

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 882I, Red

Product Identification Numbers

75-0301-1086-2

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.

Serious Eye Damage/Irritation: Category 1.

Skin Sensitizer: Category 1A. Carcinogenicity: Category 1A.

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

H226 Flammable liquid and vapour.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

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.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280B Wear protective gloves and eye/face 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 CENTRE or doctor/physician.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

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

chemical or carbon dioxide to extinguish.

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.

2.3. Other assigned/identified product hazards

None known.

2.4. Other hazards which do not result in classification

Causes mild skin irritation.

Toxic to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Weight
Propanol, 1(or 2)-(2-	88917-22-0	40 - 70
methoxymethylethoxy)-, acetate		
Acrylic polymers	Trade Secret	15 - 40
2-Propenoic acid, 2-methyl-, polymer with	28262-63-7	10 - 30
butyl 2-methyl-2-propenoate and methyl 2-		
methyl-2-propenoate		
1-Methoxy-2-propyl acetate	108-65-6	3 - 7
Cyclohexanone	108-94-1	3 - 7
Organic pigment	Trade Secret	1 - 5
Vinyl acetate-vinyl alcohol-vinyl chloride	Trade Secret	1 - 5
polymer		
Cyasorb UV 3604	79720-19-7	< 0.6
Ethylbenzene	100-41-4	< 0.3
Toluene	108-88-3	< 0.3
2,3-Epoxypropyl neodecanoate	26761-45-5	< 0.2
Naphthenic acid	1338-24-5	< 0.2
Nickel salts of naphthenic acids	61788-71-4	< 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).

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

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

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. 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 carcinogen.
Ethylbenzene	100-41-4	Australia OELs	TWA(8 hours):434 mg/m3(100 ppm);STEL(15 minutes):543 mg/m3(125 ppm)	edremogen.
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 ppm);STEL(15 minutes):548 mg/m3(100 ppm)	SKIN
Toluene	108-88-3	ACGIH	TWA:20 ppm	A4: Not class. as human carcinogen, Ototoxicant
Toluene	108-88-3	Australia OELs	TWA(8 hours):191 mg/m3(50 ppm);STEL(15 minutes):574 mg/m3(150 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	Australia OELs	TWA(8 hours):100 mg/m3(25 ppm)	SKIN
Nickel, soluble compounds, as Ni.	61788-71-4	Australia OELs	TWA(as Ni)(8 hours): 0.1 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

Physical state	Liquid.
Specific Physical Form:	Liquid.
Colour	Red
Odour	Sweet Ether
Odour threshold	No data available.
рН	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 [<i>Ref Std</i> :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 [<i>Details</i> :DTM - 300 (#3 @ 30 rpm)]
Volatile organic compounds (VOC)	600 - 800 g/l [Details: As packaged.]
Percent volatile	65 - 75 %
VOC less H2O & exempt solvents	No data available.
Molecular weight	No data available.

Nanoparticles

This material does not contain nanoparticles.

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 acids.

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

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

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. May cause additional health effects (see below).

Eve 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-Vapour(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-	Dermal	Rat	LD50 > 2,000 mg/kg
methoxymethylethoxy)-, acetate			
Propanol, 1(or 2)-(2-	Inhalation-Dust/Mist	Rat	LC50 > 5.7 mg/l
methoxymethylethoxy)-, acetate	(4 hours)		
Propanol, 1(or 2)-(2-	Ingestion	Rat	LD50 > 5,000 mg/kg
methoxymethylethoxy)-, acetate			
2-Propenoic acid, 2-methyl-, polymer	Dermal		LD50 estimated to be > 5,000 mg/kg
with butyl 2-methyl-2-propenoate			
and methyl 2-methyl-2-propenoate			
2-Propenoic acid, 2-methyl-, polymer	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
with butyl 2-methyl-2-propenoate			
and methyl 2-methyl-2-propenoate			
1-Methoxy-2-propyl acetate	Dermal	Rabbit	LD50 > 5,000 mg/kg
1-Methoxy-2-propyl acetate	Inhalation-Vapour (4	Rat	LC50 > 28.8 mg/l
	hours)		
1-Methoxy-2-propyl acetate	Ingestion	Rat	LD50 8,532 mg/kg
Cyclohexanone	Dermal	Rabbit	LD50 >794, <3160 mg/kg
Cyclohexanone	Inhalation-Vapour (4	Rat	LC50 > 6.2 mg/l

	hours)		
Cyclohexanone	Ingestion	Rat	LD50 1,296 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
Organic pigment	Dermal		LD50 estimated to be > 5,000 mg/kg
Organic pigment	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Cyasorb UV 3604	Dermal	Rabbit	LD50 > 2,000 mg/kg
Cyasorb UV 3604	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5 mg/l
Cyasorb UV 3604	Ingestion	Rat	LD50 > 2,000 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
Naphthenic acid	Dermal	Rabbit	LD50 > 20,000 mg/kg
Naphthenic acid	Ingestion	Rat	LD50 5,880 mg/kg
Toluene	Dermal	Rat	LD50 12,000 mg/kg
Toluene	Inhalation-Vapour (4 hours)	Rat	LC50 30 mg/l
Toluene	Ingestion	Rat	LD50 5,550 mg/kg
2,3-Epoxypropyl neodecanoate	Dermal	Rat	LD50 > 2,000 mg/kg
2,3-Epoxypropyl neodecanoate	Ingestion	Rat	LD50 > 2,000 mg/kg

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
Vinyl acetate-vinyl alcohol-vinyl chloride polymer	Professional judgement	No significant irritation
Cyasorb UV 3604	Rabbit	Corrosive
Ethylbenzene	Rabbit	Mild irritant
Nickel salts of naphthenic acids	Professional judgement	Minimal irritation
Naphthenic acid	Rabbit	Mild irritant
Toluene	Rabbit	Irritant
2,3-Epoxypropyl neodecanoate	Rabbit	No significant irritation

Serious Eve 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 data	Corrosive
Vinyl acetate-vinyl alcohol-vinyl chloride polymer	Professional judgement	No significant irritation
Cyasorb UV 3604	Rabbit	Corrosive
Ethylbenzene	Rabbit	Moderate irritant
Nickel salts of naphthenic acids	Professional judgement	Mild irritant
Naphthenic acid	Rabbit	Moderate irritant
Toluene	Rabbit	Moderate irritant
2,3-Epoxypropyl neodecanoate	Rabbit	No significant irritation

Skin Sensitisation

Name	Species	Value
Propanol, 1(or 2)-(2-methoxymethylethoxy)-,	Guinea pig	Not classified
acetate		
1-Methoxy-2-propyl acetate	Guinea pig	Not classified
Cyclohexanone	Guinea pig	Not classified
Ethylbenzene	Human	Not classified
Nickel salts of naphthenic acids	similar compounds	Sensitising
Naphthenic acid	Guinea pig	Sensitising
Toluene	Guinea pig	Not classified
2,3-Epoxypropyl neodecanoate	Guinea pig	Sensitising

Respiratory Sensitisation

Name	Species	Value
Nickel salts of naphthenic acids	Professional judgement	Sensitising

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
Cyasorb UV 3604	In Vitro	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
Naphthenic acid	In vivo	Not mutagenic
Naphthenic acid	In Vitro	Some positive data exist, but the data are not sufficient for classification
Toluene	In Vitro	Not mutagenic
Toluene	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

Carcinogenicity

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

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Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
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
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	
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		•	,	available	
Naphthenic acid	Ingestion	Not classified for	Rat	NOAEL 900	premating into
1		female reproduction		mg/kg/day	lactation
Naphthenic acid	Ingestion	Not classified for	Rat	NOAEL 900	28 days
•		male reproduction		mg/kg/day	
Naphthenic acid	Ingestion	Toxic to development	Rat	NOAEL 100	premating into
		•		mg/kg/day	lactation
Toluene	Inhalation	Not classified for	Human	NOAEL Not	occupational
		female reproduction		available	exposure
Toluene	Inhalation	Not classified for	Rat	NOAEL 2.3	1 generation
		male reproduction		mg/l	<i>S</i>
Toluene	Ingestion	Toxic to development	Rat	LOAEL 520	during gestation
	3-2-1	P		mg/kg/day	<i>5 5-2</i>
Toluene	Inhalation	Toxic to development	Human	NOAEL Not	poisoning and/or
		P		available	abuse

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target	Value	Species	Test result	Exposure
		Organ(s)				Duration
1-Methoxy-2- propyl acetate	Inhalation	respiratory irritation	Some positive data exist, but the		NOAEL Not available	
propyracetate		IIIIution	data are not		avanaore	
			sufficient for			
			classification			
Cyclohexanon	Inhalation	central nervous	May cause	Guinea pig	LOAEL 16.1	6 hours
e		system	drowsiness or		mg/l	
		depression	dizziness		-	
Cyclohexanon	Inhalation	respiratory	Some positive	Human	NOAEL Not	
e		irritation	data exist, but the		available	

			data are not sufficient for classification			
Cyclohexanon e	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
Cyasorb UV 3604	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	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	
Naphthenic acid	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	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- methoxymeth ylethoxy)-, 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
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
Ethylbenzene	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not	Rat	NOAEL 1.1 mg/l	2 years

			sufficient for			
Ethylbenzene	Inhalation	liver	classification 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
Naphthenic acid	Ingestion	endocrine system liver heart skin gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system immune system muscles nervous system eyes kidney and/or bladder respiratory system vascular system	Not classified	Rat	NOAEL 881 mg/kg/day	90 days
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	Not classified	Rat	NOAEL 11.3 mg/l	15 weeks

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		bladder				
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
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
Ethylbenzene	Aspiration hazard
Toluene	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
Propanol, 1(or	88917-22-0	Activated	Experimental	3 hours	EC50	>1,000 mg/l
2)-(2-		sludge	1			
methoxymethyl						
ethoxy)-,						
acetate						
Propanol, 1(or	88917-22-0	Green algae	Experimental	72 hours	EC50	>1,000 mg/l
2)-(2-						1,000 111.81
methoxymethyl						
ethoxy)-,						
acetate						
Propanol, 1(or	88917-22-0	Rainbow trout	Experimental	96 hours	LC50	111 mg/l
2)-(2-	00917 22 0	Tumoow trout	Емрегинения) o nours		l I I IIIg, I
methoxymethyl						
ethoxy)-,						
acetate						
Propanol, 1(or	88917-22-0	Water flea	Experimental	48 hours	LC50	1,090 mg/l
2)-(2-	0071, 22 0	,, 4101 1104	Zaperinientar	10 110 013		1,070 1116/1
methoxymethyl						
ethoxy)-,						
acetate						
Propanol, 1(or	88917-22-0	Green algae	Experimental	72 hours	NOEC	1,000 mg/l
2)-(2-	00717-22-0	Green argae	Experimental	/2 Hours	NOLC	1,000 mg/1
methoxymethyl						
ethoxy)-,						
acetate						
2-Propenoic	28262-63-7		Data not			N/A
acid, 2-methyl-,	20202-03-7		available or			IV/A
polymer with			insufficient for			
butyl 2-methyl-			classification			
2-propenoate			Classification			
and methyl 2-						
methyl-2-						
propenoate						
1-Methoxy-2-	108-65-6	Activated	Experimental	30 minutes	EC10	>1,000 mg/l
propyl acetate	100-03-0	sludge	Experimental	50 minutes	LC10	7,000 mg/1
1-Methoxy-2-	108-65-6	Green algae	Experimental	72 hours	EC50	>1,000 mg/l
propyl acetate	100-03-0	Green argae	Experimental	72 Hours	ECSU	71,000 mg/1
1-Methoxy-2-	108-65-6	Rainbow trout	Experimental	96 hours	LC50	134 mg/l
propyl acetate	108-03-0	Kainoow trout	Experimental	90 Hours	LC30	134 mg/1
1-Methoxy-2-	108-65-6	Water flea	Exmanimantal	48 hours	EC50	270 m a/l
propyl acetate	100-03-0	vv ater riea	Experimental	40 HOUIS	EC30	370 mg/l
	100 65 6	Croon class	Evmoning and al	72 hours	NOEC	1 000 mg/l
1-Methoxy-2-	108-65-6	Green algae	Experimental	72 hours	NOEC	1,000 mg/l
propyl acetate	100 65 6	Water Co.	E	21 days	NOEC	100 /1
1-Methoxy-2-	108-65-6	Water flea	Experimental	21 days	NOEC	100 mg/l
propyl acetate	100.04.1	A .:	F	20 :	EGG	. 1 000 /1
Cyclohexanone	108-94-1	Activated	Experimental	30 minutes	EC50	>1,000 mg/l
<u> </u>	100.04	sludge			12250	
Cyclohexanone		Algae	Experimental	72 hours	EC50	32.9 mg/l
Cyclohexanone	108-94-1	Fathead	Experimental	96 hours	LC50	527 mg/l

		minnow				
Cyclohexanone	108-94-1	Water flea	Experimental	24 hours	EC50	800 mg/l
Cyclohexanone		Algae	Experimental	72 hours	EC10	3.56 mg/l
Organic	Trade Secret	Activated	Experimental	30 minutes	EC50	>1,000 mg/l
pigment		sludge	F			, , , , , , , , , , , , , , , , , , , ,
Organic	Trade Secret	Golden Orfe	Experimental	96 hours	LC50	>10,000 mg/l
pigment			1			
Organic	Trade Secret	Green Algae	Experimental	72 hours	EC50	>100 mg/l
pigment						
Organic	Trade Secret	Water flea	Experimental	48 hours	EC50	>100 mg/l
pigment						
Organic	Trade Secret	Green Algae	Experimental	72 hours	EC50	100 mg/l
pigment						
Vinyl acetate-	Trade Secret		Data not			N/A
vinyl alcohol-			available or			
vinyl chloride			insufficient for			
polymer	70720 10 7		classification	061	1.050	0.007 /1
Cyasorb UV 3604	79720-19-7	Common Carp	Experimental	96 hours	LC50	0.097 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	Experimental	49 hours	EC50	130 mg/l
Euryroenzene	100-41-4	sludge	Experimental	49 1100115	EC30	130 Hig/1
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	1			
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)
2,3-	26761-45-5	Activated	Experimental	3 hours	NOEC	500 mg/l
Epoxypropyl		sludge				
neodecanoate		1	<u> </u>			
2,3-	26761-45-5	Green Algae	Experimental	72 hours	EC50	2.9 mg/l
Epoxypropyl						
neodecanoate	0.07.61 45 5	D : 1	D • • •	061	1.050	5 (1
2,3-	26761-45-5	Rainbow trout	Experimental	96 hours	LC50	5 mg/l
Epoxypropyl						
neodecanoate	26761 45 5	Water C -	Dam anima anta 1	40 h ass :	ECSO	1 0
2,3-	26761-45-5	Water flea	Experimental	48 hours	EC50	4.8 mg/l

Epoxypropyl neodecanoate						
2,3- Epoxypropyl neodecanoate	26761-45-5	Green algae	Experimental	96 hours	NOEC	1 mg/l
Naphthenic acid	1338-24-5		Data not available or insufficient for classification			N/A
Nickel salts of naphthenic acids	61788-71-4	Common Carp	Estimated	96 hours	LC50	6.9 mg/l
Nickel salts of naphthenic acids	61788-71-4	Green Algae	Estimated	96 hours	EC50	0.034 mg/l
Nickel salts of naphthenic acids	61788-71-4	Water flea	Estimated	48 hours	EC50	0.069 mg/l

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Propanol, 1(or	88917-22-0	Estimated	28 days	Dissolv.	90 %removal	OECD 301F -
2)-(2-		Biodegradation		Organic	of DOC	Manometric
methoxymethyl				Carbon Deplet		respirometry
ethoxy)-,						
acetate						
2-Propenoic	28262-63-7	Data not			N/A	
acid, 2-methyl-,		available-				
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 %	OECD 301C - MITI
propyl acetate		Biodegradation			BOD/ThBOD	test (I)
Cyclohexanone	108-94-1	Experimental	14 days	BOD	87 %	OECD 301C - MITI
		Biodegradation			BOD/ThBOD	test (I)
Organic	Trade Secret	Experimental	28 days	BOD	0-10 %	OECD 301F -
pigment		Biodegradation			BOD/ThBOD	Manometric
						respirometry
Vinyl acetate-	Trade Secret	Data not			N/A	
vinyl alcohol-		available-				
vinyl chloride		insufficient				
polymer						
Cyasorb UV	79720-19-7	Experimental	28 days	CO2 evolution	0 % weight	OECD 301B - Modified
3604		Biodegradation				sturm or CO2
Ethylbenzene	100-41-4	Experimental	28 days	BOD	90-98 %	OECD 301F -
		Biodegradation			BOD/ThBOD	Manometric
						respirometry
Toluene	108-88-3	Experimental		Photolytic half-	5.2 days (t 1/2)	
		Photolysis		life (in air)		
Toluene	108-88-3	Experimental	20 days	BOD	80 %	APHA Std Meth
		Biodegradation			BOD/ThBOD	Water/Wastewater

2,3-	26761-45-5	Experimental		Half-life (t 1/2)	9.9 days (t 1/2)	Non-standard method
Epoxypropyl		Hydrolysis				
neodecanoate						
2,3-	26761-45-5	Experimental	28 days	BOD	11.6 % weight	OECD 301F -
Epoxypropyl		Biodegradation				Manometric
neodecanoate						respirometry
Naphthenic	1338-24-5	Data not			N/A	
acid		available-				
		insufficient				
Nickel salts of	61788-71-4	Data not			N/A	
naphthenic		available-				
acids		insufficient				

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Propanol, 1(or 2)-(2-methoxymethyl ethoxy)-,	88917-22-0	Experimental Bioconcentrati on		Log Kow	0.61	Non-standard method
acetate 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl- 2-propenoate and methyl 2- methyl-2- propenoate	28262-63-7	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	Non-standard method
Cyclohexanone	108-94-1	Experimental Bioconcentrati on		Log Kow	0.86	Non-standard method
Organic pigment	Trade Secret	Estimated Bioconcentrati on		Bioaccumulatio n factor	6.8	Estimated: Bioconcentration factor
Vinyl acetate- vinyl alcohol- vinyl chloride polymer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Cyasorb UV 3604	79720-19-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Ethylbenzene	100-41-4	Experimental BCF - Rainbow Trout	56 days	Bioaccumulatio n factor	25.9	Non-standard method
Toluene	108-88-3	Experimental BCF - Other	72 hours	Bioaccumulatio n factor	90	
Toluene	108-88-3	Experimental Bioconcentrati on		Log Kow	2.73	
2,3-	26761-45-5	Estimated		Bioaccumulatio	28	Estimated:

Epoxypropyl		Bioconcentrati		n factor		Bioconcentration factor
neodecanoate		on				
Naphthenic	1338-24-5	Experimental	10 days	Bioaccumulatio	4	Non-standard method
acid		BCF - Rainbow	-	n factor		
		Trout				
Nickel salts of	61788-71-4	Data not	N/A	N/A	N/A	N/A
naphthenic		available or				
acids		insufficient for				
		classification				

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:

All components of this product are listed on or exempt from the Australian Inventory of Industrial Chemicals (AIIC). Conditions may apply prior to introduction for direct importers of this product. Please contact 3M Australia on 136 136 for further details.

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:

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