Safety Data Sheet

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
3M(TM) Screen Printing Ink 1924 Light Green

Product Identification Numbers
75-3469-4426-9 75-3469-8536-1

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses
Ink

1.3. Details of the supplier of the safety data sheet
ADDRESS: 3M Israel, 91 Medinat Ha'Yehudim Street, Herzeliya 46120
Telephone: 09-961 5000
E Mail: innovation.il@mmm.com
Website: www.3M.com/il

1.4. Emergency telephone number
09-961 5000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture
CLP REGULATION (EC) No 1272/2008

CLASSIFICATION:
Flammable Liquid, Category 3 - Flam. Liq. 3; H226
Acute Toxicity, Category 4 - Acute Tox. 4; H312
Acute Toxicity, Category 4 - Acute Tox. 4; H332
Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
Skin Sensitization, Category 1A - Skin Sens. 1A; H317
Hazardous to the Aquatic Environment (Chronic), Category 1 - Aquatic Chronic 1; H410

For full text of H phrases, see Section 16.

2.2. Label elements

CLP REGULATION (EC) No 1272/2008

SIGNAL WORD
Warning

Symbols:
GHS02 (Flame) |GHS07 (Exclamation mark) |GHS09 (Environment) |

Pictograms

Ingredients:

Ingredient	C.A.S. No.	EC No.	% by Wt
Cyclohexanone	108-94-1	203-631-1	15 - 40
2-BUTOXYETHYL ACETATE	112-07-2	203-933-3	5 - 10
Xylene	1330-20-7	215-535-7	< 10
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-	104810-48-2		0.1 - 1
Polymeric Benzotriazole	104810-47-1		0.1 - 1
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate		915-687-0	0.1 - 0.5
Methyl Methacrylate	80-62-6	201-297-1	< 0.2
Triphenyl Phosphite	101-02-0	202-908-4	< 0.1

HAZARD STATEMENTS:

H226	Flammable liquid and vapor.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P210A	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261A	Avoid breathing vapors.
P280E	Wear protective gloves.

Response:

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Disposal:

P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

19% of the mixture consists of components of unknown acute oral toxicity.
19% of the mixture consists of components of unknown acute dermal toxicity.
19% of the mixture consists of components of unknown acute inhalation toxicity.
Contains 20% of components with unknown hazards to the aquatic environment.

Notes on labelling:
H304 is not required on the label due to the product's viscosity

2.3. Other hazards

None known

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	EC No.	% by Wt	Classification
Cyclohexanone	108-94-1	203-631-1	15 - 40	**Flam. Liq. 3**, H226; **Acute Tox. 4**, H332 **Acute Tox. 4**, H312; **Acute Tox. 4**, H302; **Skin Irrit. 2**, H315; **Eye Irrit. 2**, H319
VINYL ACETATE-VINYL ALCOHOL-VINYL CHLORIDE POLYMER	25086-48-0		10 - 30	Substance not classified as hazardous
Et 3-Ethoxypropionat	763-69-9	212-112-9	10 - 30	**Flam. Liq. 3**, H226
ACRYLIC POLYMER	Trade Secret		5 - 10	Substance not classified as hazardous
HALOGENS: BROMINE	Trade Secret		5 - 10	Substance not classified as hazardous
POLYMERIC PLASTICIZER	Trade Secret		5 - 10	Substance not classified as hazardous
2-BUTOXYETHYL ACETATE	112-07-2	203-933-3	5 - 10	**Acute Tox. 4**, H332; **Acute Tox. 4**, H312
Xylene	1330-20-7	215-535-7	< 10	**Flam. Liq. 3**, H226; **Acute Tox. 4**, H332; **Acute Tox. 4**, H312; **Skin Irrit. 2**, H315 - Nota C **Aquatic Chronic 3**, H412 **Asp. Tox. 1**, H304; **Eye Irrit. 2**, H319; **STOT SE 3**, H335; **STOT RE 2**, H373
Epoxy Soybean Oil	8013-07-8	232-391-0	1 - 5	Substance not classified as hazardous
Polymeric Benzotriazole	104810-47-1		0.1 - 1	**Skin Sens. 1**, H317; **Aquatic Chronic 2**, H411
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-	104810-48-2		0.1 - 1	**Skin Sens. 1**, H317; **Aquatic Chronic 2**, H411
Copper	7440-50-8	231-159-6	1	**Aquatic Chronic 1**, H410,M=100

HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	64742-94-5	265-198-5	0.1 - 0.5	**Asp. Tox. 1**, H304 **Flam. Liq. 3**, H226; **Skin Irrit. 2**, H315; **STOT SE 3**, H336; **Aquatic Acute 1**, H400,M=1; **Aquatic Chronic 1**, H410,M=1
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate		915-687-0	0.1 - 0.5	**Aquatic Acute 1**, H400,M=1; **Aquatic Chronic 1**, H410,M=1 **Skin Sens. 1A**, H317
Zn (2-Et-Hexanoate)2	136-53-8	205-251-1	0.05 - 0.5	**Aquatic Chronic 3**, H412 **Eye Irrit. 2**, H319; **Repr. 2**, H361df
Toluene	108-88-3	203-625-9	< 0.5	**Flam. Liq. 2**, H225; **Asp. Tox. 1**, H304; **Skin Irrit. 2**, H315; **Repr. 2**, H361d; **STOT SE 3**, H336; **STOT RE 2**, H373 **Aquatic Chronic 3**, H412 **Eye Irrit. 2**, H319
Methyl Methacrylate	80-62-6	201-297-1	< 0.2	**Flam. Liq. 2**, H225; **Skin Irrit. 2**, H315; **Skin Sens. 1**, H317; **STOT SE 3**, H335 - Nota D
Triphenyl Phosphite	101-02-0	202-908-4	< 0.1	**Skin Irrit. 2**, H315; **Eye Irrit. 2**, H319; **Aquatic Acute 1**, H400,M=1; **Aquatic Chronic 1**, H410,M=1 **Acute Tox. 4**, H302; **Skin Sens. 1A**, H317; **STOT RE 2**, H373

Any entry in the EC# column that begins with the numbers 6, 7, 8, or 9 are a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance.
Please see section 16 for the full text of any H statements referred to in this section

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

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
See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required
Not applicable.

SECTION 5: Fire-fighting measures

5.1. 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	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Hydrogen Chloride	During Combustion

5.3. Advice 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.

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 dikes 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 designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR - AFFF type foam is recommended. 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 detergent and water. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

6.4. Reference to other sections
Refer to Section 8 and Section 13 for more information

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/vapors/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 oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (gloves, respirators, etc.) 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 container tightly closed. Keep cool. Protect from sunlight. Store away from heat. Store away from acids. Store away from oxidizing agents.

7.3. Specific end use(s)
See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

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	C.A.S. No.	Agency	Limit type	Additional Comments
Toluene	108-88-3	ACGIH	TWA:20 ppm	A4: Not class. as human carcin
Cyclohexanone	108-94-1	ACGIH	TWA:20 ppm;STEL:50 ppm	A3: Confirmed animal carcin., SKIN
2-BUTOXYETHYL ACETATE	112-07-2	ACGIH	TWA:20 ppm	A3: Confirmed animal carcin.
Xylene	1330-20-7	ACGIH	TWA:100 ppm;STEL:150 ppm	A4: Not class. as human carcin
COPPER, DUSTS AND MISTS, AS CU	7440-50-8	ACGIH	TWA(as Cu dust or mist):1 mg/m3	
COPPER, FUME AS CU	7440-50-8	ACGIH	TWA(as Cu, fume):0.2 mg/m3	
Methyl Methacrylate	80-62-6	ACGIH	TWA:50 ppm;STEL:100 ppm	Dermal Sensitizer, A4: Not class. as human carcin

ACGIH : American Conference of Governmental Industrial Hygienists
CMRG : Chemical Manufacturer's Recommended Guidelines
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
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/vapors/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

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Specific Physical Form:	Liquid
Appearance/Odor	Solvent Odor, Green Color
Odor threshold	*No Data Available*
pH	*Not Applicable*
Boiling point/boiling range	>=155.6 ºC
Melting point	*Not Applicable*
Flammability (solid, gas)	Not Applicable
Explosive properties:	Not Classified
Oxidising properties:	Not Classified
Flash Point	48.9 ºC [*Test Method:*Closed Cup]
Autoignition temperature	> 337.8 ºC
Flammable Limits(LEL)	0.5 %
Flammable Limits(UEL)	8.7 %
Vapor Pressure	<=453.3 Pa [@ 20 ºC]
Relative Density	1.07 [*Ref Std:*WATER=1]
Water solubility	Moderate
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Evaporation rate	*No Data Available*
Vapor Density	> 1 [*Ref Std:*AIR=1]
Decomposition temperature	*No Data Available*
Viscosity	5,000 - 7,000 mPa-s [*Test Method:*Tested per ASTM protocol]

Density	1.07 g/ml

9.2. Other information

EU Volatile Organic Compounds	*No Data Available*
Percent volatile	55 - 65 %

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 polymerization will not occur.

10.4. Conditions to avoid
Heat
Sparks and/or flames

10.5. Incompatible materials
Strong oxidizing 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 agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from 3M assessments.

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

blistering, and itching.

Eye Contact:
Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Ingestion:
May be harmful if swallowed.
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:
Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Prolonged or repeated exposure may cause target organ effects:
Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

Blood Effects: Signs/symptoms may include generalized weakness and fatigue, skin pallor, changes in blood clotting time, internal bleeding, and/or hemoglobinemia.

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

Reproductive/Developmental Toxicity:
Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

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 ATE1,000 - 2,000 mg/kg
Overall product	Inhalation-Vapor(4 hr)		No data available; calculated ATE10 - 20 mg/l
Overall product	Ingestion		No data available; calculated ATE2,000 - 5,000 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
Et 3-Ethoxypropionat	Dermal	Rabbit	LD50 4,080 mg/kg
Et 3-Ethoxypropionat	Inhalation-Vapor (4 hours)	Rat	LC50 > 14.4 mg/l
Et 3-Ethoxypropionat	Ingestion	Rat	LD50 3,200 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
Xylene	Dermal	Rabbit	LD50 > 4,200 mg/kg
Xylene	Inhalation-Vapor (4	Rat	LC50 29 mg/l

	hours)		
Xylene	Ingestion	Rat	LD50 3,523 mg/kg
2-BUTOXYETHYL ACETATE	Inhalation-Vapor	official classification	LC50 estimated to be 10 - 20 mg/l
2-BUTOXYETHYL ACETATE	Dermal	Rabbit	LD50 > 4,766 mg/kg
2-BUTOXYETHYL ACETATE	Ingestion	Rat	LD50 2,400 mg/kg
Epoxy Soybean Oil	Dermal	Rabbit	LD50 > 20,000 mg/kg
Epoxy Soybean Oil	Ingestion	Rat	LD50 > 5,000 mg/kg
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-	Dermal	Rat	LD50 > 2,000 mg/kg
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.8 mg/l
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-	Ingestion	Rat	LD50 > 5,000 mg/kg
Polymeric Benzotriazole	Dermal	Rat	LD50 > 2,000 mg/kg
Polymeric Benzotriazole	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.8 mg/l
Polymeric Benzotriazole	Ingestion	Rat	LD50 > 5,000 mg/kg
Copper	Dermal	Rat	LD50 > 2,000 mg/kg
Copper	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.11 mg/l
Copper	Ingestion	Rat	LD50 > 2,000 mg/kg
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Dermal		LD50 estimated to be 2,000 - 5,000 mg/kg
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Ingestion	Rat	LD50 3,125 mg/kg
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Dermal	Rabbit	LD50 > 2,000 mg/kg
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Ingestion	Rat	LD50 > 5,000 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
Zn (2-Et-Hexanoate)2	Dermal		LD50 estimated to be > 5,000 mg/kg
Zn (2-Et-Hexanoate)2	Ingestion	Rat	LD50 > 5,000 mg/kg
Methyl Methacrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
Methyl Methacrylate	Inhalation-Vapor (4 hours)	Rat	LC50 29 mg/l
Methyl Methacrylate	Ingestion	Rat	LD50 7,900 mg/kg
Triphenyl Phosphite	Dermal	Rabbit	LD50 > 2,000 mg/kg
Triphenyl Phosphite	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 1.7 mg/l
Triphenyl Phosphite	Ingestion	Rat	LD50 1,590 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Cyclohexanone	Rabbit	Irritant
Et 3-Ethoxypropionat	Rabbit	No significant irritation
VINYL ACETATE-VINYL ALCOHOL-VINYL CHLORIDE POLYMER	Professional judgement	No significant irritation
Xylene	Rabbit	Mild irritant
2-BUTOXYETHYL ACETATE	Rabbit	Minimal irritation
Epoxy Soybean Oil	Rabbit	No significant irritation

Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-	Rabbit	No significant irritation
Polymeric Benzotriazole	Rabbit	No significant irritation
Copper	Rabbit	No significant irritation
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Rabbit	No significant irritation
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Rabbit	Irritant
Toluene	Rabbit	Irritant
Zn (2-Et-Hexanoate)2	Rabbit	Mild irritant
Methyl Methacrylate	Human and animal	Mild irritant
Triphenyl Phosphite	Rabbit	Irritant

Serious Eye Damage/Irritation

Name	Species	Value
Cyclohexanone	Rabbit	Severe irritant
Et 3-Ethoxypropionat	Rabbit	Mild irritant
VINYL ACETATE-VINYL ALCOHOL-VINYL CHLORIDE POLYMER	Professional judgement	No significant irritation
Xylene	Rabbit	Mild irritant
2-BUTOXYETHYL ACETATE	Rabbit	Mild irritant
Epoxy Soybean Oil	Rabbit	No significant irritation
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-	Rabbit	No significant irritation
Polymeric Benzotriazole	Rabbit	No significant irritation
Copper	Rabbit	Mild irritant
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Rabbit	No significant irritation
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Rabbit	Mild irritant
Toluene	Rabbit	Moderate irritant
Zn (2-Et-Hexanoate)2	Rabbit	Severe irritant
Methyl Methacrylate	Rabbit	Moderate irritant
Triphenyl Phosphite	Rabbit	Moderate irritant

Skin Sensitization

Name	Species	Value
Cyclohexanone	Guinea pig	Not classified
Et 3-Ethoxypropionat	Guinea pig	Not classified
Epoxy Soybean Oil	Guinea pig	Not classified
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-	Guinea pig	Sensitizing
Polymeric Benzotriazole	Guinea pig	Sensitizing
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Guinea pig	Sensitizing
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Guinea pig	Not classified
Toluene	Guinea pig	Not classified
Methyl Methacrylate	Human and animal	Sensitizing
Triphenyl Phosphite	Mouse	Sensitizing

Respiratory Sensitization

Name	Species	Value

Methyl Methacrylate	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value
Cyclohexanone	In vivo	Not mutagenic
Cyclohexanone	In Vitro	Some positive data exist, but the data are not sufficient for classification
Et 3-Ethoxypropionat	In Vitro	Not mutagenic
Xylene	In Vitro	Not mutagenic
Xylene	In vivo	Not mutagenic
Epoxy Soybean Oil	In Vitro	Not mutagenic
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	In Vitro	Not mutagenic
Toluene	In Vitro	Not mutagenic
Toluene	In vivo	Not mutagenic
Methyl Methacrylate	In vivo	Not mutagenic
Methyl Methacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Cyclohexanone	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Xylene	Dermal	Rat	Not carcinogenic
Xylene	Ingestion	Multiple animal species	Not carcinogenic
Xylene	Inhalation	Human	Some positive data exist, but the data are not sufficient for classification
Epoxy Soybean Oil	Ingestion	Rat	Not carcinogenic
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
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
Methyl Methacrylate	Ingestion	Rat	Not carcinogenic
Methyl Methacrylate	Inhalation	Human and animal	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
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
Xylene	Inhalation	Not classified for female reproduction	Human	NOAEL Not available	occupational exposure
Xylene	Ingestion	Not classified for development	Mouse	NOAEL Not available	during organogenesis

Xylene	Inhalation	Not classified for development	Multiple animal species	NOAEL Not available	during gestation
Epoxy Soybean Oil	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	1 generation
Epoxy Soybean Oil	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	1 generation
Epoxy Soybean Oil	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	1 generation
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
Zn (2-Et-Hexanoate)2	Ingestion	Toxic to female reproduction	Rat	NOAEL 300 mg/kg/day	1 generation
Zn (2-Et-Hexanoate)2	Ingestion	Toxic to male reproduction	Rat	NOAEL 300 mg/kg/day	1 generation
Zn (2-Et-Hexanoate)2	Ingestion	Toxic to development	Rat	NOAEL 100 mg/kg/day	1 generation
Methyl Methacrylate	Inhalation	Not classified for male reproduction	Mouse	NOAEL 36.9 mg/l	
Methyl Methacrylate	Inhalation	Not classified for development	Rat	NOAEL 8.3 mg/l	during organogenesis

Lactation

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

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
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	
Xylene	Inhalation	auditory system	Causes damage to organs	Rat	LOAEL 6.3 mg/l	8 hours
Xylene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Xylene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Xylene	Inhalation	eyes	Not classified	Rat	NOAEL 3.5 mg/l	not available
Xylene	Inhalation	liver	Not classified	Multiple animal species	NOAEL Not available	
Xylene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	
Xylene	Ingestion	eyes	Not classified	Rat	NOAEL 250	not applicable

					mg/kg	
2-BUTOXYETHYL ACETATE	Dermal	kidney and/or bladder	Not classified	Rabbit	NOAEL Not available	24 hours
2-BUTOXYETHYL ACETATE	Dermal	blood	Not classified	Rabbit	LOAEL 3,191 mg/kg	24 hours
2-BUTOXYETHYL ACETATE	Dermal	heart | endocrine system | hematoppoitic system | liver | nervous system	Not classified	Rabbit	NOAEL 10,000 mg/kg	24 hours
2-BUTOXYETHYL ACETATE	Inhalation	central nervous system depression	Some positive data exist, but the data are not sufficient for classification	similar compoun ds	NOAEL Not available	
2-BUTOXYETHYL ACETATE	Inhalation	blood | heart | endocrine system | hematoppoitic system | liver | nervous system | kidney and/or bladder | respiratory system	Not classified	Multiple animal species	NOAEL 2.6 mg/l	4 hours
2-BUTOXYETHYL ACETATE	Ingestion	blood	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 2,400 mg/kg	not applicable
2-BUTOXYETHYL ACETATE	Ingestion	hematoppoitic system	Not classified	Rat	NOAEL 2,400 mg/kg	not applicable
2-BUTOXYETHYL ACETATE	Ingestion	kidney and/or bladder	Not classified	Rat	LOAEL 2,400 mg/kg	not applicable
2-BUTOXYETHYL ACETATE	Ingestion	heart | liver | nervous system	Not classified	Rat	NOAEL 3,000 mg/kg	not applicable
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Professio nal judgeme nt	NOAEL Not available	
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	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
Zn (2-Et-Hexanoate)2	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
Methyl Methacrylate	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	occupational exposure

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
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
Et 3-Ethoxypropionat	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 6 mg/l	90 days
Et 3-Ethoxypropionat	Inhalation	nervous system |	Not classified	Rat	NOAEL 6	17 days

		heart | liver | immune system | kidney and/or bladder			mg/l	
Et 3-Ethoxypropionat	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	17 days
Et 3-Ethoxypropionat	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Et 3-Ethoxypropionat	Ingestion	kidney and/or bladder | respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	17 days
Xylene	Inhalation	nervous system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.4 mg/l	4 weeks
Xylene	Inhalation	auditory system	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 7.8 mg/l	5 days
Xylene	Inhalation	liver	Not classified	Multiple animal species	NOAEL Not available	
Xylene	Inhalation	heart | endocrine system | gastrointestinal tract | hematopoietic system | muscles | kidney and/or bladder | respiratory system	Not classified	Multiple animal species	NOAEL 3.5 mg/l	13 weeks
Xylene	Ingestion	auditory system	Not classified	Rat	NOAEL 900 mg/kg/day	2 weeks
Xylene	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,500 mg/kg/day	90 days
Xylene	Ingestion	liver	Not classified	Multiple animal species	NOAEL Not available	
Xylene	Ingestion	heart | skin | endocrine system | bone, teeth, nails, and/or hair | hematopoietic system | immune system | nervous system | respiratory system	Not classified	Mouse	NOAEL 1,000 mg/kg/day	103 weeks
2-BUTOXYETHYL ACETATE	Inhalation	blood	May cause damage to organs though prolonged or repeated exposure	Multiple animal species	NOAEL 0.7 mg/l	10 months
2-BUTOXYETHYL ACETATE	Inhalation	kidney and/or bladder	Not classified	Multiple animal species	LOAEL 0.7 mg/l	10 months
2-BUTOXYETHYL ACETATE	Inhalation	heart | endocrine system | hematopoietic system | liver | nervous system | respiratory system	Not classified	Multiple animal species	NOAEL 0.7 mg/l	10 months
Epoxy Soybean Oil	Ingestion	liver | kidney and/or bladder	Not classified	Rat	NOAEL 1,250 mg/kg/day	2 years
Toluene	Inhalation	auditory system | nervous system | eyes | olfactory system	Causes damage to organs through 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
Methyl Methacrylate	Dermal	peripheral nervous system	Not classified	Human	NOAEL Not available	occupational exposure
Methyl Methacrylate	Inhalation	olfactory system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Methyl Methacrylate	Inhalation	kidney and/or bladder	Not classified	Multiple animal species	NOAEL Not available	14 weeks
Methyl Methacrylate	Inhalation	liver	Not classified	Mouse	NOAEL 12.3 mg/l	14 weeks
Methyl Methacrylate	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Triphenyl Phosphite	Ingestion	nervous system	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 15 mg/kg/day	28 days

Aspiration Hazard

Name	Value
Xylene	Aspiration hazard
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	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 agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

12.1. Toxicity

No product test data available

3M(TM) Screen Printing Ink 1924 Light Green

Material	CAS #	Organism	Type	Exposure	Test Endpoint	Test Result
Cyclohexanone	108-94-1	Fathead Minnow	Experimental	96 hours	Lethal Concentration 50%	527 mg/l
Cyclohexanone	108-94-1	Algae	Experimental	72 hours	Effect Concentration 50%	32.9 mg/l
Cyclohexanone	108-94-1	Water flea	Experimental	24 hours	Effect Concentration 50%	800 mg/l
Cyclohexanone	108-94-1	Algae	Experimental	72 hours	Effect Concentration 10%	3.56 mg/l
Et 3-Ethoxypropionat	763-69-9	Water flea	Experimental	48 hours	Effect Concentration 50%	>92 mg/l
Et 3-Ethoxypropionat	763-69-9	Green Algae	Experimental	72 hours	Effect Concentration 50%	>86 mg/l
Et 3-Ethoxypropionat	763-69-9	Fathead Minnow	Experimental	96 hours	Lethal Concentration 50%	45.3 mg/l
Et 3-Ethoxypropionat	763-69-9	Green Algae	Experimental	72 hours	No obs Effect Conc	86 mg/l
VINYL ACETATE-VINYL ALCOHOL-VINYL CHLORIDE POLYMER	25086-48-0		Data not available or insufficient for classification			
2-BUTOXYETHYL ACETATE	112-07-2	Green Algae	Experimental	72 hours	Effect Concentration 50%	1,570 mg/l
2-BUTOXYETHYL ACETATE	112-07-2	Water flea	Experimental	48 hours	Effect Concentration 50%	37 mg/l
2-BUTOXYETHYL ACETATE	112-07-2	Rainbow Trout	Experimental	96 hours	Lethal Concentration 50%	28 mg/l
2-BUTOXYETHYL ACETATE	112-07-2	Water flea	Experimental	7 days	Effect Concentration 10%	30.4 mg/l
2-BUTOXYETHYL ACETATE	112-07-2	Green Algae	Experimental	72 hours	No obs Effect Conc	300 mg/l
Xylene	1330-20-7		Data not available or insufficient for classification			
Epoxy Soybean Oil	8013-07-8	Water flea	Experimental	24 hours	Effect Concentration 50%	>100 mg/l
Copper	7440-50-8	Green Algae	Experimental	72 hours	No obs Effect Conc	0.0003 mg/l
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-	104810-48-2		Data not available or insufficient for classification			
Polymeric Benzotriazole	104810-47-1		Data not available or insufficient for classification			
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	64742-94-5	Water flea	Experimental	48 hours	Effect Concentration 50%	0.95 mg/l
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	64742-94-5	Rainbow Trout	Experimental	96 hours	Lethal Concentration 50%	2.34 mg/l
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	64742-94-5	Green Algae	Experimental	96 hours	Inhibitory Concentration 50%	4.2 mg/l
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	915-687-0	Zebra Fish	Experimental	96 hours	Lethal Concentration 50%	0.9 mg/l

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	915-687-0	Green algae	Experimental	72 hours	Effect Concentration 50%	1.68 mg/l
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	915-687-0	Water flea	Experimental	21 days	No obs Effect Conc	1 mg/l
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	915-687-0	Green algae	Experimental	72 hours	No obs Effect Conc	0.22 mg/l
Toluene	108-88-3	Green Algae	Experimental	72 hours	Effect Concentration 50%	12.5 mg/l
Toluene	108-88-3	Fish other	Experimental	96 hours	Lethal Concentration 50%	6.41 mg/l
Toluene	108-88-3	Coho Salmon	Experimental	96 hours	Lethal Concentration 50%	5.5 mg/l
Toluene	108-88-3	Water flea	Experimental	48 hours	Effect Concentration 50%	3.78 mg/l
Toluene	108-88-3	Water flea	Experimental	7 days	No obs Effect Conc	0.74 mg/l
Toluene	108-88-3	Coho salmon	Experimental	40 days	No obs Effect Conc	1.39 mg/l
Zn (2-Et-Hexanoate)2	136-53-8	Rainbow Trout	Experimental	96 hours	Lethal Concentration 50%	0.44 mg/l
Zn (2-Et-Hexanoate)2	136-53-8	Water flea	Experimental	48 hours	Effect Concentration 50%	1.6 mg/l
Methyl Methacrylate	80-62-6	Rainbow Trout	Experimental	96 hours	Lethal Concentration 50%	>79 mg/l
Methyl Methacrylate	80-62-6	Green Algae	Experimental	72 hours	Effect Concentration 50%	>110 mg/l
Methyl Methacrylate	80-62-6	Water flea	Experimental	48 hours	Effect Concentration 50%	69 mg/l
Methyl Methacrylate	80-62-6	Green algae	Experimental	72 hours	No obs Effect Conc	110 mg/l
Methyl Methacrylate	80-62-6	Water flea	Experimental	21 days	No obs Effect Conc	37 mg/l
Triphenyl Phosphite	101-02-0	Green Algae	Experimental	72 hours	Effect Concentration 50%	>16 mg/l
Triphenyl Phosphite	101-02-0	Ricefish	Experimental	96 hours	Lethal Concentration 50%	>4.3 mg/l
Triphenyl Phosphite	101-02-0	Water flea	Experimental	48 hours	Effect Concentration 50%	0.45 mg/l
Triphenyl Phosphite	101-02-0	Green Algae	Experimental	72 hours	No obs Effect Conc	16 mg/l

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Cyclohexanone	108-94-1	Experimental Biodegradation	14 days	Biological Oxygen Demand	87 % BOD/ThBOD	OECD 301C - MITI (I)
Et 3-Ethoxypropionat	763-69-9	Experimental Photolysis		Photolytic half-life (in air)	1.2 days (t 1/2)	Other methods
Et 3-Ethoxypropionat	763-69-9	Experimental Biodegradation	18 days	% CO2 Produced	100 % weight	OECD 301B - Mod. Sturm or CO2
VINYL ACETATE-VINYL ALCOHOL-VINYL	25086-48-0	Data not availbl-insufficient			N/A	

CHLORIDE POLYMER						
2-BUTOXYETHYL ACETATE	112-07-2	Experimental Biodegradation	28 days	Biological Oxygen Demand	88 % BOD/ThBOD	OECD 301F - Manometric Respiro
Xylene	1330-20-7	Data not availbl-insufficient			N/A	
Epoxy Soybean Oil	8013-07-8	Experimental Biodegradation	28 days	Biological Oxygen Demand	78 % weight	OECD 301D - Closed Bottle Test
Copper	7440-50-8	Data not availbl-insufficient			N/A	
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-	104810-48-2	Estimated Biodegradation	28 days	Biological Oxygen Demand	43 % weight	OECD 301F - Manometric Respiro
Polymeric Benzotriazole	104810-47-1	Estimated Biodegradation	28 days	Biological Oxygen Demand	33 % weight	OECD 301F - Manometric Respiro
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	64742-94-5	Estimated Photolysis		Photolytic half-life (in air)	2.1 days (t 1/2)	Other methods
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	64742-94-5	Experimental Biodegradation	28 days	Biological Oxygen Demand	39 % weight	OECD 301D - Closed Bottle Test
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	915-687-0	Estimated Biodegradation	28 days	Dissolv. Organic Carbon Deplet	38 % weight	OECD 301E - Modified OECD Scre
Toluene	108-88-3	Experimental Photolysis		Photolytic half-life (in air)	5.2 days (t 1/2)	Other methods
Toluene	108-88-3	Experimental Biodegradation	20 days	Biological Oxygen Demand	80 % weight	
Zn (2-Et-Hexanoate)2	136-53-8	Data not availbl-insufficient			N/A	
Methyl Methacrylate	80-62-6	Experimental Biodegradation	14 days	Biological Oxygen Demand	94 % BOD/ThBOD	OECD 301C - MITI (I)
Triphenyl Phosphite	101-02-0	Experimental Hydrolysis		Hydrolytic half-life	0.5 hours (t 1/2)	Other methods
Triphenyl Phosphite	101-02-0	Estimated Biodegradation	14 days	Biological Oxygen Demand	85 % BOD/ThBOD	OECD 301C - MITI (I)

12.3. Bioaccumulative potential

Material	Cas No.	Test Type	Duration	Study Type	Test Result	Protocol
Cyclohexanone	108-94-1	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	0.86	Other methods
Et 3-Ethoxypropionat	763-69-9	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	1.35	Other methods
VINYL ACETATE-VINYL ALCOHOL-VINYL CHLORIDE POLYMER	25086-48-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2-BUTOXYETHYL ACETATE	112-07-2	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	1.51	Other methods
Xylene	1330-20-7	Experimental BCF - Rainbow Tr	56 days	Bioaccumulation Factor	14	Other methods
Epoxy Soybean Oil	8013-07-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Copper	7440-50-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-	104810-48-2	Estimated Bioconcentration		Bioaccumulation Factor	3.8	Est: Bioconcentration factor
Polymeric Benzotriazole	104810-47-1	Estimated Bioconcentration		Bioaccumulation Factor	7.4	Other methods
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	64742-94-5	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	6.1	Other methods
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	915-687-0	Estimated BCF-Carp	56 days	Bioaccumulation Factor	31.4	
Toluene	108-88-3	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	2.73	Other methods
Zn (2-Et-Hexanoate)2	136-53-8	Estimated Bioconcentration		Log of Octanol/H2O part. coeff	2.7	Other methods
Methyl Methacrylate	80-62-6	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	1.38	Other methods
Triphenyl Phosphite	101-02-0	Estimated Bioconcentration		Bioaccumulation Factor	13800	Est: Bioconcentration factor

12.4. Mobility in soil
Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

This material does not contain any substances that are assessed to be a PBT or vPvB

12.6. Other adverse effects
No information available

SECTION 13: Disposal considerations

13.1 Waste treatment 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. 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.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/CE and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor

EU waste code (product as sold)
200127* Paint, inks, adhesives and resins containing dangerous substances

SECTION 14: Transportation information

ADR: UN1210; Printing Ink; 3; III; (E); F1.
IATA: UN1210; Printing Ink; 3; III.
IMDG: UN1210; Printing Ink; 3; III; FE,SD.

SECTION 15: Regulatory information

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

Carcinogenicity

Ingredient	C.A.S. No.	Classification	Regulation
Cyclohexanone	108-94-1	Gr. 3: Not classifiable	International Agency for Research on Cancer
Methyl Methacrylate	80-62-6	Gr. 3: Not classifiable	International Agency for Research on Cancer
Toluene	108-88-3	Gr. 3: Not classifiable	International Agency for Research on Cancer
Xylene	1330-20-7	Gr. 3: Not classifiable	International Agency for Research on Cancer

Global inventory status
Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. The components of this product are in compliance with the chemical notification requirements of TSCA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory.

SECTION 16: Other information

List of relevant H statements

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H361df	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Revision information:
Section 02: CLP Ingredient table information was modified.
Section 02: CLP Remark(phrase) information was added.
Section 02: Label Elements: CLP Classification information was modified.
Section 02: Label Elements: CLP Percent Unknown information was modified.
Section 02: Label Elements: CLP Precautionary - Prevention information was modified.
Section 03: Composition/ Information of ingredients table information was modified.
Section 04: First aid for eye contact information information was modified.
Section 05: Fire - Advice for fire fighters information information was modified.
Section 06: Accidental release clean-up information information was modified.
Section 07: Precautions safe handling information information was modified.
Section 08: Eye/face protection information information was modified.
Section 08: glove data value information was deleted.
Section 08: Occupational exposure limit table information was modified.
Section 08: Skin protection - recommended gloves information information was added.
Section 09: Flash point information information was modified.
Section 09: Property description for optional properties information was modified.
Section 09: Relative density information information was modified.
Section 09: Vapor density value information was modified.
Section 09: Vapor pressure value information was modified.
Section 09: Viscosity information information was modified.
Section 11: Acute Toxicity table information was modified.
Section 11: Aspiration Hazard Table information was modified.
Section 11: Carcinogenicity Table information was modified.
Section 11: Germ Cell Mutagenicity Table information was modified.
Section 11: Health Effects - Skin information information was modified.
Section 11: Lactation Table information was added.
Section 11: Prolonged or repeated exposure may cause standard phrases information was modified.
Section 11: Reproductive Toxicity Table information was modified.
Section 11: Respiratory Sensitization Table information was modified.
Section 11: Serious Eye Damage/Irritation Table information was modified.
Section 11: Single exposure may cause standard phrases information was modified.
Section 11: Skin Corrosion/Irritation Table information was modified.
Section 11: Skin Sensitization Table information was modified.
Section 11: Target Organs - Repeated Table information was modified.
Section 11: Target Organs - Single Table information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: No PBT/vPvB information available warning information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12:Bioccumulative potential information information was modified.
Section 13: Standard Phrase Category Waste GHS information was modified.
Section 15: 15.2. Chemical Safety Assessment information was deleted.
Section 15: Carcinogenicity information information was modified.
Section 15: Chemical Safety Assessment information was deleted.
Section 15: Label remarks and EU Detergent information was deleted.
Section 15: Regulations - Inventories information was modified.
Section 16: Two-column table displaying the unique list of H Codes and statements (std phrses) for all components of the given material. information was modified.

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 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.

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