nickel salts of naphthenic acids	similar compounds	Sensitising
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** 

Name	Species	Value
Nickel salts of naphthenic acids	Professional judgement	Sensitising

**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
Xylene	In Vitro	Not mutagenic
Xylene	In vivo	Not mutagenic
Ethylbenzene	In vivo	Not mutagenic
Ethylbenzene	In Vitro	Some positive data exist, but the data are not sufficient for classification
Nickel salts of naphthenic acids	In Vitro	Some positive data exist, but the data are not sufficient for classification
Nickel salts of naphthenic acids	In vivo	Mutagenic
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-hydroxyphenyl]-1-oxopropyl]-ω-hydroxy-	In vivo	Not mutagenic
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

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Calcium 2-ethylhexanoate	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Cyclohexanone	Ingestion	Multiple animal	Some positive data exist, but the data
		species	are not sufficient for classification
Xylene	Dermal	Rat	Not carcinogenic
Xylene	Ingestion	Multiple animal	Not carcinogenic
		species	
Xylene	Inhalation	Human	Some positive data exist, but the data
			are not sufficient for classification
Ethylbenzene	Inhalation	Multiple animal	Carcinogenic.
		species	
Nickel salts of naphthenic acids	Inhalation	similar compounds	Carcinogenic.

# **Reproductive Toxicity**

**Reproductive and/or Developmental Effects** 

Name	Route	Value	Species	Test result	Exposure Duration
Cyclohexanone	Inhalation	Not classified for	Rat	NOAEL 4	2 generation
		female reproduction		mg/l	
Cyclohexanone	Inhalation	Not classified for	Rat	NOAEL 2	2 generation
		male reproduction		mg/l	
Cyclohexanone	Ingestion	Not classified for	Mouse	LOAEL	during
-		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		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
•		development		mg/l	gestation
Nickel salts of	Ingestion	Toxic to development	similar compounds	NOAEL not	2 generation
naphthenic acids		_	Î	available	
Bis (2, 2, 6, 6-	Ingestion	Not classified for	Rat	NOAEL 430	2 generation
tetramethyl-4-		male reproduction		mg/kg/day	
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					
Poly(oxy-1,2-	Ingestion	Not classified for	Rat	NOAEL 100	premating into

ethanediyl), α-[3-[3- (2H- benzotriazol-2- yl)-5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1- oxopropyl]-ω- hydroxy-		female reproduction		mg/kg/day	lactation
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 Organ(s)	Value	Species	Test result	Exposure Duration
Cyclohexanon e	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Guinea pig	LOAEL 16.1 mg/l	6 hours
Cyclohexanon e	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for	Human	NOAEL Not available	

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			classification			
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 sufficient for classification	similar health hazards	NOAEL not available	

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**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 system	Not classified	Mouse	NOAEL 1,000 mg/kg/day	103 weeks
Ethylbenzene	Inhalation	kidney and/or bladder	Some positive data exist, but the	Rat	NOAEL 1.1 mg/l	2 years

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			data are not sufficient for classification			
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
Nickel salts of naphthenic acids	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	similar compounds	NOAEL not available	13 weeks
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	Not classified	Rat	NOAEL 50 mg/kg/day	90 days

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		kidney and/or 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 2: Toxic to aquatic life.

### Chronic aquatic hazard:

GHS Chronic 2: Toxic to aquatic life with long lasting effects.

No product test data available.

Material	CAS Number	Organism	Type	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	88917-22-0	Water flea	Experimental	48 hours	LC50	1,090 mg/l

Dipropylene glycol   S917-22-0   Green algae   Experimental   72 hours   NOEC   1,000 mg/l   methyl chefa   Notation	acetate						1
March   Company   Compan		88017 22 0	Green algae	Evperimental	72 hours	NOEC	11 000 mg/l
Data not available   N/A   N		00917-22-0	Oreen algae	Experimental	72 Hours	NOEC	1,000 mg/1
Viryal accentace-viryal   Trade Secret   Air   Data not available of insufficient for both or insufficient for both ore							
alcohol-vimple   chloride polyme   chloride po		Trade Secret	N/A	Data not available	N/A	N/A	N/A
chloride polymer		Trade Secret	1771		14/11	14/11	17/21
1-Methoxy-2-   108-65-6   Activated studge   Experimental   30 minutes   EC10   1.000 mg/l morpoyl acetate   1-Methoxy-2-   108-65-6   Green algae   Experimental   72 hours   EC50   1.000 mg/l morpoyl acetate   1-Methoxy-2-   108-65-6   Rainbow trout   Experimental   96 hours   EC50   370 mg/l morpoyl acetate   1-Methoxy-2-   108-65-6   Green algae   Experimental   48 hours   EC50   370 mg/l morpoyl acetate   1-Methoxy-2-   108-65-6   Green algae   Experimental   72 hours   NOEC   1.000 mg/l morpoyl acetate   1-Methoxy-2-   108-65-6   Water flea   Experimental   72 hours   NOEC   100 mg/l mg/l morpoyl acetate   1-Methoxy-2-   108-65-6   Water flea   Experimental   48 hours   EC50   2.6 mg/l mg/l morpoyl acetate   1-Methoxy-2-   108-65-6   Water flea   Experimental   48 hours   EC50   2.6 mg/l mg/l morpoyl-acetate   131-56-6   Medaka   Experimental   48 hours   EC50   3.7 mg/l mg/l morpoyl-acetate   131-56-6   Water flea   Experimental   48 hours   EC50   3.7 mg/l mg/l morpoyl-acetate   131-56-6   Goldfish   Experimental   48 hours   EC50   7.86 mg/l mg/l morpoyl-acetate   131-56-6   Goldfish   Experimental   48 hours   EC50   9.14 mg/l mg/l morpoyl-acetate   131-56-6   Ciliated protozoa							
pixepy lacetale		108-65-6	Activated sludge		30 minutes	EC10	>1 000 mg/l
1-Methoxy-2-   108-65-6   Green algue   Experimental   72 hours   ECSO   > 1.000 mg/l   mpropyl acetate   1-Methoxy-2-   108-65-6   Rainbow trout   Experimental   96 hours   ECSO   134 mg/l		100 05 0	l'ionvaled sidage	Experimentar	50 mmaces	Lero	1,000 mg 1
propyl acetale		108-65-6	Green algae	Experimental	72 hours	ErC50	>1 000 mg/l
1-Methoxy-2-   108-65-6		100 00 0	oreen argue	Z.iperimentar	/2 nours	E. C. C	1,000 mg 1
		108-65-6	Rainbow trout	Experimental	96 hours	LC50	134 mg/l
1-Methoxy-2-   108-65-6				F			
		108-65-6	Water flea	Experimental	48 hours	EC50	370 mg/l
1-Methoxy-2-   108-65-6   Green algae   Experimental   72 hours   NOEC   1,000 mg/l				1			
		108-65-6	Green algae	Experimental	72 hours	NOEC	1,000 mg/l
1-Methoxy-2-   108-65-6				•			
	1-Methoxy-2-	108-65-6	Water flea	Experimental	21 days	NOEC	100 mg/l
Dihydroxybenzoph enone 2,4- Dihydroxybenzoph enone 131-56-6 Ciliated protozoa Experimental 28 days NOEC 0.48 mg/l Dihydroxybenzoph enone 0,7- Corganic pigment Trade Secret Green algae Analogous 72 hours ErC50 9.14 mg/l Organic pigment Trade Secret Water flea Analogous 88 hours EC30 100 mg/l Organic pigment Trade Secret Activated sludge Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Green algae Analogous 72 hours NOEC -2100 mg/l Organic pigment Trade Secret Activated sludge Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Green algae Analogous 72 hours NOEC -2100 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -26 mg/l Nylene 1330-20-7 Water flea Estimated 72 hours NOEC 157 mg/l Nylene 1330-20-7 Water flea Estimated 96 hours EC30 -26 mg/l Nylene 1330-20-7 Rainbow trout Estimated 96 hours EC30 -43.6 mg/l Nylene 130-20-7 Rainbow trout Estimated 96 hours EC30 -43.6 mg/l Dihylenezne 100-41-4 Rainbow trout Estimated 96 hours EC3				_			
Dihydroxybenzoph enone 2,4- Dihydroxybenzoph enone 131-56-6 Ciliated protozoa Experimental 28 days NOEC 0.48 mg/l Dihydroxybenzoph enone 0,7- Corganic pigment Trade Secret Green algae Analogous 72 hours ErC50 9.14 mg/l Organic pigment Trade Secret Water flea Analogous 88 hours EC30 100 mg/l Organic pigment Trade Secret Activated sludge Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Green algae Analogous 72 hours NOEC -2100 mg/l Organic pigment Trade Secret Activated sludge Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Green algae Analogous 72 hours NOEC -2100 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -25,000 mg/l Organic pigment Trade Secret Jebra Experimental 96 hours EC30 -26 mg/l Nylene 1330-20-7 Water flea Estimated 72 hours NOEC 157 mg/l Nylene 1330-20-7 Water flea Estimated 96 hours EC30 -26 mg/l Nylene 1330-20-7 Rainbow trout Estimated 96 hours EC30 -43.6 mg/l Nylene 130-20-7 Rainbow trout Estimated 96 hours EC30 -43.6 mg/l Dihylenezne 100-41-4 Rainbow trout Estimated 96 hours EC3	2,4-	131-56-6	Copepod	Experimental	48 hours	LC50	2.6 mg/l
131-56-6   Medaka   Experimental   96 hours   LC50   3.7 mg/l	Dihydroxybenzoph						
Dihydroxybenzoph enone							
	2,4-	131-56-6	Medaka	Experimental	96 hours	LC50	3.7 mg/l
2,4	Dihydroxybenzoph						
Dihydroxybenzoph enone   131-56-6   Goldfish   Experimental   28 days   NOEC   0.48 mg/l   Dihydroxybenzoph enone   2,4   131-56-6   Ciliated protozoa   Experimental   48 hours   IC50   9.14 mg/l   Dihydroxybenzoph enone   Trade Secret   Green algae   Analogous   72 hours   ErC50   >100 mg/l   Compound   Trade Secret   Water flea   Analogous   48 hours   EC50   >100 mg/l   Compound   Trade Secret   Activated sludge   Experimental   30 minutes   EC20   >700 mg/l   Corganic pigment   Trade Secret   Zebra Fish   Experimental   30 minutes   EC20   >700 mg/l   Corganic pigment   Trade Secret   Zebra Fish   Experimental   30 minutes   EC20   >700 mg/l   Corganic pigment   Trade Secret   Zebra Fish   Experimental   30 hours   IC50   >5,5000 mg/l   Corganic pigment   Trade Secret   Zebra Fish   Experimental   30 hours   IC50   >5,5000 mg/l   Corganic pigment   Trade Secret   Zebra Fish   Experimental   30 hours   IC50   >5,5000 mg/l   Compound   Trade Secret   Zebra Fish   Experimental   30 hours   IC50   >5,5000 mg/l   Compound   Trade Secret   Zebra Fish   Experimental   30 hours   IC50   >5,5000 mg/l   Compound   Trade Secret   Zebra Fish   Experimental   30 hours   IC50   Secret   Zebra Fish   Experimental   30 hours   IC50   Secret   Zebra Fish   Experimental   30 hours   IC50   2.6 mg/l   Xylene   1330-20-7   Green algae   Estimated   27 hours   IC50   2.6 mg/l   Xylene   1330-20-7   Water flea   Estimated   48 hours   IC50   2.6 mg/l   Xylene   1330-20-7   Rainbow trout   Estimated   56 days   NOEC   1.1 mg/l   Xylene   130-20-7   Water flea   Estimated   77 hours   IC50   2.6 mg/l   Ethylbenzene   100-41-4   Green algae   Estimated   73 hours   IC50   3.82 mg/l   Ethylbenzene   100-41-4   Green algae   Estimated   74 hours   IC50   3.82 mg/l   Ethylbenzene   100-41-4   Rainbow trout   Estimated   74 hours   IC50   2.5 mg/l   Ethylbenzene   100-41-4   Rainbow trout   Estimated   74 hours   IC50   2.5 mg/l   Ethylbenzene   100-41-4   Rainbow trout   Estimated   74 hours   IC50   2.5 mg/l   Ethylbenzene   100-41-4			1				
September		131-56-6	Water flea	Experimental	48 hours	LC50	7.86 mg/l
2.4	Dihydroxybenzoph						
Dihydroxybenzoph							
Experimental   As hours   C50   9,14 mg/l		131-56-6	Goldfish	Experimental	28 days	NOEC	0.48 mg/l
2,4							
Dihydroxybenzoph enone   Compound   Compou							
Proceedings   Process		131-56-6	Ciliated protozoa	Experimental	48 hours	IC50	9.14 mg/l
Organic pigment         Trade Secret         Green algae         Analogous Compound Compound         72 hours         ErC50         >100 mg/l           Organic pigment         Trade Secret         Water flea         Analogous Compound         48 hours         EC50         >100 mg/l           Organic pigment         Trade Secret         Activated sludge         Experimental         30 minutes         EC20         >700 mg/l           Organic pigment         Trade Secret         Green algae         Analogous         72 hours         NOEC         >=100 mg/l           Organic pigment         Trade Secret         Green algae         Analogous         72 hours         NOEC         >=100 mg/l           Xylene         1330-20-7         Activated sludge         Estimated         3 hours         NOEC         157 mg/l           Xylene         1330-20-7         Green algae         Estimated         72 hours         EC50         4.36 mg/l           Xylene         1330-20-7         Water flea         Estimated         48 hours         EC50         3.82 mg/l           Xylene         1330-20-7         Water flea         Estimated         48 hours         EC50         3.82 mg/l           Xylene         1330-20-7         Water flea         Estimated         7 days<	, , ,						
Compound		m 1 0			72.1	F. 050	100 7
Organic pigment         Trade Secret         Water flea         Analogous Compound         48 hours         EC50         >100 mg/l           Organic pigment         Trade Secret         Activated sludge         Experimental         30 minutes         EC20         >700 mg/l           Organic pigment         Trade Secret         Zebra Fish         Experimental         96 hours         LC50         >5,000 mg/l           Organic pigment         Trade Secret         Green algae         Analogous         72 hours         NOEC         >=100 mg/l           Xylene         1330-20-7         Activated sludge         Estimated         3 hours         NOEC         157 mg/l           Xylene         1330-20-7         Green algae         Estimated         72 hours         EC50         4.36 mg/l           Xylene         1330-20-7         Water flea         Estimated         48 hours         EC50         3.82 mg/l           Xylene         1330-20-7         Green algae         Estimated         72 hours         NOEC         0.44 mg/l           Xylene         1330-20-7         Rainbow trout         Estimated         72 hours         NOEC         0.44 mg/l           Xylene         1330-20-7         Water flea         Estimated         73 hours         EC50 <td>Organic pigment</td> <td>Trade Secret</td> <td>Green algae</td> <td></td> <td>72 hours</td> <td>ErC50</td> <td>&gt;100 mg/l</td>	Organic pigment	Trade Secret	Green algae		72 hours	ErC50	>100 mg/l
Organic pigment         Trade Secret         Activated sludge         Experimental         30 minutes         EC20         >700 mg/l           Organic pigment         Trade Secret         Zebra Fish         Experimental         96 hours         LC50         >5,000 mg/l           Organic pigment         Trade Secret         Green algae         Analogous         72 hours         NOEC         >=100 mg/l           Xylene         1330-20-7         Activated sludge         Estimated         3 hours         NOEC         157 mg/l           Xylene         1330-20-7         Rainbow trout         Estimated         96 hours         LC50         2.6 mg/l           Xylene         1330-20-7         Water flea         Estimated         48 hours         EC50         3.82 mg/l           Xylene         1330-20-7         Water flea         Estimated         72 hours         NOEC         0.44 mg/l           Xylene         1330-20-7         Rainbow trout         Estimated         72 hours         NOEC         0.44 mg/l           Xylene         1330-20-7         Rainbow trout         Estimated         75 days         NOEC         >1.3 mg/l           Xylene         1330-20-7         Water flea         Estimated         76 days         NOEC         >1.3	0 : : .	T. 1.C	XXX / CI		40.1	EGGO	. 100 //
Organic pigment         Trade Secret         Activated sludge         Experimental         30 minutes         EC20         >700 mg/l           Organic pigment         Trade Secret         Zebra Fish         Experimental         96 hours         LC50         ≥5,000 mg/l           Organic pigment         Trade Secret         Green algae         Analogous         72 hours         NOEC         >=100 mg/l           Xylene         1330-20-7         Activated sludge         Estimated         3 hours         NOEC         157 mg/l           Xylene         1330-20-7         Green algae         Estimated         72 hours         EC50         4.36 mg/l           Xylene         1330-20-7         Rainbow trout         Estimated         96 hours         LC50         2.6 mg/l           Xylene         1330-20-7         Water flea         Estimated         48 hours         EC50         3.82 mg/l           Xylene         1330-20-7         Water flea         Estimated         72 hours         NOEC         0.44 mg/l           Xylene         1330-20-7         Water flea         Estimated         74 ays         NOEC         0.44 mg/l           Xylene         1330-20-7         Water flea         Estimated         76 days         NOEC         0.96 mg/l<	Organic pigment	Trade Secret	Water flea		48 hours	EC50	>100 mg/l
Organic pigment         Trade Secret         Zebra Fish         Experimental         96 hours         LC50         >5,000 mg/l           Organic pigment         Trade Secret         Green algae         Analogous Compound         72 hours         NOEC         >=100 mg/l           Xylene         1330-20-7         Activated sludge         Estimated         3 hours         NOEC         157 mg/l           Xylene         1330-20-7         Green algae         Estimated         72 hours         EC50         4.36 mg/l           Xylene         1330-20-7         Rainbow trout         Estimated         96 hours         LC50         2.6 mg/l           Xylene         1330-20-7         Water flea         Estimated         48 hours         EC50         3.82 mg/l           Xylene         1330-20-7         Green algae         Estimated         72 hours         NOEC         0.44 mg/l           Xylene         1330-20-7         Rainbow trout         Estimated         76 days         NOEC         >1.3 mg/l           Ethylbenzene         100-41-4         Green algae         Estimated         73 hours         EC50         4.36 mg/l           Ethylbenzene         100-41-4         Water flea         Estimated         48 hours         EC50         13 mg/l<	0 : : .	T. 1.C	1 1 1 1	+	20 : .	EC20	. 700 //
Organic pigment         Trade Secret         Green algae         Analogous Compound         72 hours         NOEC         >=100 mg/l           Xylene         1330-20-7         Activated sludge         Estimated         3 hours         NOEC         157 mg/l           Xylene         1330-20-7         Green algae         Estimated         72 hours         EC50         4.36 mg/l           Xylene         1330-20-7         Water flea         Estimated         48 hours         EC50         3.82 mg/l           Xylene         1330-20-7         Green algae         Estimated         72 hours         NOEC         0.44 mg/l           Xylene         1330-20-7         Rainbow trout         Estimated         72 hours         NOEC         0.44 mg/l           Xylene         1330-20-7         Water flea         Estimated         74 kgys         NOEC         0.96 mg/l           Ethylbenzene         100-41-4         Green algae         Estimated         74 days         NOEC         0.96 mg/l           Ethylbenzene         100-41-4         Green algae         Estimated         73 hours         EC50         4.36 mg/l           Ethylbenzene         100-41-4         Activated sludge         Experimental         49 hours         EC50         130 mg/l <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Compound   Sylene   1330-20-7   Activated sludge   Estimated   3 hours   NOEC   157 mg/l							
Xylene         1330-20-7         Activated sludge         Estimated         3 hours         NOEC         157 mg/l           Xylene         1330-20-7         Green algae         Estimated         72 hours         EC50         4.36 mg/l           Xylene         1330-20-7         Rainbow trout         Estimated         96 hours         LC50         2.6 mg/l           Xylene         1330-20-7         Water flea         Estimated         48 hours         EC50         3.82 mg/l           Xylene         1330-20-7         Green algae         Estimated         72 hours         NOEC         0.44 mg/l           Xylene         1330-20-7         Rainbow trout         Estimated         56 days         NOEC         -1.3 mg/l           Xylene         1330-20-7         Water flea         Estimated         7 days         NOEC         -1.3 mg/l           Xylene         1330-20-7         Water flea         Estimated         7 days         NOEC         0.96 mg/l           Ethylbenzene         100-41-4         Green algae         Estimated         7 days         NOEC         0.96 mg/l           Ethylbenzene         100-41-4         Water flea         Estimated         48 hours         EC50         3.82 mg/l           Ethylben	Organic pigment	Trade Secret	Green algae		/2 hours	NOEC	>=100 mg/1
Xylene         1330-20-7         Green algae         Estimated         72 hours         EC50         4.36 mg/l           Xylene         1330-20-7         Rainbow trout         Estimated         96 hours         LC50         2.6 mg/l           Xylene         1330-20-7         Water flea         Estimated         48 hours         EC50         3.82 mg/l           Xylene         1330-20-7         Green algae         Estimated         72 hours         NOEC         0.44 mg/l           Xylene         1330-20-7         Rainbow trout         Estimated         7 days         NOEC         0.96 mg/l           Xylene         1330-20-7         Water flea         Estimated         7 days         NOEC         0.96 mg/l           Yylene         1330-20-7         Water flea         Estimated         7 days         NOEC         0.96 mg/l           Ethylbenzene         100-41-4         Green algae         Estimated         73 hours         EC50         4.36 mg/l           Ethylbenzene         100-41-4         Water flea         Estimated         48 hours         EC50         3.82 mg/l           Ethylbenzene         100-41-4         Rainbow trout         Estimated         73 hours         NOEC         0.44 mg/l           Eth	V 1	1220 20 7	A (		2.1	NOEG	157 /
Xylene         1330-20-7         Rainbow trout         Estimated         96 hours         LC50         2.6 mg/l           Xylene         1330-20-7         Water flea         Estimated         48 hours         EC50         3.82 mg/l           Xylene         1330-20-7         Green algae         Estimated         72 hours         NOEC         0.44 mg/l           Xylene         1330-20-7         Water flea         Estimated         56 days         NOEC         >1.3 mg/l           Xylene         1330-20-7         Water flea         Estimated         7 days         NOEC         0.96 mg/l           Ethylbenzene         100-41-4         Green algae         Estimated         73 hours         EC50         4.36 mg/l           Ethylbenzene         100-41-4         Rainbow trout         Estimated         96 hours         LC50         2.6 mg/l           Ethylbenzene         100-41-4         Water flea         Estimated         48 hours         EC50         3.82 mg/l           Ethylbenzene         100-41-4         Activated sludge         Experimental         49 hours         EC50         130 mg/l           Ethylbenzene         100-41-4         Rainbow trout         Estimated         73 hours         NOEC         0.44 mg/l      <							
Xylene         1330-20-7         Water flea         Estimated         48 hours         EC50         3.82 mg/l           Xylene         1330-20-7         Green algae         Estimated         72 hours         NOEC         0.44 mg/l           Xylene         1330-20-7         Rainbow trout         Estimated         56 days         NOEC         >1.3 mg/l           Xylene         1330-20-7         Water flea         Estimated         7 days         NOEC         0.96 mg/l           Ethylbenzene         100-41-4         Green algae         Estimated         73 hours         EC50         4.36 mg/l           Ethylbenzene         100-41-4         Rainbow trout         Estimated         96 hours         LC50         2.6 mg/l           Ethylbenzene         100-41-4         Water flea         Estimated         48 hours         EC50         3.82 mg/l           Ethylbenzene         100-41-4         Activated sludge         Experimental         49 hours         EC50         130 mg/l           Ethylbenzene         100-41-4         Rainbow trout         Estimated         73 hours         NOEC         0.44 mg/l           Ethylbenzene         100-41-4         Rainbow trout         Estimated         7 days         NOEC         >1.3 mg/l <td></td> <td></td> <td></td> <td><del> </del></td> <td></td> <td></td> <td></td>				<del> </del>			
Xylene         1330-20-7         Green algae         Estimated         72 hours         NOEC         0.44 mg/l           Xylene         1330-20-7         Rainbow trout         Estimated         56 days         NOEC         >1.3 mg/l           Xylene         1330-20-7         Water flea         Estimated         7 days         NOEC         0.96 mg/l           Ethylbenzene         100-41-4         Green algae         Estimated         73 hours         EC50         4.36 mg/l           Ethylbenzene         100-41-4         Rainbow trout         Estimated         96 hours         LC50         2.6 mg/l           Ethylbenzene         100-41-4         Water flea         Estimated         48 hours         EC50         3.82 mg/l           Ethylbenzene         100-41-4         Activated sludge         Experimental         49 hours         EC50         130 mg/l           Ethylbenzene         100-41-4         Green algae         Estimated         73 hours         NOEC         0.44 mg/l           Ethylbenzene         100-41-4         Rainbow trout         Estimated         56 days         NOEC         9.13 mg/l           Ethylbenzene         100-41-4         Water flea         Estimated         7 days         NOEC         9.9 mg/l <td></td> <td></td> <td></td> <td></td> <td></td> <td><u> </u></td> <td>Č</td>						<u> </u>	Č
Xylene1330-20-7Rainbow troutEstimated56 daysNOEC>1.3 mg/lXylene1330-20-7Water fleaEstimated7 daysNOEC0.96 mg/lEthylbenzene100-41-4Green algaeEstimated73 hoursEC504.36 mg/lEthylbenzene100-41-4Rainbow troutEstimated96 hoursLC502.6 mg/lEthylbenzene100-41-4Water fleaEstimated48 hoursEC503.82 mg/lEthylbenzene100-41-4Activated sludgeExperimental49 hoursEC50130 mg/lEthylbenzene100-41-4Green algaeEstimated73 hoursNOEC0.44 mg/lEthylbenzene100-41-4Rainbow troutEstimated56 daysNOEC>1.3 mg/lEthylbenzene100-41-4Water fleaEstimated7 daysNOEC0.96 mg/lNickel salts of naphthenic acids61788-71-4Fathead minnowEstimated96 hoursLC502.5 mg/lNickel salts of naphthenic acids61788-71-4Green algaeEstimated72 hoursErC500.44 mg/lNickel salts of naphthenic acids61788-71-4Water fleaEstimated48 hoursLC500.083 mg/lNickel salts of naphthenic acids61788-71-4Water fleaEstimated48 hoursLC500.083 mg/lNickel salts of naphthenic acids61788-71-4African clawed frogEstimated101 hoursEC100.54 mg/l	·			i	i	11000	10.44 "
Xylene         1330-20-7         Water flea         Estimated         7 days         NOEC         0.96 mg/l           Ethylbenzene         100-41-4         Green algae         Estimated         73 hours         EC50         4.36 mg/l           Ethylbenzene         100-41-4         Rainbow trout         Estimated         96 hours         LC50         2.6 mg/l           Ethylbenzene         100-41-4         Water flea         Estimated         48 hours         EC50         3.82 mg/l           Ethylbenzene         100-41-4         Activated sludge         Experimental         49 hours         EC50         130 mg/l           Ethylbenzene         100-41-4         Green algae         Estimated         73 hours         NOEC         0.44 mg/l           Ethylbenzene         100-41-4         Rainbow trout         Estimated         56 days         NOEC         >1.3 mg/l           Ethylbenzene         100-41-4         Water flea         Estimated         7 days         NOEC         >1.3 mg/l           Ethylbenzene         100-41-4         Water flea         Estimated         96 hours         LC50         2.5 mg/l           Nickel salts of naphthenic acids         61788-71-4         Fish         Estimated         96 hours         LC50 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
Ethylbenzene 100-41-4 Rainbow trout Estimated 96 hours LC50 2.6 mg/l  Ethylbenzene 100-41-4 Water flea Estimated 48 hours EC50 3.82 mg/l  Ethylbenzene 100-41-4 Water flea Estimated 48 hours EC50 3.82 mg/l  Ethylbenzene 100-41-4 Activated sludge Experimental 49 hours EC50 130 mg/l  Ethylbenzene 100-41-4 Green algae Estimated 73 hours NOEC 0.44 mg/l  Ethylbenzene 100-41-4 Rainbow trout Estimated 56 days NOEC >1.3 mg/l  Ethylbenzene 100-41-4 Water flea Estimated 7 days NOEC 0.96 mg/l  Nickel salts of 100-41-4 Fathead minnow Estimated 96 hours LC50 2.5 mg/l  Nickel salts of 161788-71-4 Fish Estimated 96 hours LC50 9.5 mg/l  Nickel salts of 161788-71-4 Green algae Estimated 72 hours ErC50 0.44 mg/l  Nickel salts of 161788-71-4 Green algae Estimated 72 hours ErC50 0.44 mg/l  Nickel salts of 161788-71-4 Water flea Estimated 72 hours ErC50 0.083 mg/l  Nickel salts of 161788-71-4 Water flea Estimated 48 hours LC50 0.083 mg/l  Nickel salts of 161788-71-4 Green algae Estimated 48 hours EC50 0.083 mg/l  Nickel salts of 161788-71-4 Stripped Estimated 48 hours EC50 0.083 mg/l  Nickel salts of 161788-71-4 Stripped Estimated 48 hours EC50 0.083 mg/l  Nickel salts of 161788-71-4 Stripped Estimated 101 hours EC10 0.54 mg/l	_						
Ethylbenzene 100-41-4 Rainbow trout Estimated 96 hours LC50 2.6 mg/l Ethylbenzene 100-41-4 Water flea Estimated 48 hours EC50 3.82 mg/l Ethylbenzene 100-41-4 Activated sludge Experimental 49 hours EC50 130 mg/l Ethylbenzene 100-41-4 Green algae Estimated 73 hours NOEC 0.44 mg/l Ethylbenzene 100-41-4 Rainbow trout Estimated 56 days NOEC >1.3 mg/l Ethylbenzene 100-41-4 Water flea Estimated 7 days NOEC 0.96 mg/l Nickel salts of naphthenic acids Nickel salts of naphthenic nacids Nicke							
Ethylbenzene 100-41-4 Water flea Estimated 48 hours EC50 3.82 mg/l  Ethylbenzene 100-41-4 Activated sludge Experimental 49 hours EC50 130 mg/l  Ethylbenzene 100-41-4 Green algae Estimated 73 hours NOEC 0.44 mg/l  Ethylbenzene 100-41-4 Rainbow trout Estimated 56 days NOEC >1.3 mg/l  Ethylbenzene 100-41-4 Water flea Estimated 7 days NOEC 0.96 mg/l  Nickel salts of 61788-71-4 Fathead minnow Estimated 96 hours LC50 2.5 mg/l  naphthenic acids 61788-71-4 Green algae Estimated 72 hours ErC50 0.44 mg/l  Nickel salts of 61788-71-4 Green algae Estimated 72 hours ErC50 0.44 mg/l  Nickel salts of 61788-71-4 Green algae Estimated 72 hours ErC50 0.083 mg/l  Nickel salts of 61788-71-4 Water flea Estimated 48 hours LC50 0.083 mg/l  Nickel salts of 61788-71-4 Fathead Estimated 48 hours ErC50 0.083 mg/l  Nickel salts of 61788-71-4 Fathead Estimated 48 hours EC10 0.54 mg/l							
Ethylbenzene 100-41-4 Activated sludge Experimental 49 hours EC50 130 mg/l Ethylbenzene 100-41-4 Green algae Estimated 73 hours NOEC 0.44 mg/l Ethylbenzene 100-41-4 Rainbow trout Estimated 56 days NOEC >1.3 mg/l Ethylbenzene 100-41-4 Water flea Estimated 7 days NOEC 0.96 mg/l Nickel salts of naphthenic acids Nickel salts of naphthenic nacids N				<del></del>			Ŭ
Ethylbenzene 100-41-4 Green algae Estimated 73 hours NOEC 0.44 mg/l  Ethylbenzene 100-41-4 Rainbow trout Estimated 56 days NOEC >1.3 mg/l  Ethylbenzene 100-41-4 Water flea Estimated 7 days NOEC 0.96 mg/l  Nickel salts of naphthenic acids Nickel salts of naphthenic nacids Nic				<del>.</del>			
Ethylbenzene 100-41-4 Rainbow trout Estimated 56 days NOEC >1.3 mg/l Ethylbenzene 100-41-4 Water flea Estimated 7 days NOEC 0.96 mg/l Nickel salts of naphthenic acids Fathead minnow Estimated 96 hours LC50 2.5 mg/l Nickel salts of naphthenic acids Fish Estimated 96 hours LC50 9.5 mg/l Nickel salts of naphthenic acids Fish Estimated 72 hours ErC50 0.44 mg/l Nickel salts of naphthenic acids Nickel salts of naphthenic nacids Nickel salts nacidate Nickel salts nacidate Nick							
Ethylbenzene 100-41-4 Water flea Estimated 7 days NOEC 0.96 mg/l Nickel salts of naphthenic acids Nickel salts of naphthenic naphthe			<del> </del>				
Nickel salts of naphthenic acids							
naphthenic acids  Nickel salts of naphthenic acids				<del> </del>			
Nickel salts of naphthenic acids		61788-71-4	Fathead minnow	Estimated	96 hours	LC50	2.5 mg/l
naphthenic acids Nickel salts of naphthenic acids							
Nickel salts of naphthenic acids		61788-71-4	Fish	Estimated	96 hours	LC50	9.5 mg/l
naphthenic acids  Nickel salts of naphthenic acids							
Nickel salts of naphthenic acids		61788-71-4	Green algae	Estimated	72 hours	ErC50	0.44 mg/l
naphthenic acids  Nickel salts of naphthenic acids  Frog  Nickel salts of naphthenic acids	naphthenic acids						
Nickel salts of naphthenic acids 61788-71-4 African clawed frog Estimated 101 hours EC10 0.54 mg/l		61788-71-4	Water flea	Estimated	48 hours	LC50	0.083 mg/l
naphthenic acids frog	naphthenic acids						
		61788-71-4	1	Estimated	101 hours	EC10	0.54 mg/l
Nickel salts of 61788-71-4 Green algae Estimated 72 hours ErC10 0.031 mg/l							1
	Nickel salts of	61788-71-4	Green algae	Estimated	72 hours	ErC10	[0.031 mg/l

nonhthania saida	1		1			<u> </u>
naphthenic acids Nickel salts of	61788-71-4	Scud	Estimated	28 days	EC10	522 mg/l
naphthenic acids	01/00-/1-4	Scuu	Louinacu	20 days	LCIO	322 mg/1
Nickel salts of naphthenic acids	61788-71-4	Water flea	Estimated	7 days	EC10	0.007 mg/l
Nickel salts of naphthenic acids	61788-71-4	Zebra Fish	Estimated	8 days	NOEC	0.25 mg/l
Nickel salts of naphthenic acids	61788-71-4	Activated sludge	Estimated	30 minutes	EC50	210 mg/l
Nickel salts of naphthenic acids	61788-71-4	Mallard Duck	Estimated	90 days	NOEC	1,274 ppm diet
Nickel salts of naphthenic acids	61788-71-4	Redworm	Estimated	28 days	EC10	303 mg/kg (Dry Weight)
Nickel salts of naphthenic acids	61788-71-4	Soil microbes	Estimated	28 days	EC10	102 mg/kg (Dry Weight)
Nickel salts of naphthenic acids	61788-71-4	Springtail	Estimated	28 days	NOEC	232 mg/kg (Dry Weight)
Nickel salts of naphthenic acids	61788-71-4	Tomato	Estimated	21 days	NOEC	70 mg/kg (Dry Weight)
Bis (2, 2, 6, 6- tetramethyl-4- piperidinyl) sebacate	52829-07-9	Bluegill	Experimental	96 hours	LC50	4.4 mg/l
Bis (2, 2, 6, 6-tetramethyl-4-piperidinyl) sebacate	52829-07-9	Green algae	Experimental	72 hours	EC50	0.705 mg/l
Bis (2, 2, 6, 6-tetramethyl-4-piperidinyl) sebacate	52829-07-9	Water flea	Experimental	48 hours	EC50	8.58 mg/l
Bis (2, 2, 6, 6-tetramethyl-4-piperidinyl) sebacate	52829-07-9	Green algae	Experimental	72 hours	EC10	0.188 mg/l
Bis (2, 2, 6, 6-tetramethyl-4-piperidinyl) sebacate	52829-07-9	Water flea	Experimental	21 days	NOEC	0.23 mg/l
Bis (2, 2, 6, 6-tetramethyl-4-piperidinyl) sebacate	52829-07-9	Activated sludge	Experimental	3 hours	IC50	>100
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	Green algae	Estimated	72 hours	EC50	>100 mg/l
Poly(oxy-1,2- ethanediyl), $\alpha$ -[3- [3-(2H- benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1- oxopropyl]- $\omega$ - hydroxy-	104810-48-2	Rainbow trout	Estimated	96 hours	LC50	2.8 mg/l
Poly(oxy-1,2- ethanediyl), $\alpha$ -[3- [3-(2H- benzotriazol-2-yl)- 5-(1,1- dimethylethyl)-4- hydroxyphenyl]-1-	104810-48-2	Water flea	Estimated	48 hours	EC50	4 mg/l

_						
oxopropyl]-ω- hydroxy-						
	104810-48-2	A ativiate d aludas	Evmonimontal	2 hours	EC50	>1.000 mg/l
Poly(oxy-1,2-	104810-48-2	Activated sludge	Experimental	3 hours	EC30	>1,000 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	Green algae	Estimated	72 hours	EC10	10 mg/l
	104610-46-2	Green argae	Estillated	/2 Hours	ECTO	10 mg/1
ethanediyl), α-[3-						
[3-(2H-						
benzotriazol-2-yl)-						
5-(1,1-						
dimethylethyl)-4-						
hydroxyphenyl]-1-						
oxopropyl]-ω-						
hydroxy-	104040 40 5	TYY	In a second	21.1	hiona	0.70
Poly(oxy-1,2-	104810-48-2	Water flea	Estimated	21 days	NOEC	0.78 mg/l
ethanediyl), α-[3-						
[3-(2H-						
benzotriazol-2-yl)-						
5-(1,1-						
dimethylethyl)-4-						1
hydroxyphenyl]-1-						
oxopropyl]-ω-						
hydroxy-						
Polymeric	104810-47-1	Green algae	Estimated	72 hours	EC50	>100 mg/l
benzotriazole						
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	104010-47-1	water nea	Limated	To nouis	LC30	4 Hig/1
	104010 47 1	A 41 4 1 1 1	г	2.1	EC50	> 1.000 //
Polymeric	104810-47-1	Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l
benzotriazole						
Polymeric	104810-47-1	Green algae	Estimated	72 hours	EC10	10 mg/l
benzotriazole						
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	20,01 .0 0	Tremvarea staage	Z.iperimentar	5 Hours	1.020	oo mg i
	26761 45 5	C 1	г	72.1	E 050	2.0 //
2,3-epoxypropyl	26761-45-5	Green algae	Experimental	72 hours	ErC50	2.9 mg/l
neodecanoate						
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		1	r			
2,3-epoxypropyl	26761-45-5	Green algae	Experimental	96 hours	NOEC	1 mg/l
neodecanoate	20/01-73-3	Jacon aigac	Experimental	70 nouis	LIVELO	1 1115/1
	126.51.6	A 4' 4 1 1 1	T C +:	20	EC20	740 /
Calcium 2-	136-51-6	Activated sludge	Transformation	30 minutes	EC20	740 mg/l
ethylhexanoate	ļ	1	Product	<del> </del>	ļ	
Calcium 2-	136-51-6	Green algae	Transformation	72 hours	ErC50	56 mg/l
ethylhexanoate	<u> </u>	<u> </u>	Product	<u></u>		
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
	130-31-0	, vaici iica		70 HOUIS	LCSU	/ ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
ethylhexanoate	126.51.6	G 1	Product	061	IT CIA	20 //
Calcium 2-	136-51-6	Green algae	Transformation	96 hours	ErC10	28 mg/l
ethylhexanoate		1	Product	1		
Calcium 2-	136-51-6	Water flea	Transformation	21 days	NOEC	28 mg/l
ethylhexanoate			Product			1
Phosphonic acid,	4712-55-4	Green algae	Analogous	72 hours	EC50	>16 mg/l
diphenyl ester			Compound			
Phosphonic acid,	4712-55-4	Medaka	Analogous	96 hours	LC50	>4.3 mg/l
diphenyl ester	T/14-JJ-4	1 TOURK	Compound	70 Hours	LCSU	mg/i
	1712 55 4	Water fl	<del></del>	10 hav	EC50	0.45 mg/l
Phosphonic acid,	4712-55-4	Water flea	Analogous	48 hours	EC50	0.45 mg/l

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diphenyl ester			Compound			
Phosphonic acid,	4712-55-4	Green algae	Analogous	72 hours	NOEC	16 mg/l
diphenyl ester			Compound			
Zinc 2-	136-53-8	Rainbow trout	Experimental	96 hours	LC50	0.44 mg/l
ethylhexanoate						_
Zinc 2-	136-53-8	Water flea	Experimental	48 hours	EC50	1.6 mg/l
ethylhexanoate						_

# 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Cyclohexanone	108-94-1	Experimental Biodegradation	14 days	BOD	87 %BOD/ThOD	OECD 301C - MITI test (I)
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
Vinyl acetate-vinyl alcohol-vinyl chloride polymer	Trade Secret	Data not available- insufficient	N/A	N/A	N/A	N/A
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
2,4- Dihydroxybenzoph enone	131-56-6	Experimental Biodegradation	28 days	BOD	0 %BOD/ThOD	OECD 301C - MITI test (I)
Organic pigment	Trade Secret	Analogous Compound Biodegradation	28 days	BOD	<10 %BOD/ThOD	OECD 301F - Manometric respirometry
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)	
Ethylbenzene	100-41-4	Experimental Biodegradation	28 days	BOD	90- 98 %BOD/ThOD	OECD 301F - Manometric respirometry
Nickel salts of naphthenic acids	61788-71-4	Data not available- insufficient	N/A	N/A	N/A	N/A
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- hydroxyphenyl]-1- oxopropyl]-ω- hydroxy-	104810-48-2	Estimated Biodegradation	28 days	CO2 evolution	24 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
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	28 days	Dissolv. Organic Carbon Deplet	99 %removal of DOC	OECD 301E - Modif. OECD
etnymexanoate		product Biodegradation		Carbon Depiet	DOC	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
Vinyl acetate-vinyl alcohol-vinyl chloride polymer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
1-Methoxy-2- propyl acetate	108-65-6	Experimental Bioconcentration		Log Kow	0.36	OECD 107 log Kow shke flsk mtd
2,4- Dihydroxybenzoph enone	131-56-6	Modeled Bioconcentration		Bioaccumulation factor	5.0	Catalogic <sup>TM</sup>
2,4- Dihydroxybenzoph enone	131-56-6	Modeled Bioconcentration		Log Kow	2.96	Episuite <sup>TM</sup>
Organic pigment	Trade Secret	Estimated Bioconcentration		Log Kow	1.3	
Xylene	1330-20-7	Experimental BCF - Fish	56 days	Bioaccumulation factor	25.9	
Ethylbenzene	100-41-4	Experimental BCF - Fish	56 days	Bioaccumulation factor	25.9	
Nickel salts of naphthenic acids	61788-71-4	Analogous Compound Bioconcentration	180 days	Bioaccumulation factor	4	
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 neodecanoate	26761-45-5	Modeled Bioconcentration		Bioaccumulation factor	28	Catalogic™
Calcium 2- ethylhexanoate	136-51-6	Transformation product Bioconcentration		Log Kow	2.7	similar to OECD 107
Phosphonic acid, diphenyl ester	4712-55-4	Modeled Bioconcentration		Log Kow	2.4	Episuite <sup>TM</sup>
Zinc 2- ethylhexanoate	136-53-8	Estimated Bioconcentration		Log Kow	2.7	

## 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.

**Poison Schedule:** This product is intended for Industrial or Professional Use only and therefore is not packaged and labelled in accordance with the requirements of the Standard for the Uniform Scheduling of Medicines and Poisons.

## **SECTION 16: Other information**

## Revision information:

## 3M Process Colour 990-12, Red

Complete document review.

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