



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 Process Colour 883I, Blue

Product Identification Numbers

75-0301-1087-0

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 Liquid: Category 3
Serious Eye Damage/Irritation: Category 1
Skin Sensitiser: Category 1
Carcinogenicity: Category 2
Reproductive Toxicity: Category 1B

2.2. Label elements

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. |
| H351 | Suspected of causing cancer. |
| H360 | May damage fertility or the unborn child. |

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. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| 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 CENTER 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. |
|------|--|

SECTION 3: Composition/information on ingredients

| Ingredient | CAS Nbr | % by Weight |
|---|--------------|-------------|
| Dipropylene glycol methyl ether acetate | 88917-22-0 | 40 - 70 |
| Acrylic polymers | Trade Secret | 10 - 30 |
| 1-Methoxy-2-propyl acetate | 108-65-6 | < 10 |
| Cyclohexanone | 108-94-1 | < 10 |
| 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper | 147-14-8 | 1 - 5 |
| Vinyl acetate-vinyl alcohol-vinyl chloride polymer | Trade Secret | 1 - 5 |
| Toluene | 108-88-3 | < 0.3 |
| 2,3-Epoxypropyl neodecanoate | 26761-45-5 | < 0.2 |
| Ethylbenzene | 100-41-4 | < 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.

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**Substance**

Hydrocarbons.
Carbon monoxide.
Carbon dioxide.
Hydrogen Chloride
Hydrogen Fluoride

Condition

During combustion.
During combustion.
During combustion.
During combustion.
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 authorized 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. 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 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. Store away from acids. 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.

| Ingredient | CAS Nbr | Agency | Limit type | Additional comments |
|----------------------------|----------|-----------------|---|---|
| Ethylbenzene | 100-41-4 | ACGIH | TWA:20 ppm | A3: Confirmed animal carcinogen. |
| Ethylbenzene | 100-41-4 | New Zealand WES | TWA(8 hours):434 mg/m ³ (100 ppm);STEL(15 minutes):543 mg/m ³ (125 ppm) | |
| 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): 188 mg/m ³ (50 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/m ³ (25 ppm) | Skin |
| Copper compounds | 147-14-8 | ACGIH | TWA(as Cu, fume):0.2 mg/m ³ ;TWA(as Cu dust or mist):1 mg/m ³ | |

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 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.

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

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

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 and particulates

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

| | |
|--|---|
| Physical state | Liquid. |
| Specific Physical Form: | Liquid. |
| Colour | Blue |
| Odour | Sweet Ether |
| Odour threshold | <i>No data available.</i> |
| pH | <i>Not applicable.</i> |
| Melting point/Freezing point | <i>Not applicable.</i> |
| Boiling point/Initial boiling point/Boiling range | >=140 °C |
| Flash point | 42.2 °C [<i>Test Method: Tagliabue closed cup</i>] |
| Evaporation rate | <=0.4 [<i>Ref Std: BUOAC=1</i>] |
| Flammability (solid, gas) | Not applicable. |
| Flammable Limits(LEL) | 1.1 % volume |
| Flammable Limits(UEL) | 8.6 % volume |
| Vapour pressure | <=493.3 Pa [<i>@ 20 °C</i>] |
| Vapor Density and/or Relative Vapor Density | <i>No data available.</i> |
| Density | 0.95 g/ml |
| Relative density | 0.95 [<i>Ref Std: WATER=1</i>] |
| Water solubility | <i>No data available.</i> |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Autoignition temperature | <i>No data available.</i> |
| Decomposition temperature | <i>No data available.</i> |
| Viscosity/Kinematic Viscosity | 1,000 - 1,200 mPa-s [<i>Details: DTM-300 (#3 @ 30 rpm)</i>] |
| Volatile organic compounds (VOC) | 600 - 800 g/l [<i>Details: As packaged</i>] |
| Percent volatile | 65 - 75 % |
| VOC less H2O & exempt solvents | <i>No data available.</i> |
| Molecular weight | <i>No data available.</i> |

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

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known. | |

Refer to Section 5.2 for hazardous decomposition products during combustion.

Extreme heat arising from situations such as misuse or equipment failure can generate hydrogen fluoride as a decomposition product.

SECTION 11: Toxicological information

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

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation

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

Skin contact

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.

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 >20 - =50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Dipropylene glycol methyl ether acetate | Dermal | Rat | LD50 > 2,000 mg/kg |
| Dipropylene glycol methyl ether acetate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.7 mg/l |
| Dipropylene glycol methyl ether acetate | Ingestion | Rat | LD50 > 5,000 mg/kg |
| 1-Methoxy-2-propyl acetate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| 1-Methoxy-2-propyl acetate | Inhalation-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 |
| 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 |
| 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper | Ingestion | Rat | LD50 10,000 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 |
| 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 |
| 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 |
|---|---------|---------------------------|
| Dipropylene glycol methyl ether 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 |
| 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper | Rabbit | No significant irritation |
| Toluene | Rabbit | Irritant |
| Ethylbenzene | Rabbit | Mild irritant |
| 2,3-Epoxypropyl neodecanoate | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|------------------------|---------------------------|
| Dipropylene glycol methyl ether 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 |
| 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper | Rabbit | No significant irritation |
| Toluene | Rabbit | Moderate irritant |
| Ethylbenzene | Rabbit | Moderate irritant |
| 2,3-Epoxypropyl neodecanoate | Rabbit | No significant irritation |

Sensitisation:**Skin Sensitisation**

| Name | Species | Value |
|---|------------|----------------|
| Dipropylene glycol methyl ether acetate | Guinea pig | Not classified |
| 1-Methoxy-2-propyl acetate | Guinea pig | Not classified |
| Cyclohexanone | Guinea pig | Not classified |
| 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper | Human | Not classified |
| Toluene | Guinea pig | Not classified |
| Ethylbenzene | Human | Not classified |
| 2,3-Epoxypropyl neodecanoate | Guinea pig | Sensitising |

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 |
|---|----------|--|
| Dipropylene glycol methyl ether acetate | In Vitro | Not mutagenic |
| Dipropylene glycol methyl ether acetate | In vivo | Not mutagenic |
| 1-Methoxy-2-propyl acetate | In Vitro | Not mutagenic |
| Cyclohexanone | In vivo | Not mutagenic |
| Cyclohexanone | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper | In Vitro | Not mutagenic |
| Toluene | In Vitro | Not mutagenic |
| Toluene | In vivo | Not mutagenic |
| Ethylbenzene | In vivo | Not mutagenic |
| Ethylbenzene | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 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 |
| 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper | Ingestion | Mouse | Not 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 |
| Ethylbenzene | Inhalation | Multiple animal species | Carcinogenic. |

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 |
| 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | premating into lactation |
| 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 42 days |
| 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | premating into lactation |
| 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 |
| Ethylbenzene | Inhalation | Not classified for development | Rat | NOAEL 4.3 mg/l | premating & during gestation |

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 | |
| 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 classification | Human | NOAEL Not available | |
| Cyclohexanone | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | 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 |
| 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 | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|------------|---|---|-------------------------|-----------------------|------------------------|
| Dipropylene glycol methyl ether acetate | Ingestion | liver heart endocrine system hematopoietic system kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 4 weeks |
| 1-Methoxy-2-propyl acetate | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 16.2 mg/l | 9 days |
| 1-Methoxy-2-propyl acetate | Inhalation | olfactory system | Not classified | Mouse | LOAEL 1.62 mg/l | 9 days |
| 1-Methoxy-2-propyl acetate | Inhalation | blood | Not classified | Multiple animal species | NOAEL 16.2 mg/l | 9 days |
| 1-Methoxy-2-propyl acetate | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 44 days |
| 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 |
| 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper | Ingestion | endocrine system hematopoietic system respiratory system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper | Ingestion | kidney and/or bladder | Not classified | Multiple animal species | NOAEL Not available | not available |
| 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 through prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse |

3M Process Colour 883I, Blue

| | | | | | | |
|------------------------------|------------|--|--|-------------------------|-----------------------|-----------------------|
| 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 |
| Ethylbenzene | Inhalation | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1.1 mg/l | 2 years |
| Ethylbenzene | Inhalation | liver | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL 1.1 mg/l | 103 weeks |
| Ethylbenzene | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 3.4 mg/l | 28 days |
| Ethylbenzene | Inhalation | auditory system | Not classified | Rat | NOAEL 2.4 mg/l | 5 days |
| Ethylbenzene | Inhalation | endocrine system | Not classified | Mouse | NOAEL 3.3 mg/l | 103 weeks |
| Ethylbenzene | Inhalation | gastrointestinal tract | Not classified | Rat | NOAEL 3.3 mg/l | 2 years |
| Ethylbenzene | Inhalation | bone, teeth, nails, and/or hair muscles | Not classified | Multiple animal species | NOAEL 4.2 mg/l | 90 days |
| Ethylbenzene | Inhalation | heart immune system respiratory system | Not classified | Multiple animal species | NOAEL 3.3 mg/l | 2 years |
| Ethylbenzene | Ingestion | liver kidney and/or bladder | Not classified | Rat | NOAEL 680 mg/kg/day | 6 months |
| 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 |
|--------------|-------------------|
| Toluene | Aspiration hazard |
| Ethylbenzene | 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

No product test data available.

| Material | CAS Number | Organism | Type | Exposure | Test endpoint | Test result |
|--|------------|-------------------------------|--------------|------------|---------------|-------------|
| Dipropylene glycol methyl ether acetate | 88917-22-0 | Activated sludge | Experimental | 3 hours | EC50 | >1,000 mg/l |
| Dipropylene glycol methyl ether acetate | 88917-22-0 | Green algae | Experimental | 72 hours | EC50 | >1,000 mg/l |
| Dipropylene glycol methyl ether acetate | 88917-22-0 | Rainbow trout | Experimental | 96 hours | LC50 | 111 mg/l |
| Dipropylene glycol methyl ether acetate | 88917-22-0 | Water flea | Experimental | 48 hours | LC50 | 1,090 mg/l |
| Dipropylene glycol methyl ether acetate | 88917-22-0 | Green algae | Experimental | 72 hours | NOEC | 1,000 mg/l |
| 1-Methoxy-2-propyl acetate | 108-65-6 | Activated sludge | Experimental | 30 minutes | EC10 | >1,000 mg/l |
| 1-Methoxy-2-propyl acetate | 108-65-6 | Green algae | Experimental | 72 hours | EC50 | >1,000 mg/l |
| 1-Methoxy-2-propyl acetate | 108-65-6 | Rainbow trout | Experimental | 96 hours | LC50 | 134 mg/l |
| 1-Methoxy-2-propyl acetate | 108-65-6 | Water flea | Experimental | 48 hours | EC50 | 370 mg/l |
| 1-Methoxy-2-propyl acetate | 108-65-6 | Green algae | Experimental | 72 hours | NOEC | 1,000 mg/l |
| 1-Methoxy-2-propyl acetate | 108-65-6 | Water flea | Experimental | 21 days | NOEC | 100 mg/l |
| 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 | EC50 | 32.9 mg/l |
| Cyclohexanone | 108-94-1 | Fathead minnow | Experimental | 96 hours | LC50 | 527 mg/l |
| Cyclohexanone | 108-94-1 | Water flea | Experimental | 24 hours | EC50 | 800 mg/l |
| Cyclohexanone | 108-94-1 | Algae or other aquatic plants | Experimental | 72 hours | EC10 | 3.56 mg/l |
| 29H,31H-phthalocyanina to(2-)-N29,N30,N31, | 147-14-8 | Green algae | Estimated | 72 hours | ErC50 | >100 mg/l |

| | | | | | | |
|---|--------------|------------------|---|------------|-------|------------------------------|
| N32 copper | | | | | | |
| 29H,31H-phthalocyanina to(2-)-N29,N30,N31, N32 copper | 147-14-8 | Water flea | Estimated | 48 hours | EC50 | >500 mg/l |
| 29H,31H-phthalocyanina to(2-)-N29,N30,N31, N32 copper | 147-14-8 | Activated sludge | Experimental | 30 minutes | EC20 | 750 mg/l |
| 29H,31H-phthalocyanina to(2-)-N29,N30,N31, N32 copper | 147-14-8 | Bacteria | Experimental | 30 minutes | EC10 | >10,000 mg/l |
| 29H,31H-phthalocyanina to(2-)-N29,N30,N31, N32 copper | 147-14-8 | Rainbow trout | Experimental | 96 hours | LC50 | 355.6 mg/l |
| 29H,31H-phthalocyanina to(2-)-N29,N30,N31, N32 copper | 147-14-8 | Green algae | Estimated | 72 hours | ErC10 | 100 mg/l |
| 29H,31H-phthalocyanina to(2-)-N29,N30,N31, N32 copper | 147-14-8 | Water flea | Estimated | 21 days | NOEC | >=1 mg/l |
| Vinyl acetate-vinyl alcohol-vinyl chloride polymer | Trade Secret | | Data not available or insufficient for classification | | | N/A |
| 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 sludge | Experimental | 12 hours | IC50 | 292 mg/l |
| 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-Epoxypropyl | 26761-45-5 | Activated sludge | Experimental | 3 hours | NOEC | 500 mg/l |

| | | | | | | |
|------------------------------|------------|------------------|--------------|----------|------|-----------|
| neodecanoate | | | | | | |
| 2,3-Epoxypropyl neodecanoate | 26761-45-5 | Green algae | Experimental | 72 hours | EC50 | 2.9 mg/l |
| 2,3-Epoxypropyl neodecanoate | 26761-45-5 | Rainbow trout | Experimental | 96 hours | LC50 | 5 mg/l |
| 2,3-Epoxypropyl neodecanoate | 26761-45-5 | Water flea | Experimental | 48 hours | EC50 | 4.8 mg/l |
| 2,3-Epoxypropyl neodecanoate | 26761-45-5 | Green algae | Experimental | 96 hours | NOEC | 1 mg/l |
| Ethylbenzene | 100-41-4 | Green algae | Estimated | 73 hours | EC50 | 4.36 mg/l |
| Ethylbenzene | 100-41-4 | Rainbow trout | Estimated | 96 hours | LC50 | 2.6 mg/l |
| Ethylbenzene | 100-41-4 | Water flea | Estimated | 48 hours | EC50 | 3.82 mg/l |
| Ethylbenzene | 100-41-4 | Activated sludge | Experimental | 49 hours | EC50 | 130 mg/l |
| Ethylbenzene | 100-41-4 | Green algae | Estimated | 73 hours | NOEC | 0.44 mg/l |
| Ethylbenzene | 100-41-4 | Rainbow trout | Estimated | 56 days | NOEC | >1.3 mg/l |
| Ethylbenzene | 100-41-4 | Water flea | Estimated | 7 days | NOEC | 0.96 mg/l |

12.2. Persistence and degradability

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|--|--------------|-------------------------------|----------|--------------------------------|---------------------|-------------------------------------|
| Dipropylene glycol methyl ether acetate | 88917-22-0 | Estimated Biodegradation | 28 days | Dissolv. Organic Carbon Deplet | 90 % removal of DOC | OECD 301F - Manometric respirometry |
| 1-Methoxy-2-propyl acetate | 108-65-6 | Experimental Biodegradation | 28 days | BOD | 87.2 %BOD/ThBOD | OECD 301C - MITI test (I) |
| Cyclohexanone | 108-94-1 | Experimental Biodegradation | 14 days | BOD | 87 %BOD/ThBOD | OECD 301C - MITI test (I) |
| 29H,31H-phthalocyanina to(2-)-N29,N30,N31,N32 copper | 147-14-8 | Experimental Biodegradation | 28 days | BOD | <1 %BOD/ThBOD | OECD 301F - Manometric respirometry |
| Vinyl acetate-vinyl alcohol-vinyl chloride polymer | Trade Secret | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Toluene | 108-88-3 | Experimental Photolysis | | Photolytic half-life (in air) | 5.2 days (t 1/2) | |
| Toluene | 108-88-3 | Experimental Biodegradation | 20 days | BOD | 80 %BOD/ThBOD | APHA Std Meth Water/Wastewater |
| 2,3-Epoxypropyl neodecanoate | 26761-45-5 | Experimental Hydrolysis | | Half-life (t 1/2) | 9.9 days (t 1/2) | Non-standard method |
| 2,3-Epoxypropyl neodecanoate | 26761-45-5 | Experimental Biodegradation | 28 days | BOD | 11.6 % weight | OECD 301F - Manometric respirometry |
| Ethylbenzene | 100-41-4 | Experimental Biodegradation | 28 days | BOD | 90-98 %BOD/ThBOD | OECD 301F - Manometric respirometry |

12.3 : Bioaccumulative potential

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|---|--------------|---|----------|------------------------|-------------|------------------------------------|
| Dipropylene glycol methyl ether acetate | 88917-22-0 | Experimental Bioconcentration | | Log Kow | 0.61 | Non-standard method |
| 1-Methoxy-2-propyl acetate | 108-65-6 | Experimental Bioconcentration | | Log Kow | 0.36 | Non-standard method |
| Cyclohexanone | 108-94-1 | Experimental Bioconcentration | | Log Kow | 0.86 | Non-standard method |
| 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper | 147-14-8 | Experimental BCF - Fish | 42 days | Bioaccumulation factor | <3.6 | OECD305-Bioconcentration |
| Vinyl acetate-vinyl alcohol-vinyl chloride polymer | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Toluene | 108-88-3 | Experimental BCF - Other | 72 hours | Bioaccumulation factor | 90 | |
| Toluene | 108-88-3 | Experimental Bioconcentration | | Log Kow | 2.73 | |
| 2,3-Epoxypropyl neodecanoate | 26761-45-5 | Estimated Bioconcentration | | Bioaccumulation factor | 28 | Estimated: Bioconcentration factor |
| Ethylbenzene | 100-41-4 | Experimental BCF - Rainbow Trout | 56 days | Bioaccumulation factor | 25.9 | Non-standard method |

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. 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. 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); |

| | |
|-----------------|---|
| Tracking | or 10 000 L (for all other substances) |
| Warning signage | Not required |
| | 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.

| | | | |
|------------------------|------------|-------------------------|------------|
| Document group: | 18-3681-6 | Version number: | 3.00 |
| Issue Date: | 12/07/2022 | Supersedes date: | 17/04/2018 |

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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