

# Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

### **SECTION 1: Identification**

### 1.1. Product identifier

3M<sup>TM</sup> Process Color 880I Toner

#### **Product Identification Numbers**

75-0301-1085-4 XH-0007-0044-9

### 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 New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland

**Telephone:** (09) 477 4040

E Mail: innovation@nz.mmm.com

Website: 3m.co.nz

### 1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

### **SECTION 2: Hazard identification**

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.

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

### 2.1. Classification of the substance or mixture

Flammable Liquids: Category 3 Serious eye damage: Category 1 Carcinogenicity: Category 2 Reproductive Toxicity: Category 1

Hazardous to the aquatic environment chronic: Category 2

### 2.2. Label elements

### SIGNAL WORD

Danger

### **Symbols:**

Flame | Corrosion | Health Hazard | Environment |

### **Pictograms**



### **HAZARD STATEMENTS:**

H226 Flammable liquid and vapour.

H318 Causes serious eye damage. H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

H411 Toxic to aquatic life with long lasting effects.

### PRECAUTIONARY STATEMENTS

Prevention

P201 Obtain special instructions before use.

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

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

smoking.

P233 Keep container tightly closed.

P240 Ground 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.
P273 Avoid release to the environment.
P280F Wear respiratory protection.

Response

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

with water or shower.

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 CENTER or doctor/physician.

P370 + P378 In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry

chemical or carbon dioxide to extinguish.

P391 Collect spillage.

**Storage** 

P403 + P235 Store 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.

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

Ingredient	CAS Nbr	% by Weight
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	88917-22-0	30 - 60
Acrylic polymers	Trade Secret	10 - 30
2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate	28262-63-7	10 - 30
and methyl 2-methyl-2-propenoate		
1-Methoxy-2-propyl acetate	108-65-6	5 - 10
Cyclohexanone	108-94-1	5 - 9
3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl)-2,5-pyrrolidinedione	79720-19-7	0.1 - 1
n-Butyl methacrylate	97-88-1	< 0.4
Ethylbenzene	100-41-4	< 0.2
Toluene	108-88-3	< 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.

### Eve 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.

A product risk assessment is recommended to determine if eye wash facilities may be required when using this product in the workplace.

### If swallowed

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

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

The most important symptoms and effects based on the CLP classification include:

## 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.

### 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.

**5.4. 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 vapors 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**

Refer to Section 15 - Controls for more information

### 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. Avoid release to the environment. 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 vapor 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. Protect from sunlight. Store away from heat. Store away from oxidising agents.

#### 7.3. Certified handler

Not required

# **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

Ingradient	CAS Nbr	Agonov	I imit tyna	Additional comments
Ingredient		Agency	Limit type	
Ethylbenzene	100-41-4	ACGIH	TWA:20 ppm	A3: Confirmed animal carcin., Ototoxicant
Ethylbenzene	100-41-4	New Zealand WES	TWA(8 hours):88 mg/m3(20 ppm);STEL(15 minutes):176 mg/m3(40 ppm)	Skin
1-Methoxy-2-propyl acetate	108-65-6	AIHA	TWA:50 ppm	
Toluene	108-88-3	ACGIH	TWA:20 ppm	A4: Not class. as human carcinogen, Ototoxicant
Toluene	108-88-3	New Zealand WES	TWA(8 hours):75 mg/m3(20 ppm);STEL(15 minutes):377 mg/m3(100 ppm)	Skin
Cyclohexanone	108-94-1	ACGIH	TWA:20 ppm;STEL:50 ppm	A3: Confirmed animal carcinogen, Danger of cutaneous absorption
Cyclohexanone	108-94-1	New Zealand WES	TWA(8 hours):100 mg/m3(25 ppm)	Skin

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines New Zealand WES: New Zealand Workplace Exposure Standards.

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit ppm: parts per million

mg/m³: milligrams per cubic metre

CEIL: Ceiling

### 8.2. Exposure controls

### 8.2.1. Engineering controls

Use explosion-proof ventilation equipment. 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.

### 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.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal eye-protection.

### 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

### 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 vapors

For questions about suitability for a specific application, consult with your respirator manufacturer.

Refer AS/NZS 1715 - Selection, use and maintenance of respiratory protective equipment and AS/NZS 1716 - Respiratory protective devices.

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

9.1. Information on basic physical and chemical properties

Colour Colourless Odour Sweet Ether Odour threshold No data available.  PH Not applicable.  Melting point/Freezing point Not applicable.  Melting point/Initial boiling point/Boiling range Flash point 42.2 °C [Test Method: Tagliabue closed cup]  Evaporation rate <= 0.4 [Ref Std: BUOAC=1]  Flammability (solid, gas) Not applicable.  Flammable Limits(LEL) 1.1 % volume  Flammable Limits(UEL) 8.6 % volume  Vapour pressure <= 493.3 Pa [@ 20 °C ]  Vapor Density and/or Relative Vapor Density No data available.  Density 0.95 g/ml  Relative density 0.95 [Ref Std: WATER=1]  Water solubility No data available.  Solubility- non-water No data available.  Partition coefficient: n-octanol/water No data available.  Partition temperature No data available.  Decomposition temperature No data available.  Viscosity/Kinematic Viscosity 1,000 - 1,200 mPa-s [Details: DTM-300 (#3 @ 30 rpm)]  Volatile organic compounds (VOC) 600 - 800 g/l [Details: As Packaged]  Percent volatile	Information on basic physical and chemical properties					
Colour Colourless Odour Sweet Ether Odour threshold No data available.  PH Not applicable.  Melting point/Freezing point Not applicable.  Melting point/Initial boiling point/Boiling range Flash point 42.2 °C [Test Method: Tagliabue closed cup]  Evaporation rate <= 0.4 [Ref Std: BUOAC=1]  Flammability (solid, gas) Not applicable.  Flammable Limits(LEL) 1.1 % volume  Flammable Limits(UEL) 8.6 % volume  Vapour pressure <= 493.3 Pa [@ 20 °C ]  Vapor Density and/or Relative Vapor Density No data available.  Density 0.95 g/ml  Relative density 0.95 [Ref Std: WATER=1]  Water solubility No data available.  Solubility- non-water No data available.  Partition coefficient: n-octanol/water No data available.  Partition temperature No data available.  Decomposition temperature No data available.  Viscosity/Kinematic Viscosity 1,000 - 1,200 mPa-s [Details: DTM-300 (#3 @ 30 rpm)]  Volatile organic compounds (VOC) 600 - 800 g/l [Details: As Packaged]  Percent volatile	Physical state	Liquid.				
Odour Meshold No data available.  PH Not applicable.  Melting point/Freezing point Not applicable.  Melting point/Initial boiling point/Boiling range >=140 °C  Flash point 42.2 °C [Test Method: Tagliabue closed cup]  Evaporation rate <=0.4 [Ref Std: BUOAC=1]  Flammability (solid, gas) Not applicable.  Flammable Limits(LEL) 1.1 % volume  Flammable Limits(UEL) 8.6 % volume  Vapour pressure <=493.3 Pa [@ 20 °C ]  Vapor Density and/or Relative Vapor Density No data available.  Density 0.95 g/ml  Relative density 0.95 [Ref Std: WATER=1]  Water solubility No data available.  Solubility-non-water No data available.  Partition coefficient: n-octanol/water No data available.  Partition temperature No data available.  Decomposition temperature No data available.  Viscosity/Kinematic Viscosity 1,000 - 1,200 mPa-s [Details: DTM-300 (#3 @ 30 rpm)]  Volatile organic compounds (VOC) 600 - 800 g/l [Details: As Packaged]  Percent volatile 1.0	Specific Physical Form:	Liquid.				
Odour Meshold No data available.  PH Not applicable.  Melting point/Freezing point Not applicable.  Melting point/Initial boiling point/Boiling range >=140 °C  Flash point 42.2 °C [Test Method: Tagliabue closed cup]  Evaporation rate <=0.4 [Ref Std: BUOAC=1]  Flammability (solid, gas) Not applicable.  Flammable Limits(LEL) 1.1 % volume  Flammable Limits(UEL) 8.6 % volume  Vapour pressure <=493.3 Pa [@ 20 °C ]  Vapor Density and/or Relative Vapor Density No data available.  Density 0.95 g/ml  Relative density 0.95 [Ref Std: WATER=1]  Water solubility No data available.  Solubility-non-water No data available.  Partition coefficient: n-octanol/water No data available.  Partition temperature No data available.  Decomposition temperature No data available.  Viscosity/Kinematic Viscosity 1,000 - 1,200 mPa-s [Details: DTM-300 (#3 @ 30 rpm)]  Volatile organic compounds (VOC) 600 - 800 g/l [Details: As Packaged]  Percent volatile 1.0 mills available.  Viscosity/Kinematic Viscosity 1,000 - 1,200 mPa-s [Details: DTM-300 (#3 @ 30 rpm)]						
Odour threshold No data available. pH Not applicable. Melting point/Freezing point Not applicable.  Molting point/Initial boiling point/Boiling range Flash point V=140 °C Flash point V=2.2 °C [Test Method: Tagliabue closed cup] Evaporation rate V=0.4 [Ref Std: BUOAC=1] Flammability (solid, gas) Not applicable. Flammable Limits(LEL) I.1 % volume Flammable Limits(UEL) Vapour pressure V=493.3 Pa [@ 20 °C ] Vapor Density and/or Relative Vapor Density No data available. Density No data available. Density No data available. Solubility- non-water No data available. Solubility- non-water No data available. Partition coefficient: n-octanol/water No data available. Decomposition temperature No data available. Viscosity/Kinematic Viscosity I,000 - 1,200 mPa-s [Details: DTM-300 (#3 @ 30 rpm)] Volatile organic compounds (VOC) 600 - 800 g/l [Details: As Packaged] Percent volatile	Colour	Colourless				
pH       Not applicable.         Melting point/Freezing point       Not applicable.         Boiling point/Initial boiling point/Boiling range       >=140 °C         Flash point       42.2 °C [Test Method:Tagliabue closed cup]         Evaporation rate       <=0.4 [Ref Std:BUOAC=1]	Odour	Sweet Ether				
Melting point/Freezing point  Boiling point/Initial boiling point/Boiling range  >=140 °C  Flash point  42.2 °C [Test Method: Tagliabue closed cup]  Evaporation rate  <=0.4 [Ref Std: BUOAC=1]  Flammability (solid, gas)  Not applicable.  Flammable Limits(LEL)  1.1 % volume  Flammable Limits(UEL)  8.6 % volume  Vapour pressure  <=49.3 Pa [@ 20 °C ]  Vapor Density and/or Relative Vapor Density  No data available.  Density  0.95 g/ml  Relative density  0.95 [Ref Std: WATER=1]  Water solubility  No data available.  No data available.  Partition coefficient: n-octanol/water  No data available.  No data available.  Viscosity/Kinematic Viscosity  1,000 - 1,200 mPa-s [Details: DTM-300 (#3 @ 30 rpm)]  Volatile organic compounds (VOC)  600 - 800 g/l [Details: As Packaged]  Percent volatile	Odour threshold	No data available.				
Boiling point/Initial boiling point/Boiling range  Flash point  42.2 °C [Test Method: Tagliabue closed cup]  Evaporation rate  <=0.4 [Ref Std: BUOAC=1]  Flammability (solid, gas)  Not applicable.  Flammable Limits(LEL)  1.1 % volume  Flammable Limits(UEL)  8.6 % volume  Vapour pressure  <=493.3 Pa [@ 20 °C ]  Vapor Density and/or Relative Vapor Density  No data available.  Density  0.95 g/ml  Relative density  0.95 [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.  Viscosity/Kinematic Viscosity  1,000 - 1,200 mPa-s [Details: As Packaged]  Percent volatile  65 - 75 %	рН	Not applicable.				
Flash point  42.2 °C [Test Method: Tagliabue closed cup]  Evaporation rate  42.2 °C [Test Method: Tagliabue closed cup]  Flammability (solid, gas)  Not applicable.  Flammable Limits(LEL)  1.1 % volume  Flammable Limits(UEL)  8.6 % volume  Vapour pressure  449.3 Pa [@ 20 °C]  Vapor Density and/or Relative Vapor Density  No data available.  Density  Relative density  0.95 [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.  Viscosity/Kinematic Viscosity  1,000 - 1,200 mPa-s [Details: DTM-300 (#3 @ 30 rpm)]  Volatile organic compounds (VOC)  600 - 800 g/l [Details: As Packaged]  Percent volatile	Melting point/Freezing point	Not applicable.				
Evaporation rate <=0.4 [Ref Std:BUOAC=1] Flammability (solid, gas) Not applicable. Flammable Limits(LEL) 1.1 % volume Flammable Limits(UEL) 8.6 % volume Vapour pressure <=493.3 Pa [@ 20 °C ] Vapor Density and/or Relative Vapor Density No data available.  Density 0.95 g/ml Relative density 0.95 [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 1,000 - 1,200 mPa-s [Details:DTM-300 (#3 @ 30 rpm)] Volatile organic compounds (VOC) 600 - 800 g/1 [Details: As Packaged] Percent volatile 65 - 75 %	Boiling point/Initial boiling point/Boiling range	>=140 °C				
Flammability (solid, gas)  Flammable Limits(LEL)  Flammable Limits(UEL)  No data available.  Vapour pressure  Vapor Density and/or Relative Vapor Density  No data available.  No data available.  No data available.  No data available.  Solubility- non-water  No data available.  Viconjition temperature  No data available.  No data available.	Flash point	42.2 °C [Test Method: Tagliabue closed cup]				
Flammable Limits(LEL)  Flammable Limits(UEL)  8.6 % volume <a href="#">2493.3 Pa @ 20 °C ]</a> Vapor Density and/or Relative Vapor Density  No data available.  Density  Relative density  0.95 [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.  No data available.  No data available.  Viscosity/Kinematic Viscosity  1,000 - 1,200 mPa-s [Details:DTM-300 (#3 @ 30 rpm)]  Volatile organic compounds (VOC)  600 - 800 g/l [Details:As Packaged]  Percent volatile	Evaporation rate	<=0.4 [Ref Std:BUOAC=1]				
Flammable Limits(UEL)  Vapour pressure  <=493.3 Pa [@ 20 °C ]  Vapor Density and/or Relative Vapor Density  No data available.  Density  0.95 g/ml  Relative density  0.95 [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.  No data available.  No data available.  Viscosity/Kinematic Viscosity  1,000 - 1,200 mPa-s [Details:DTM-300 (#3 @ 30 rpm)]  Volatile organic compounds (VOC)  600 - 800 g/l [Details:As Packaged]  Percent volatile	Flammability (solid, gas)	Not applicable.				
Vapor pressure  Vapor Density and/or Relative Vapor Density No data available. Density 0.95 g/ml Relative density Water solubility No data available. No data available. Solubility- non-water Partition coefficient: n-octanol/water No data available. No data available. Autoignition temperature No data available. No data available. No data available. No data available. Vo data available. No data available. No data available. Viscosity/Kinematic Viscosity 1,000 - 1,200 mPa-s [Details:DTM-300 (#3 @ 30 rpm)] Volatile organic compounds (VOC) 600 - 800 g/l [Details: As Packaged] Percent volatile	Flammable Limits(LEL)	1.1 % volume				
Vapor Density and/or Relative Vapor DensityNo data available.Density0.95 g/mlRelative density0.95 [Ref Std:WATER=1]Water solubilityNo data available.Solubility- non-waterNo data available.Partition coefficient: n-octanol/waterNo data available.Autoignition temperatureNo data available.Decomposition temperatureNo data available.Viscosity/Kinematic Viscosity1,000 - 1,200 mPa-s [Details:DTM-300 (#3 @ 30 rpm)]Volatile organic compounds (VOC)600 - 800 g/l [Details:As Packaged]Percent volatile65 - 75 %	Flammable Limits(UEL)	8.6 % volume				
Density  Relative density  0.95 [Ref Std:WATER=1]  Water solubility  No data available.  Solubility- non-water  No data available.  Partition coefficient: n-octanol/water  No data available.  Viscosity/Kinematic Viscosity  1,000 - 1,200 mPa-s [Details:DTM-300 (#3 @ 30 rpm)]  Volatile organic compounds (VOC)  600 - 800 g/l [Details:As Packaged]  Percent volatile  65 - 75 %	Vapour pressure	<=493.3 Pa [@ 20 °C ]				
Relative density  0.95 [Ref Std:WATER=1]  Water solubility  No data available.  Solubility- non-water  No data available.  Partition coefficient: n-octanol/water  No data available.  No data available.  No data available.  No data available.  Viscosity/Kinematic Viscosity  1,000 - 1,200 mPa-s [Details:DTM-300 (#3 @ 30 rpm)]  Volatile organic compounds (VOC)  600 - 800 g/l [Details:As Packaged]  Percent volatile  65 - 75 %	Vapor Density and/or Relative Vapor Density	No data available.				
Water solubility No data available.  No data available.  No data available.  Partition coefficient: n-octanol/water No data available.  Autoignition temperature No data available.  No data available.  No data available.  Viscosity/Kinematic Viscosity 1,000 - 1,200 mPa-s [Details:DTM-300 (#3 @ 30 rpm)]  Volatile organic compounds (VOC) 600 - 800 g/l [Details: As Packaged]  Percent volatile 65 - 75 %	Density	0.95 g/ml				
Solubility- non-water  Partition coefficient: n-octanol/water  No data available.  Viscosity/Kinematic Viscosity  1,000 - 1,200 mPa-s [Details:DTM-300 (#3 @ 30 rpm)]  Volatile organic compounds (VOC)  600 - 800 g/l [Details: As Packaged]  Percent volatile  65 - 75 %	Relative density	0.95 [Ref Std:WATER=1]				
Partition coefficient: n-octanol/waterNo data available.Autoignition temperatureNo data available.Decomposition temperatureNo data available.Viscosity/Kinematic Viscosity1,000 - 1,200 mPa-s [Details:DTM-300 (#3 @ 30 rpm)]Volatile organic compounds (VOC)600 - 800 g/l [Details: As Packaged]Percent volatile65 - 75 %	Water solubility	No data available.				
Autoignition temperatureNo data available.Decomposition temperatureNo data available.Viscosity/Kinematic Viscosity1,000 - 1,200 mPa-s [Details:DTM-300 (#3 @ 30 rpm)]Volatile organic compounds (VOC)600 - 800 g/l [Details: As Packaged]Percent volatile65 - 75 %	Solubility- non-water	No data available.				
Decomposition temperatureNo data available.Viscosity/Kinematic Viscosity1,000 - 1,200 mPa-s [Details:DTM-300 (#3 @ 30 rpm)]Volatile organic compounds (VOC)600 - 800 g/l [Details: As Packaged]Percent volatile65 - 75 %	Partition coefficient: n-octanol/water	No data available.				
Viscosity/Kinematic Viscosity1,000 - 1,200 mPa-s [Details:DTM-300 (#3 @ 30 rpm)]Volatile organic compounds (VOC)600 - 800 g/l [Details: As Packaged]Percent volatile65 - 75 %	Autoignition temperature	No data available.				
Volatile organic compounds (VOC)600 - 800 g/l [Details: As Packaged]Percent volatile65 - 75 %	Decomposition temperature	No data available.				
Percent volatile 65 - 75 %	Viscosity/Kinematic Viscosity	[1,000 - 1,200 mPa-s [Details:DTM-300 (#3 @ 30 rpm)]				
	Volatile organic compounds (VOC)	<u> </u>				
VOC less H2O & exempt solvents  No data available.	Percent volatile	65 - 75 %				
<u> </u>	VOC less H2O & exempt solvents	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 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

Sparks and/or flames.

### 10.5 Incompatible materials

Strong acids.

Strong oxidising agents.

### 10.6 Hazardous decomposition products

### Substance

Condition

None known.

Refer to Section 5.2 for hazardous decomposition products during combustion.

# **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

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

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

### 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:**

### 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 >5,000 mg/kg
Overall product	Inhalation- Vapor(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	Dermal	Rat	LD50 > 2,000 mg/kg
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 5.7 mg/l
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	Ingestion	Rat	LD50 > 5,000 mg/kg
2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2- propenoate and methyl 2-methyl-2-propenoate	Dermal		LD50 estimated to be > 5,000 mg/kg
2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2- propenoate and methyl 2-methyl-2-propenoate	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
1-Methoxy-2-propyl acetate	Dermal	Rabbit	LD50 > 5,000 mg/kg
1-Methoxy-2-propyl acetate	Inhalation- Vapor (4 hours)	Rat	LC50 > 28.8 mg/l
1-Methoxy-2-propyl acetate	Ingestion	Rat	LD50 8,532 mg/kg
Cyclohexanone	Dermal	Rabbit	LD50 >794, <3160 mg/kg
Cyclohexanone	Inhalation- Vapor (4 hours)	Rat	LC50 > 6.2 mg/l
Cyclohexanone	Ingestion	Rat	LD50 1,296 mg/kg
3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl)-2,5-pyrrolidinedione	Dermal	Rabbit	LD50 > 2,000 mg/kg
3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl)-2,5-pyrrolidinedione	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 5 mg/l
3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl)-2,5-pyrrolidinedione	Ingestion	Rat	LD50 > 2,000 mg/kg
n-Butyl methacrylate	Dermal	Rabbit	LD50 > 2,000 mg/kg
n-Butyl methacrylate	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 27 mg/l
n-Butyl methacrylate	Ingestion	Rat	LD50 > 2,000 mg/kg
Ethylbenzene	Dermal	Rabbit	LD50 15,433 mg/kg
Ethylbenzene	Inhalation- Vapor (4 hours)	Rat	LC50 17.4 mg/l
Ethylbenzene	Ingestion	Rat	LD50 4,769 mg/kg
Toluene	Dermal	Rat	LD50 12,000 mg/kg
Toluene	Inhalation- Vapor (4 hours)	Rat	LC50 30 mg/l
Toluene	Ingestion	Rat	LD50 5,550 mg/kg

 $\overline{ATE}$  = acute toxicity estimate

### **Skin Corrosion/Irritation**

Name	Species	Value
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	Rabbit	No significant irritation
1-Methoxy-2-propyl acetate	Rabbit	No significant irritation
Cyclohexanone	Rabbit	Irritant
3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl)-2,5-pyrrolidinedione	Rabbit	Corrosive
n-Butyl methacrylate	Rabbit	Irritant
Ethylbenzene	Rabbit	Mild irritant
Toluene	Rabbit	Irritant

**Serious Eye Damage/Irritation** 

Name	Species	Value
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	Rabbit	No significant irritation
1-Methoxy-2-propyl acetate	Rabbit	Mild irritant
Cyclohexanone	In vitro	Corrosive
	data	
3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl)-2,5-pyrrolidinedione	Rabbit	Corrosive
n-Butyl methacrylate	Rabbit	Mild irritant
Ethylbenzene	Rabbit	Moderate irritant
Toluene	Rabbit	Moderate irritant

### **Sensitisation:**

### **Skin Sensitisation**

Name	Species	Value	
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	Guinea	Not classified	
1-Methoxy-2-propyl acetate	Guinea pig	Not classified	
Cyclohexanone	Guinea pig	Not classified	
n-Butyl methacrylate	Guinea pig	Sensitising	
Ethylbenzene	Human	Not classified	
Toluene	Guinea pig	Not classified	

# **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		
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	In Vitro	Not mutagenic		
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	In vivo	Not mutagenic		
1-Methoxy-2-propyl acetate	In Vitro	Not mutagenic		
Cyclohexanone	In vivo	Not mutagenic		
Cyclohexanone	In Vitro	Some positive data exist, but the data are not		
		sufficient for classification		
3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl)-2,5-pyrrolidinedione	In Vitro	Not mutagenic		
n-Butyl methacrylate	In Vitro	Not mutagenic		
n-Butyl methacrylate	In vivo	Not mutagenic		
Ethylbenzene	In vivo	Not mutagenic		
Ethylbenzene	In Vitro	Some positive data exist, but the data are not		
•		sufficient for classification		
Toluene	In Vitro	Not mutagenic		
Toluene	In vivo	Not mutagenic		

Carcinogenicity

Name	Route	Species	Value
Cyclohexanone	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
n-Butyl methacrylate	Inhalation	Multiple animal species	Carcinogenic.
Ethylbenzene	Inhalation	Multiple animal species	Carcinogenic.
Toluene	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Toluene	Ingestion	Rat	Some positive data exist, but the data are not

			sufficient for classification
Toluene	Inhalation	Mouse	Some positive data exist, but the data are not
			sufficient for classification

# Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
1-Methoxy-2-propyl acetate	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
1-Methoxy-2-propyl acetate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
1-Methoxy-2-propyl acetate	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
1-Methoxy-2-propyl acetate	Inhalation	Not classified for development	Rat	NOAEL 21.6 mg/l	during organogenesis
Cyclohexanone	Inhalation	Not classified for female reproduction	Rat	NOAEL 4 mg/l	2 generation
Cyclohexanone	Inhalation	Not classified for male reproduction	Rat	NOAEL 2 mg/l	2 generation
Cyclohexanone	Ingestion	Not classified for development	Mouse	LOAEL 1,100 mg/kg/day	during organogenesis
Cyclohexanone	Inhalation	Not classified for development	Rat	NOAEL 2 mg/l	2 generation
n-Butyl methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	44 days
n-Butyl methacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 300 mg/kg/day	premating & during gestation
n-Butyl methacrylate	Ingestion	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during gestation
n-Butyl methacrylate	Inhalation	Not classified for development	Rat	NOAEL 1.8 mg/l	during gestation
Ethylbenzene	Inhalation	Not classified for development	Rat	NOAEL 4.3 mg/l	premating & during gestation
Toluene	Inhalation	Not classified for female reproduction	Human	NOAEL Not available	occupational exposure
Toluene	Inhalation	Not classified for male reproduction	Rat	NOAEL 2.3 mg/l	1 generation
Toluene	Ingestion	Toxic to development	Rat	LOAEL 520 mg/kg/day	during gestation
Toluene	Inhalation	Toxic to development	Human	NOAEL Not available	poisoning and/or abuse

# Target Organ(s)

**Specific Target Organ Toxicity - single exposure** 

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
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	
Cyclohexanone	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Guinea pig	LOAEL 16.1 mg/l	6 hours
Cyclohexanone	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for	Human	NOAEL Not available	

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			classification			
Cyclohexanone	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	
3-Dodecyl-1-(2,2,6,6- tetramethyl-4-piperidinyl)- 2,5-pyrrolidinedione	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
n-Butyl methacrylate	Inhalation	respiratory irritation	May cause respiratory irritation		NOAEL Not available	
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	
Toluene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Toluene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Toluene	Inhalation	immune system	Not classified	Mouse	NOAEL 0.004 mg/l	3 hours
Toluene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Propanol, 1(or 2)-(2- methoxymethylethoxy)-, 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
Cyclohexanone	Inhalation	liver   kidney and/or bladder	Not classified	Rabbit	NOAEL 0.76 mg/l	50 days
Cyclohexanone	Ingestion	liver	Not classified	Mouse	NOAEL 4,800 mg/kg/day	90 days
n-Butyl methacrylate	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 11 mg/l	28 days
n-Butyl methacrylate	Inhalation	olfactory system	Not classified	Rat	NOAEL 1.8 mg/l	28 days
n-Butyl methacrylate	Inhalation	heart   endocrine system   hematopoietic system   liver   nervous system   respiratory system	Not classified	Rat	NOAEL 11 mg/l	28 days
n-Butyl methacrylate	Ingestion	olfactory system	Not classified	Rat	NOAEL 60 mg/kg/day	90 days
n-Butyl methacrylate	Ingestion	endocrine system   hematopoietic system   liver   nervous system   kidney and/or bladder   heart   immune system	Not classified	Rat	NOAEL 360 mg/kg/day	90 days

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Ethylbenzene	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for	Rat	NOAEL 1.1 mg/l	2 years
		oladuci	classification		1118/1	
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
Toluene	Inhalation	auditory system   eyes   olfactory system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
Toluene	Inhalation	nervous system	May cause damage to organs though prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
Toluene	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 2.3 mg/l	15 months
Toluene	Inhalation	heart   liver   kidney and/or bladder	Not classified	Rat	NOAEL 11.3 mg/l	15 weeks
Toluene	Inhalation	endocrine system	Not classified	Rat	NOAEL 1.1 mg/l	4 weeks
Toluene	Inhalation	immune system	Not classified	Mouse	NOAEL Not available	20 days
Toluene	Inhalation	bone, teeth, nails, and/or hair	Not classified	Mouse	NOAEL 1.1 mg/l	8 weeks
Toluene	Inhalation	hematopoietic system   vascular system	Not classified	Human	NOAEL Not available	occupational exposure
Toluene	Inhalation	gastrointestinal tract	Not classified	Multiple animal species	NOAEL 11.3 mg/l	15 weeks
Toluene	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 625 mg/kg/day	13 weeks
Toluene	Ingestion	heart	Not classified	Rat	NOAEL 2,500 mg/kg/day	13 weeks
Toluene	Ingestion	liver   kidney and/or bladder	Not classified	Multiple animal species	NOAEL 2,500 mg/kg/day	13 weeks
Toluene	Ingestion	hematopoietic system	Not classified	Mouse	NOAEL 600 mg/kg/day	14 days
Toluene	Ingestion	endocrine system	Not classified	Mouse	NOAEL 105 mg/kg/day	28 days
Toluene	Ingestion	immune system	Not classified	Mouse	NOAEL 105 mg/kg/day	4 weeks

## **Aspiration Hazard**

Name	Value
Ethylbenzene	Aspiration hazard
Toluene	Aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information

on this material and/or its components.

# **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

Ecotoxic to the aquatic environment.

Acute Aquatic Toxicity: Category 2 Chronic Aquatic Toxicity: Category 2

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Propanol, 1(or 2)-(2-methoxymethyl	88917-22-0	Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l
ethoxy)-,						
acetate						
Propanol, 1(or 2)-(2-methoxymethyl	88917-22-0	Green algae	Experimental	72 hours	ErC50	>1,000 mg/l
ethoxy)-, acetate						
Propanol, 1(or 2)-(2- methoxymethyl ethoxy)-, acetate	88917-22-0	Rainbow trout	Experimental	96 hours	LC50	111 mg/l
Propanol, 1(or 2)-(2- methoxymethyl ethoxy)-, acetate	88917-22-0	Water flea	Experimental	48 hours	LC50	1,090 mg/l
Propanol, 1(or 2)-(2-methoxymethyl ethoxy)-, acetate	88917-22-0	Green algae	Experimental	72 hours	NOEC	1,000 mg/l
2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate	28262-63-7	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
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-	108-65-6	Rainbow trout	Experimental	96 hours	LC50	134 mg/l
propyl acetate	100.65.6	TT	D	40.1	FG50	0.50 /1
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
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		Algae or other aquatic plants	Experimental	72 hours	ErC10	3.56 mg/l
3-Dodecyl-1- (2,2,6,6- tetramethyl-4- piperidinyl)- 2,5- pyrrolidinedion e	79720-19-7	Common Carp	Experimental	96 hours	LC50	0.097 mg/l
3-Dodecyl-1- (2,2,6,6- tetramethyl-4- piperidinyl)- 2,5- pyrrolidinedion	79720-19-7	Green algae	Experimental	72 hours	ErC50	0.374 mg/l
3-Dodecyl-1- (2,2,6,6- tetramethyl-4- piperidinyl)- 2,5- pyrrolidinedion	79720-19-7	Water flea	Experimental	48 hours	EC50	0.501 mg/l
3-Dodecyl-1- (2,2,6,6- tetramethyl-4- piperidinyl)- 2,5- pyrrolidinedion e	79720-19-7	Green algae	Experimental	72 hours	ErC10	0.236 mg/l
3-Dodecyl-1- (2,2,6,6- tetramethyl-4- piperidinyl)- 2,5- pyrrolidinedion e	79720-19-7	Activated sludge	Experimental	3 hours	EC50	58.9 mg/l
n-Butyl methacrylate	97-88-1	Bacteria	Experimental	18 hours	EC50	>254 mg/l
n-Butyl	97-88-1	Green algae	Experimental	72 hours	EC50	31.2 mg/l

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methacrylate						
n-Butyl	97-88-1	Medaka	Experimental	96 hours	LC50	5.6 mg/l
methacrylate						
n-Butyl	97-88-1	Water flea	Experimental	48 hours	EC50	25 mg/l
methacrylate						
n-Butyl	97-88-1	Green algae	Experimental	72 hours	NOEC	24.8 mg/l
methacrylate						
n-Butyl	97-88-1	Water flea	Experimental	21 days	NOEC	1.1 mg/l
methacrylate						
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	Experimental	49 hours	EC50	130 mg/l
		sludge				
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
Toluene	108-88-3	Coho Salmon	Experimental	96 hours	LC50	5.5 mg/l
Toluene	108-88-3	Grass Shrimp	Experimental	96 hours	LC50	9.5 mg/l
Toluene	108-88-3	Green algae	Experimental	72 hours	EC50	12.5 mg/l
Toluene	108-88-3	Leopard frog	Experimental	9 days	LC50	0.39 mg/l
Toluene	108-88-3	Pink Salmon	Experimental	96 hours	LC50	6.41 mg/l
Toluene	108-88-3	Water flea	Experimental	48 hours	EC50	3.78 mg/l
Toluene	108-88-3	Coho Salmon	Experimental	40 days	NOEC	1.39 mg/l
Toluene	108-88-3	Diatom	Experimental	72 hours	NOEC	10 mg/l
Toluene	108-88-3	Water flea	Experimental	7 days	NOEC	0.74 mg/l
Toluene	108-88-3	Activated	Experimental	12 hours	IC50	292 mg/l
		sludge	-			
Toluene	108-88-3	Bacteria	Experimental	16 hours	NOEC	29 mg/l
Toluene	108-88-3	Bacteria	Experimental	24 hours	EC50	84 mg/l
Toluene	108-88-3	Redworm	Experimental	28 days	LC50	>150 mg per kg of
						bodyweight
Toluene	108-88-3	Soil microbes	Experimental	28 days	NOEC	<26 mg/kg (Dry
						Weight)

# 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Propanol, 1(or	88917-22-0	Analogous	28 days	Dissolv.	90 % removal	OECD 301F -
2)-(2-		Compound		Organic	of DOC	Manometric
methoxymethyl		Biodegradation		Carbon Deplet		respirometry
ethoxy)-,						
acetate						
2-Propenoic	28262-63-7	Data not	N/A	N/A	N/A	N/A
acid, 2-methyl-,		availbl-				
polymer with		insufficient				
butyl 2-methyl-						
2-propenoate						
and methyl 2-						
methyl-2-						
propenoate						
1-Methoxy-2-	108-65-6	Experimental	28 days	BOD	87.2 %BOD/Th	OECD 301C - MITI
propyl acetate		Biodegradation			OD	test (I)
1-Methoxy-2-	108-65-6	Experimental		Dissolv.	>100 %	similar to OECD 302B

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propyl acetate		Aquatic Inherent Biodegrad.		Organic Carbon Deplet	removal of DOC	
Cyclohexanone	108-94-1	Experimental Biodegradation	14 days	BOD	D	OECD 301C - MITI test (I)
3-Dodecyl-1- (2,2,6,6- tetramethyl-4- piperidinyl)- 2,5- pyrrolidinedion e	79720-19-7	Experimental Biodegradation	28 days	CO2 evolution	0 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
3-Dodecyl-1- (2,2,6,6- tetramethyl-4- piperidinyl)- 2,5- pyrrolidinedion e	79720-19-7	Experimental Aquatic Inherent Biodegrad.	28 days	BOD	3 %BOD/ThO D	OECD 302C - Modified MITI (II)
3-Dodecyl-1- (2,2,6,6- tetramethyl-4- piperidinyl)- 2,5- pyrrolidinedion e	79720-19-7	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>1 years (t 1/2)	OECD 111 Hydrolysis func of pH
n-Butyl methacrylate	97-88-1	Experimental Biodegradation	28 days	BOD	88 %BOD/ThO D	OECD 301C - MITI test (I)
Ethylbenzene	100-41-4	Experimental Biodegradation	28 days	BOD	90- 98 %BOD/ThO D	OECD 301F -
Toluene	108-88-3	Experimental Biodegradation	20 days	BOD	80 %BOD/ThO D	APHA Std Meth Water/Wastewater
Toluene	108-88-3	Experimental Photolysis		Photolytic half- life (in air)	5.2 days (t 1/2)	

# 12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
2)-(2-	88917-22-0	Experimental Bioconcentrati		Log Kow	0.61	EC A.8 Partition Coefficient
methoxymethyl ethoxy)-, acetate		on				
2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl- 2-propenoate and methyl 2- methyl-2- propenoate		Data not available or insufficient for classification	N/A	N/A	N/A	N/A
1-Methoxy-2- propyl acetate	108-65-6	Experimental Bioconcentrati on		Log Kow	0.36	OECD 107 log Kow shke flsk mtd

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Cyclohexanone	108-94-1	Experimental Bioconcentrati on		Log Kow	0.86	OECD 107 log Kow shke flsk mtd
3-Dodecyl-1- (2,2,6,6- tetramethyl-4- piperidinyl)- 2,5- pyrrolidinedion e	79720-19-7	Experimental Bioconcentrati on		Log Kow	≥5.7	EC A.8 Partition Coefficient
n-Butyl methacrylate	97-88-1	Experimental Bioconcentrati on		Log Kow	2.88	
Ethylbenzene	100-41-4	Experimental BCF - Fish	56 days	Bioaccumulatio n factor	25.9	
Toluene	108-88-3	Experimental BCF - Other	72 hours	Bioaccumulatio n factor	90	
Toluene	108-88-3	Experimental Bioconcentrati on		Log Kow	2.73	

### 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

In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

# **SECTION 14: Transport Information**

New Zealand Land Transport Rule: Dangerous Goods - 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**

HSNO Approval number HSR002669

Group standard name

Surface Coatings and Colourants (Flammable, Carcinogenic) Group Standard 2020

HSNO Hazard classification Refer to Section 2: Hazard identification

### NZ Inventory of Chemicals (NZIoC) Status

All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

# Controls in accordance with The Health and Safety at Work Act 2015, Health and Safety at Work (Hazardous Substances) Regulations 2017 and the HSNO Act 1996, Hazardous Substances (Hazardous Property Controls) Notice 2017

Certified handler Not required

Location Compliance Certificate 500 L (closed containers greater than 5 L) 1,500 L (closed containers up to and

including 5 L) 250 L (open containers)

Hazardous atmosphere zone 100 L (closed containers) 25 L (decanting) 5 L (open occasionally) 1 L

(open containers in continuous use)

Fire extinguishers Two required for 500 L

Emergency response plan 100 L (for Hazardous to the aquatic environment Category 1 substances); or 1

000 L (for Acute toxicity Category 4, Skin sensitisation Category 1,

Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances);

or 10 000 L (for all other substances)

Secondary containment 100 L (for Hazardous to the aquatic environment Category 1 substances); or 1

000 L (for Acute toxicity Category 4, Skin sensitisation Category 1,

Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances);

or 10 000 L (for all other substances)

Tracking Not required

Warning signage 100 L (for Hazardous to the aquatic environment Category 1 substances); or 1

000 L (for all other substances)

## **SECTION 16: Other information**

### **Revision information:**

Complete document review.

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### Key to abbreviations and acronyms

**GHS** refers to the Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition of 2017 **HSNO** means Hazardous Substances and New Organisms Act 1996

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