

Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3MTM Process Color 886N Orange

Product Identification Numbers

42-0021-9016-5, 75-0301-4138-8 7000055589

1.2. Recommended use and restrictions on use

Recommended use

Ink

1.3. Supplier's details

MANUFACTURER: 3M

DIVISION: Transportation Safety Division

ADDRESS: 3M Center, St. Paul, MN 55144-1000, USA

Telephone: 1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification

Flammable Liquid: Category 3.

Serious Eye Damage/Irritation: Category 1. Skin Corrosion/Irritation: Category 2.

Skin Sensitizer: Category 1.

Reproductive Toxicity: Category 1B.

Carcinogenicity: Category 1A.

Specific Target Organ Toxicity (single exposure): Category 3.

2.2. Label elements

Signal word

Danger

Symbols

Flame | Corrosion | Exclamation mark | Health Hazard |

Pictograms



Hazard Statements

Flammable liquid and vapor.

Causes serious eye damage.

Causes skin irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

May damage fertility or the unborn child.

May cause cancer.

Precautionary Statements

Prevention:

Obtain special instructions before use.

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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves and eye/face protection.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Keep cool.

Store locked up.

Disposal:

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

19% of the mixture consists of ingredients of unknown acute oral toxicity.

19% of the mixture consists of ingredients of unknown acute dermal toxicity. 31% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
2-Propenoic acid, 2-methyl-, polymer with butyl 2-	28262-63-7	10 - 30 Trade Secret *
methyl-2-propenoate and methyl 2-methyl-2-propenoate		
Heavy aromatic solvent naphtha (Petroleum)	64742-94-5	10 - 30 Trade Secret *
Acrylic polymers	Trade Secret*	10 - 30 Trade Secret *
Pine oil	8002-09-3	7 - 13 Trade Secret *
1-Methoxy-2-propyl acetate	108-65-6	3 - 7 Trade Secret *
Cyclohexanone	108-94-1	3 - 7 Trade Secret *
1,2,4-Trimethylbenzene	95-63-6	1 - 5 Trade Secret *
Light aromatic solvent naphtha (Petroleum)	64742-95-6	1 - 5 Trade Secret *
Organic pigment (New Jersey Trade Secret Registry # 04499600-5836P)	Trade Secret*	1 - 5 Trade Secret *
Vinyl polymer (NJ TSR # 04499600-5238P)	Trade Secret*	1 - 5 Trade Secret *
2,3,4,5-Tetrachloro-6-cyanobenzoic acid, methyl ester,	106276-79-3	0.1 - 1 Trade Secret *
reaction products with 2-methyl-1,3-benzenediamine and		
sodium methoxide		
2,6-Dimethyl-4-heptanone	108-83-8	0.1 - 1 Trade Secret *
3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl) -2,5-	79720-19-7	0.1 - 1 Trade Secret *
pyrrolidinedione		
Xylene	1330-20-7	0.1 - 1 Trade Secret *
D-Limonene	5989-27-5	< 0.5 Trade Secret *
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	68511-62-6	< 0.4 Trade Secret *
(3',4'-Epoxycyclohexylmethyl) 3,4-	2386-87-0	< 0.3 Trade Secret *
epoxycyclohexanecarboxylate		
Ethylbenzene	100-41-4	< 0.3 Trade Secret *
Naphthalene	91-20-3	< 0.3 Trade Secret *
N-Butyl Methacrylate	97-88-1	< 0.3 Trade Secret *
Cumene	98-82-8	< 0.2 Trade Secret *
Glycolic acid, butyl ester	7397-62-8	< 0.2 Trade Secret *
Toluene	108-88-3	< 0.2 Trade Secret *
Nickel salts of naphthenic acids	61788-71-4	< 0.02 Trade Secret *

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

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.

^{*}The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

Eye Contact:

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

If Swallowed:

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

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

Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness).

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. Exposure to extreme heat can give rise to thermal decomposition.

Hazardous Decomposition or By-Products

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

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

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 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 SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not breathe thermal decomposition products. 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 cool. Keep container tightly closed. Store away from acids. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Ethylbenzene	100-41-4	ACGIH	TWA:20 ppm	A3: Confirmed animal
				carcin., Ototoxicant
Ethylbenzene	100-41-4	OSHA	TWA:435 mg/m3(100 ppm)	
1-Methoxy-2-propyl acetate	108-65-6	AIHA	TWA:50 ppm	
2,6-Dimethyl-4-heptanone	108-83-8	ACGIH	TWA:25 ppm	
2,6-Dimethyl-4-heptanone	108-83-8	OSHA	TWA:290 mg/m3(50 ppm)	
Toluene	108-88-3	ACGIH	TWA:20 ppm	A4: Not class. as human
				carcin, Ototoxicant
Toluene	108-88-3	OSHA	TWA:200 ppm;CEIL:300 ppm	
Cyclohexanone	108-94-1	ACGIH	TWA:20 ppm;STEL:50 ppm	A3: Confirmed animal
				carcin., Danger of
				cutaneous absorption
Cyclohexanone	108-94-1	OSHA	TWA:200 mg/m3(50 ppm)	
Xylene	1330-20-7	ACGIH	TWA:20 ppm;STEL:150 ppm	A4: Not class. as human
				carcin
Xylene	1330-20-7	OSHA	TWA:435 mg/m3(100 ppm)	
D-Limonene	5989-27-5	AIHA	TWA:165.5 mg/m3(30 ppm)	
NICKEL, SOLUBLE	61788-71-4	OSHA	TWA(as Ni):1 mg/m3	
COMPOUNDS				
NICKEL, INSOLUBLE	68511-62-6	OSHA	TWA(as Ni):1 mg/m3	
COMPOUNDS				
Naphthalene	91-20-3	ACGIH	TWA:10 ppm	A3: Confirmed animal

				carcin., Danger of cutaneous absorption
Naphthalene	91-20-3	OSHA	TWA:50 mg/m3(10 ppm)	
1,2,4-Trimethylbenzene	95-63-6	ACGIH	TWA:10 ppm	A4: Not class. as human
				carcin
Cumene	98-82-8	ACGIH	TWA:5 ppm	A3: Confirmed animal
				carcin.
Cumene	98-82-8	OSHA	TWA:245 mg/m3(50 ppm)	SKIN

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use with appropriate local exhaust ventilation sufficient to maintain levels of thermal decomposition products below their exposure guidelines. 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:

For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use a positive pressure supplied-air respirator.

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

Appearance

Physical stateLiquidColorOrange

Odor Solvent

Odor thresholdNo Data AvailablepHNot ApplicableMelting pointNot ApplicableBoiling Point>=284 °F

Flash Point 126 °F [Test Method: Closed Cup]
Evaporation rate <=0.05 [Ref Std: BUOAC=1]

Flammability (solid, gas)

Flammable Limits(LEL)

Flammable Limits(UEL)

Vapor Pressure

Vapor Density

Density

No Data Available

No Data Available

No Data Available

No Data Available

0.98 g/ml [@ 20 °C]

Specific Gravity

No Solid (20 °C)

Specific Gravity

No Data Available

0.98 g/ml [@ 20 °C]

Solubility In WaterNo Data AvailableSolubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosity1,000 - 1,200 centipoise

Volatile Organic Compounds 500 - 700 g/l **Percent volatile** 50 - 65 % weight

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

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 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 labeling, 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:

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.

May cause additional health effects (see below).

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:

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:

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

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.

Ingredient	CAS No.	Class Description	Regulation
Nickel Compounds (except alloys)	61788-71-4	Known To Be Human Carcinogen.	National Toxicology Program Carcinogens
Nickel Compounds (except alloys)	68511-62-6	Known To Be Human Carcinogen.	National Toxicology Program Carcinogens
Nickel compounds	61788-71-4	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Nickel compounds	68511-62-6	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Coal gasification	91-20-3	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Coke production	91-20-3	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Soot (as found in occupational exposure of	91-20-3	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
chimney sweeps)			

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Soots	91-20-3	Known To Be Human Carcinogen.	National Toxicology Program Carcinogens
Butyl methacrylate	97-88-1	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Cumene	98-82-8	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Cumene	98-82-8	Anticipated human carcinogen	National Toxicology Program Carcinogens
Ethylbenzene	100-41-4	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Naphthalene	91-20-3	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Naphthalene	91-20-3	Anticipated human carcinogen	National Toxicology Program Carcinogens

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 >2,000 - =5,000 mg/kg
Heavy aromatic solvent naphtha (Petroleum)	Inhalation- Vapor	Professio nal judgeme	LC50 estimated to be 20 - 50 mg/l
Heavy aromatic colvent newhths (Detroleum)	Dermal	nt Rabbit	LD50 > 2,000 mg/kg
Heavy aromatic solvent naphtha (Petroleum) Heavy aromatic solvent naphtha (Petroleum)	Ingestion	Rat	LD50 > 5,000 mg/kg
2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-	Dermal	Kat	LD50 > 5,000 mg/kg LD50 estimated to be > 5,000 mg/kg
propenoate and methyl 2-methyl-2-propenoate			
2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2- propenoate and methyl 2-methyl-2-propenoate	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Pine oil	Dermal	Rat	LD50 > 2,000 mg/kg
Pine oil	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 4.76 mg/l
Pine oil	Ingestion	Rat	LD50 > 2,000 mg/kg
Cyclohexanone	Dermal	Rabbit	LD50 > 2,000 mg/kg LD50 > 794, <3160 mg/kg
Cyclohexanone	Inhalation- Vapor (4 hours)	Rat	LC50 > 6.2 mg/l
Cyclohexanone	Ingestion	Rat	LD50 1,296 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
Light aromatic solvent naphtha (Petroleum)	Dermal	Rabbit	LD50 > 2,000 mg/kg
Light aromatic solvent naphtha (Petroleum)	Inhalation- Vapor (4 hours)	Rat	LC50 > 5.2 mg/l
Light aromatic solvent naphtha (Petroleum)	Ingestion	Rat	LD50 > 5,000 mg/kg
Vinyl polymer (NJ TSR # 04499600-5238P)	Dermal	Rabbit	LD50 > 8,000 mg/kg
Vinyl polymer (NJ TSR # 04499600-5238P)	Ingestion	Rat	LD50 > 8,000 mg/kg
Organic pigment (New Jersey Trade Secret Registry # 04499600-5836P)	Dermal	Rat	LD50 > 2,000 mg/kg
Organic pigment (New Jersey Trade Secret Registry # 04499600-5836P)	Ingestion	Rat	LD50 > 5,000 mg/kg
1,2,4-Trimethylbenzene	Dermal	Rabbit	LD50 > 3,160 mg/kg
1,2,4-Trimethylbenzene	Inhalation- Vapor (4 hours)	Rat	LC50 18 mg/l
1,2,4-Trimethylbenzene	Ingestion	Rat	LD50 3,400 mg/kg
Xylene	Dermal	Rabbit	LD50 > 4,200 mg/kg
Xylene	Inhalation- Vapor (4 hours)	Rat	LC50 29 mg/l

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Xylene	Ingestion	Rat	LD50 3,523 mg/kg
2,6-Dimethyl-4-heptanone	Dermal	Rat	LD50 > 2,000 mg/kg
2,6-Dimethyl-4-neptanone	Inhalation-	Rat	LC50 > 15.8 mg/l
2,6-Dimethyl-4-neptanone	Vapor (4	Kat	LC30 > 15.8 mg/1
	hours)		
2.6 Dimathyl 4 hantanana		Rat	LD50 5,265 mg/kg
2,6-Dimethyl-4-heptanone 2,3,4,5-Tetrachloro-6-cyanobenzoic acid, methyl ester, reaction	Ingestion	•	LC50 > 1.04 mg/l
	Inhalation- Dust/Mist	Rat	LC30 > 1.04 mg/1
products with 2-methyl-1,3-benzenediamine and sodium methoxide	(4 hours)		
		D. 4	LD50 > 5 000 //
2,3,4,5-Tetrachloro-6-cyanobenzoic acid, methyl ester, reaction	Ingestion	Rat	LD50 > 5,000 mg/kg
products with 2-methyl-1,3-benzenediamine and sodium			
methoxide 2,3,4,5-Tetrachloro-6-cyanobenzoic acid, methyl ester, reaction	D I	,	LD50 (11 1 > 5 000 //
	Dermal	similar	LD50 estimated to be > 5,000 mg/kg
products with 2-methyl-1,3-benzenediamine and sodium		health	
methoxide	D 1	hazards	LD50 - 2 000 //
3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl) -2,5-	Dermal	Rabbit	LD50 > 2,000 mg/kg
pyrrolidinedione			
3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl) -2,5-	Inhalation-	Rat	LC50 > 5 mg/l
pyrrolidinedione	Dust/Mist		
	(4 hours)		
3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl) -2,5-	Ingestion	Rat	LD50 > 2,000 mg/kg
pyrrolidinedione	ļ		
D-Limonene	Inhalation-	Mouse	LC50 > 3.14 mg/l
	Vapor (4		
	hours)		
D-Limonene	Dermal	Rabbit	LD50 > 5,000 mg/kg
D-Limonene	Ingestion	Rat	LD50 4,400 mg/kg
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	Dermal	Professio	LD50 estimated to be > 5,000 mg/kg
•		nal	
		judgeme	
		nt	
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	Inhalation-	Rat	LC50 > 5.222 mg/l
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Dust/Mist		
	(4 hours)		
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	Ingestion	Rat	LD50 > 5,000 mg/kg
N-Butyl Methacrylate	Dermal	Rabbit	LD50 > 2,000 mg/kg
N-Butyl Methacrylate	Inhalation-	Rat	LC50 > 27 mg/l
The Budge Made and the Budge a	Dust/Mist	1440	Det 27 mg
	(4 hours)		
N-Butyl Methacrylate	Ingestion	Rat	LD50 > 2,000 mg/kg
Naphthalene	Dermal	Human	LD50 estimated to be 2,000 - 5,000 mg/kg
Naphthalene	Inhalation-	Human	LC50 estimated to be 20 - 50 mg/l
Naphthalene	Vapor	Tuillali	LC30 estimated to be 20 - 30 mg/1
Naphthalene	Ingestion	Human	LD50 estimated to be 300 - 2,000 mg/kg
Ethylbenzene	Dermal	Rabbit	
			LD50 15,433 mg/kg
Ethylbenzene	Inhalation-	Rat	LC50 17.4 mg/l
	Vapor (4 hours)		
	r domst	•	
Edually	/	D-4	LD50 47(0 /l
Ethylbenzene	Ingestion	Rat	LD50 4,769 mg/kg
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate	Ingestion Dermal	Rabbit	LD50 > 23,400 mg/kg
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate	Ingestion Dermal Ingestion	Rabbit Rat	LD50 > 23,400 mg/kg LD50 5,000 mg/kg
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate Cumene	Ingestion Dermal Ingestion Dermal	Rabbit Rat Rabbit	LD50 > 23,400 mg/kg LD50 5,000 mg/kg LD50 > 3,160 mg/kg
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate	Ingestion Dermal Ingestion Dermal Inhalation-	Rabbit Rat	LD50 > 23,400 mg/kg LD50 5,000 mg/kg
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate Cumene	Ingestion Dermal Ingestion Dermal Inhalation- Vapor (4	Rabbit Rat Rabbit	LD50 > 23,400 mg/kg LD50 5,000 mg/kg LD50 > 3,160 mg/kg
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate Cumene Cumene	Ingestion Dermal Ingestion Dermal Inhalation- Vapor (4 hours)	Rabbit Rat Rabbit Rat	LD50 > 23,400 mg/kg LD50 5,000 mg/kg LD50 > 3,160 mg/kg LC50 39.4 mg/l
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate Cumene Cumene	Ingestion Dermal Ingestion Dermal Inhalation- Vapor (4 hours) Ingestion	Rabbit Rat Rabbit Rat Rat	LD50 > 23,400 mg/kg LD50 5,000 mg/kg LD50 > 3,160 mg/kg LC50 39.4 mg/l
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate Cumene Cumene Toluene	Ingestion Dermal Ingestion Dermal Inhalation- Vapor (4 hours) Ingestion Dermal	Rabbit Rat Rabbit Rat Rat Rat Rat	LD50 > 23,400 mg/kg LD50 5,000 mg/kg LD50 > 3,160 mg/kg LC50 39.4 mg/l LD50 1,400 mg/kg LD50 12,000 mg/kg
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate Cumene Cumene	Ingestion Dermal Ingestion Dermal Inhalation- Vapor (4 hours) Ingestion Dermal Inhalation-	Rabbit Rat Rabbit Rat Rat	LD50 > 23,400 mg/kg LD50 5,000 mg/kg LD50 > 3,160 mg/kg LC50 39.4 mg/l
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate Cumene Cumene Toluene	Ingestion Dermal Ingestion Dermal Inhalation- Vapor (4 hours) Ingestion Dermal Inhalation- Vapor (4	Rabbit Rat Rabbit Rat Rat Rat Rat	LD50 > 23,400 mg/kg LD50 5,000 mg/kg LD50 > 3,160 mg/kg LC50 39.4 mg/l LD50 1,400 mg/kg LD50 12,000 mg/kg
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate Cumene Cumene Toluene	Ingestion Dermal Ingestion Dermal Inhalation- Vapor (4 hours) Ingestion Dermal Inhalation-	Rabbit Rat Rabbit Rat Rat Rat Rat	LD50 > 23,400 mg/kg LD50 5,000 mg/kg LD50 > 3,160 mg/kg LC50 39.4 mg/l LD50 1,400 mg/kg LD50 12,000 mg/kg
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate Cumene Cumene Toluene	Ingestion Dermal Ingestion Dermal Inhalation- Vapor (4 hours) Ingestion Dermal Inhalation- Vapor (4 hours)	Rabbit Rat Rabbit Rat Rat Rat Rat	LD50 > 23,400 mg/kg LD50 5,000 mg/kg LD50 > 3,160 mg/kg LC50 39.4 mg/l LD50 1,400 mg/kg LD50 12,000 mg/kg LC50 30 mg/l
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate Cumene Cumene Toluene Toluene Toluene	Ingestion Dermal Ingestion Dermal Inhalation- Vapor (4 hours) Ingestion Dermal Inhalation- Vapor (4	Rabbit Rat Rabbit Rat Rat Rat Rat Rat Rat Rat	LD50 > 23,400 mg/kg LD50 5,000 mg/kg LD50 > 3,160 mg/kg LC50 39.4 mg/l LD50 1,400 mg/kg LD50 12,000 mg/kg LC50 30 mg/l
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate Cumene Cumene Toluene Toluene Toluene Glycolic acid, butyl ester	Ingestion Dermal Ingestion Dermal Inhalation- Vapor (4 hours) Ingestion Dermal Inhalation- Vapor (4 hours) Ingestion Dermal Inhalation- Vapor (4 hours) Ingestion Dermal	Rabbit Rat Rabbit Rat Rat Rat Rat Rat Rat Rat Rat	LD50 > 23,400 mg/kg LD50 5,000 mg/kg LD50 > 3,160 mg/kg LC50 39.4 mg/l LD50 1,400 mg/kg LD50 12,000 mg/kg LC50 30 mg/l LD50 5,550 mg/kg LD50 5,550 mg/kg LD50 estimated to be 2,000 - 5,000 mg/kg
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate Cumene Cumene Toluene Toluene Toluene	Ingestion Dermal Ingestion Dermal Inhalation- Vapor (4 hours) Ingestion Dermal Inhalation- Vapor (4 hours) Ingestion Dermal Inhalation- Vapor (4 hours) Ingestion Dermal Inhalation-	Rabbit Rat Rabbit Rat Rat Rat Rat Rat Rat Rat	LD50 > 23,400 mg/kg LD50 5,000 mg/kg LD50 > 3,160 mg/kg LC50 39.4 mg/l LD50 1,400 mg/kg LD50 12,000 mg/kg LC50 30 mg/l
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate Cumene Cumene Toluene Toluene Toluene Glycolic acid, butyl ester	Ingestion Dermal Ingestion Dermal Inhalation- Vapor (4 hours) Ingestion Dermal Inhalation- Vapor (4 hours) Ingestion Dermal Inhalation- Vapor (4 hours) Ingestion Dermal Inhalation- Dermal Inhalation- Dust/Mist	Rabbit Rat Rabbit Rat Rat Rat Rat Rat Rat Rat Rat	LD50 > 23,400 mg/kg LD50 5,000 mg/kg LD50 > 3,160 mg/kg LC50 39.4 mg/l LD50 1,400 mg/kg LD50 12,000 mg/kg LC50 30 mg/l LD50 5,550 mg/kg LD50 5,550 mg/kg LD50 estimated to be 2,000 - 5,000 mg/kg
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate Cumene Cumene Toluene Toluene Toluene Glycolic acid, butyl ester	Ingestion Dermal Ingestion Dermal Inhalation- Vapor (4 hours) Ingestion Dermal Inhalation- Vapor (4 hours) Ingestion Dermal Inhalation- Vapor (4 hours) Ingestion Dermal Inhalation-	Rabbit Rat Rabbit Rat Rat Rat Rat Rat Rat Rat Rat	LD50 > 23,400 mg/kg LD50 5,000 mg/kg LD50 > 3,160 mg/kg LC50 39.4 mg/l LD50 1,400 mg/kg LD50 12,000 mg/kg LC50 30 mg/l LD50 5,550 mg/kg LD50 5,550 mg/kg LD50 estimated to be 2,000 - 5,000 mg/kg

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Nickel salts of naphthenic acids	Ingestion	Rat	LD50 419 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Harry and a selection of the Control	D-LL:4	Minimal irritation
Heavy aromatic solvent naphtha (Petroleum)	Rabbit	
Pine oil	Rabbit	Irritant
Cyclohexanone	Rabbit	Irritant
1-Methoxy-2-propyl acetate	Rabbit	No significant irritation
Light aromatic solvent naphtha (Petroleum)	Rabbit	Irritant
Vinyl polymer (NJ TSR # 04499600-5238P)	Professio	No significant irritation
	nal	
	judgeme	
	nt	
Organic pigment (New Jersey Trade Secret Registry # 04499600-5836P)	Rabbit	No significant irritation
1,2,4-Trimethylbenzene	Rabbit	Irritant
Xylene	Rabbit	Mild irritant
2,6-Dimethyl-4-heptanone	Rabbit	Minimal irritation
2,3,4,5-Tetrachloro-6-cyanobenzoic acid, methyl ester, reaction products with 2-methyl-1,3-benzenediamine and sodium methoxide	Rabbit	No significant irritation
3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl) -2,5-pyrrolidinedione	Rabbit	Corrosive
D-Limonene	Rabbit	Mild irritant
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	Rabbit	No significant irritation
N-Butyl Methacrylate	Rabbit	Irritant
Naphthalene	Rabbit	Minimal irritation
Ethylbenzene	Rabbit	Mild irritant
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate	Rabbit	Minimal irritation
Cumene	Rabbit	Minimal irritation
Toluene	Rabbit	Irritant
Glycolic acid, butyl ester	Rabbit	No significant irritation
Nickel salts of naphthenic acids	Professio	Minimal irritation
	nal	
	judgeme	
	nt	

Serious Eye Damage/Irritation

Name	Species	Value
Harry and the selection of the Control of the Contr	Rabbit	Mild irritant
Heavy aromatic solvent naphtha (Petroleum)		
Pine oil	Rabbit	Moderate irritant
Cyclohexanone	In vitro	Corrosive
	data	
1-Methoxy-2-propyl acetate	Rabbit	Mild irritant
Light aromatic solvent naphtha (Petroleum)	Rabbit	Mild irritant
Vinyl polymer (NJ TSR # 04499600-5238P)	Professio	No significant irritation
	nal	
	judgeme	
	nt	
Organic pigment (New Jersey Trade Secret Registry # 04499600-5836P)	Rabbit	No significant irritation
1,2,4-Trimethylbenzene	Rabbit	Mild irritant
Xylene	Rabbit	Mild irritant
2,6-Dimethyl-4-heptanone	Rabbit	No significant irritation
2,3,4,5-Tetrachloro-6-cyanobenzoic acid, methyl ester, reaction products with 2-methyl-1,3-benzenediamine and sodium methoxide	Rabbit	No significant irritation
3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl) -2,5-pyrrolidinedione	Rabbit	Corrosive
D-Limonene	Rabbit	Mild irritant
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	Rabbit	No significant irritation
N-Butyl Methacrylate	Rabbit	Mild irritant
Naphthalene	Rabbit	No significant irritation
Ethylbenzene	Rabbit	Moderate irritant
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate	Rabbit	Mild irritant
Cumene	Rabbit	Mild irritant
Toluene	Rabbit	Moderate irritant

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Glycolic acid, butyl ester	Rabbit	Corrosive
Nickel salts of naphthenic acids	Professio	Mild irritant
	nal	
	judgeme	
	nt	

Skin Sensitization

Name	Species	Value
Heavy aromatic solvent naphtha (Petroleum)	Guinea	Not classified
Tien , a commit content implicit (1 en ordan)	pig	10001100
Pine oil	Human	Not classified
	and	
	animal	
Cyclohexanone	Guinea	Not classified
	pig	
1-Methoxy-2-propyl acetate	Guinea	Not classified
	pig	
Light aromatic solvent naphtha (Petroleum)	Guinea	Not classified
	pig	
Organic pigment (New Jersey Trade Secret Registry # 04499600-5836P)	Mouse	Not classified
1,2,4-Trimethylbenzene	Guinea	Not classified
	pig	
2,6-Dimethyl-4-heptanone	Guinea	Not classified
	pig	
2,3,4,5-Tetrachloro-6-cyanobenzoic acid, methyl ester, reaction products with 2-	Mouse	Not classified
methyl-1,3-benzenediamine and sodium methoxide		
D-Limonene	Mouse	Sensitizing
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	similar	Sensitizing
•	compoun	
	ds	
N-Butyl Methacrylate	Guinea	Sensitizing
	pig	
Ethylbenzene	Human	Not classified
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate	Guinea	Sensitizing
	pig	
Cumene	Guinea	Not classified
	pig	
Toluene	Guinea	Not classified
	pig	
Glycolic acid, butyl ester	Guinea	Not classified
· · · · · · · · · · · · · · · · · · ·	pig	
Nickel salts of naphthenic acids	similar	Sensitizing
	compoun	
	ds	

Respiratory Sensitization

Name	Species	Value
Nickel salts of naphthenic acids	Professio nal	Sensitizing
	judgeme nt	

Germ Cell Mutagenicity

Name	Route	Value
Heavy aromatic solvent naphtha (Petroleum)	In Vitro	Not mutagenic
Heavy aromatic solvent naphtha (Petroleum)	In vivo	Not mutagenic
Pine oil	In Vitro	Not mutagenic
Cyclohexanone	In vivo	Not mutagenic
Cyclohexanone	In Vitro	Some positive data exist, but the data are not sufficient for classification
1-Methoxy-2-propyl acetate	In Vitro	Not mutagenic
Organic pigment (New Jersey Trade Secret Registry # 04499600-5836P)	In Vitro	Not mutagenic

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1,2,4-Trimethylbenzene	In Vitro	Not mutagenic
Xylene	In Vitro	Not mutagenic
Xylene	In vivo	Not mutagenic
2,6-Dimethyl-4-heptanone	In Vitro	Not mutagenic
2,3,4,5-Tetrachloro-6-cyanobenzoic acid, methyl ester, reaction products with	In Vitro	Not mutagenic
2-methyl-1,3-benzenediamine and sodium methoxide		
3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl) -2,5-pyrrolidinedione	In Vitro	Not mutagenic
D-Limonene	In Vitro	Not mutagenic
D-Limonene	In vivo	Not mutagenic
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	In Vitro	Not mutagenic
N-Butyl Methacrylate	In Vitro	Not mutagenic
N-Butyl Methacrylate	In vivo	Not mutagenic
Ethylbenzene	In vivo	Not mutagenic
Ethylbenzene	In Vitro	Some positive data exist, but the data are not
		sufficient for classification
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate	In vivo	Not mutagenic
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate	In Vitro	Some positive data exist, but the data are not
		sufficient for classification
Cumene	In Vitro	Not mutagenic
Cumene	In vivo	Not mutagenic
Toluene	In Vitro	Not mutagenic
Toluene	In vivo	Not mutagenic
Nickel salts of naphthenic acids	In Vitro	Some positive data exist, but the data are not
		sufficient for classification
Nickel salts of naphthenic acids	In vivo	Mutagenic

Carcinogenicity

Name	Route	Species	Value
Cyclohexanone	Ingestion	Multiple	Some positive data exist, but the data are not
		animal	sufficient for classification
		species	
Light aromatic solvent naphtha (Petroleum)	Inhalation	Mouse	Some positive data exist, but the data are not
			sufficient for classification
Xylene	Dermal	Rat	Not carcinogenic
Xylene	Ingestion	Multiple	Not carcinogenic
		animal	
		species	
Xylene	Inhalation	Human	Some positive data exist, but the data are not
			sufficient for classification
D-Limonene	Ingestion	Rat	Some positive data exist, but the data are not
			sufficient for classification
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	Not	similar	Carcinogenic
	Specified	compoun	
		ds	
N-Butyl Methacrylate	Inhalation	Multiple	Carcinogenic
		animal	
		species	
Naphthalene	Inhalation	Multiple	Carcinogenic
		animal	
		species	
Ethylbenzene	Inhalation	Multiple	Carcinogenic
		animal	
		species	
(3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate	Dermal	Mouse	Not carcinogenic
Cumene	Inhalation	Multiple	Carcinogenic
		animal	
		species	
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
Nickel salts of naphthenic acids	Inhalation	similar	Carcinogenic
		compoun	
		ds	

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Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Heavy aromatic solvent naphtha (Petroleum)	Not Specified	Not classified for female reproduction	Rat	NOAEL Not available	2 generation
Heavy aromatic solvent naphtha (Petroleum)	Not Specified	Not classified for male reproduction	Rat	NOAEL Not available	2 generation
Heavy aromatic solvent naphtha (Petroleum)	Not Specified	Not classified for development	Rat	NOAEL Not available	2 generation
Pine oil	Ingestion	Not classified for development	Rat	NOAEL 600 mg/kg/day	during gestation
Pine oil	Ingestion	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	premating into lactation
Pine oil	Ingestion	Not classified for male reproduction	Rat	NOAEL 250 mg/kg/day	5 weeks
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 organogenesi s
Cyclohexanone	Inhalation	Not classified for development	Rat	NOAEL 2 mg/l	2 generation
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 organogenesi s
Light aromatic solvent naphtha (Petroleum)	Inhalation	Not classified for female reproduction	Rat	NOAEL 1,500 ppm	2 generation
Light aromatic solvent naphtha (Petroleum)	Inhalation	Not classified for male reproduction	Rat	NOAEL 1,500 ppm	2 generation
Light aromatic solvent naphtha (Petroleum)	Inhalation	Not classified for development	Rat	NOAEL 500 ppm	2 generation
Organic pigment (New Jersey Trade Secret Registry # 04499600-5836P)	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Organic pigment (New Jersey Trade Secret Registry # 04499600-5836P)	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	28 days
Organic pigment (New Jersey Trade Secret Registry # 04499600-5836P)	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
1,2,4-Trimethylbenzene	Inhalation	Not classified for female reproduction	Rat	NOAEL 1.2 mg/l	3 months
1,2,4-Trimethylbenzene	Inhalation	Not classified for male reproduction	Rat	NOAEL 1.2 mg/l	3 months
1,2,4-Trimethylbenzene	Inhalation	Not classified for development	Rat	NOAEL 1.5 mg/l	during gestation
Xylene	Inhalation	Not classified for female reproduction	Human	NOAEL Not available	occupational exposure
Xylene	Ingestion	Not classified for development	Mouse	NOAEL Not available	during organogenesi s
Xylene	Inhalation	Not classified for development	Multiple animal species	NOAEL Not available	during gestation
2,6-Dimethyl-4-heptanone	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000	premating &

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				mg/kg	during gestation
2,6-Dimethyl-4-heptanone	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	2 weeks
2,6-Dimethyl-4-heptanone	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
D-Limonene	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	premating & during gestation
D-Limonene	Ingestion	Not classified for development	Multiple animal species	NOAEL 591 mg/kg/day	during organogenesi s
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)- pyrimidinetrione complexes	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during gestation
N-Butyl Methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	44 days
N-Butyl Methacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 300 mg/kg/day	premating & during gestation
N-Butyl Methacrylate	Ingestion	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during gestation
N-Butyl Methacrylate	Inhalation	Not classified for development	Rat	NOAEL 1.8 mg/l	during gestation
Ethylbenzene	Inhalation	Not classified for development	Rat	NOAEL 4.3 mg/l	premating & during gestation
(3',4'-Epoxycyclohexylmethyl) 3,4- epoxycyclohexanecarboxylate	Ingestion	Not classified for development	Rat	NOAEL 125 mg/kg/day	during gestation
Cumene	Inhalation	Not classified for development	Rabbit	NOAEL 11.3 mg/l	during organogenesi s
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
Glycolic acid, butyl ester	Ingestion	Toxic to development	Rat	NOAEL 250 mg/kg/day	during organogenesi s
Nickel salts of naphthenic acids	Ingestion	Toxic to development	similar compoun ds	NOAEL not available	2 generation

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
Heavy aromatic solvent	Inhalation	central nervous	May cause drowsiness or	Human	NOAEL Not	
naphtha (Petroleum)		system depression	dizziness	and	available	
				animal		
Pine oil	Inhalation	respiratory irritation	Some positive data exist, but the	similar	NOAEL not	
			data are not sufficient for	health	available	
			classification	hazards		
Cyclohexanone	Inhalation	central nervous	May cause drowsiness or	Guinea	LOAEL 16.1	6 hours
		system depression	dizziness	pig	mg/l	

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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	Professio nal judgeme nt	NOAEL Not available	
1-Methoxy-2-propyl acetate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
1-Methoxy-2-propyl acetate	Ingestion	central nervous system depression	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL not available	
Light aromatic solvent naphtha (Petroleum)	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	
Light 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	
Light aromatic solvent naphtha (Petroleum)	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	
1,2,4-Trimethylbenzene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
1,2,4-Trimethylbenzene	Inhalation	respiratory irritation	May cause respiratory irritation	official classifica tion	NOAEL Not available	
1,2,4-Trimethylbenzene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	
Xylene	Inhalation	auditory system	Causes damage to organs	Rat	LOAEL 6.3 mg/l	8 hours
Xylene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Xylene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Xylene	Inhalation	eyes	Not classified	Rat	NOAEL 3.5 mg/l	not available
Xylene	Inhalation	liver	Not classified	Multiple animal species	NOAEL Not available	
Xylene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	
Xylene	Ingestion	eyes	Not classified	Rat	NOAEL 250 mg/kg	not applicable
2,6-Dimethyl-4-heptanone	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Rat	NOAEL Not available	
2,6-Dimethyl-4-heptanone	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	
3-Dodecyl-1-(2,2,6,6- tetramethyl-4-piperidinyl) - 2,5-pyrrolidinedione	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
D-Limonene	Ingestion	nervous system	Not classified		NOAEL Not available	
N-Butyl Methacrylate	Inhalation	respiratory irritation	May cause respiratory irritation		NOAEL Not available	
Naphthalene	Ingestion	blood	Causes damage to organs	Human	NOAEL Not available	poisoning and/or abuse
Ethylbenzene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	

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Ethylbenzene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human and animal	NOAEL Not available	
Cumene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	not available
Cumene	Inhalation	respiratory irritation	May cause respiratory irritation	Human	LOAEL 0.2 mg/l	occupational exposure
Cumene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	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
Glycolic acid, butyl ester	Inhalation	respiratory irritation	May cause respiratory irritation	Rat	NOAEL 0.4 mg/l	4 hours

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Pine oil	Inhalation	hematopoietic system eyes respiratory system	Not classified	Rat	NOAEL 2.23 mg/l	13 weeks
Pine oil	Ingestion	liver kidney and/or bladder heart skin endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system immune system muscles nervous system respiratory system	Not classified	Rat	NOAEL 750 mg/kg/day	5 weeks
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
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
Organic pigment (New Jersey Trade Secret Registry # 04499600- 5836P)	Ingestion	heart endocrine system gastrointestinal tract hematopoietic system liver immune system nervous system kidney and/or bladder respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
1,2,4-Trimethylbenzene	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for	Rat	NOAEL 0.5 mg/l	3 months

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			classification			
1,2,4-Trimethylbenzene	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.1 mg/l	3 months
1,2,4-Trimethylbenzene	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
1,2,4-Trimethylbenzene	Inhalation	liver kidney and/or bladder heart endocrine system gastrointestinal tract immune system	Not classified	Rat	NOAEL 1.2 mg/l	3 months
1,2,4-Trimethylbenzene	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 600 mg/kg/day	14 days
1,2,4-Trimethylbenzene	Ingestion	liver immune system kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 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
2,6-Dimethyl-4-heptanone	Inhalation	liver kidney and/or bladder respiratory system	Not classified	Rat	NOAEL 5.4 mg/l	6 weeks
2,6-Dimethyl-4-heptanone	Inhalation	blood	Not classified	Rat	NOAEL 5.3 mg/l	9 days
2,6-Dimethyl-4-heptanone	Inhalation	endocrine system hematopoietic system	Not classified	Rat	NOAEL 9.6 mg/l	6 weeks
2,6-Dimethyl-4-heptanone	Ingestion	heart endocrine system liver nervous system	Not classified	Rat	NOAEL 2,000 mg/kg/day	90 days
2,6-Dimethyl-4-heptanone	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 2,000 mg/kg	90 days
2,6-Dimethyl-4-heptanone	Ingestion	blood	Not classified	Rat	NOAEL 4,000 mg/kg/day	3 weeks
D-Limonene	Ingestion	kidney and/or bladder	Not classified	Rat	LOAEL 75 mg/kg/day	103 weeks

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D-Limonene	Ingestion	liver	Not classified	Mouse	NOAEL 1,000 mg/kg/day	103 weeks
D-Limonene	Ingestion	heart endocrine system bone, teeth, nails, and/or hair hematopoietic system immune system muscles nervous system respiratory system	Not classified	Rat	NOAEL 600 mg/kg/day	103 weeks
Nickel, 5,5'-azobis- 2,4,6(1H,3H,5H)- pyrimidinetrione complexes	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
N-Butyl Methacrylate	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 11 mg/l	28 days
N-Butyl Methacrylate	Inhalation	olfactory system	Not classified	Rat	NOAEL 1.8 mg/l	28 days
N-Butyl Methacrylate	Inhalation	heart endocrine system hematopoietic system liver nervous system respiratory system	Not classified	Rat	NOAEL 11 mg/l	28 days
N-Butyl Methacrylate	Ingestion	olfactory system	Not classified	Rat	NOAEL 60 mg/kg/day	90 days
N-Butyl Methacrylate	Ingestion	endocrine system hematopoietic system liver nervous system kidney and/or bladder heart immune system	Not classified	Rat	NOAEL 360 mg/kg/day	90 days
Naphthalene	Dermal	blood	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
Naphthalene	Dermal	eyes	Not classified	Human	NOAEL Not available	occupational exposure
Naphthalene	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.01 mg/l	13 weeks
Naphthalene	Inhalation	blood	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
Naphthalene	Inhalation	eyes	Not classified	Human	NOAEL Not available	occupational exposure
Naphthalene	Ingestion	blood	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
Naphthalene	Ingestion	eyes	May cause damage to organs though prolonged or repeated exposure	Rabbit	LOAEL 500 mg/kg/day	15 days
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	Not classified	Multiple animal	NOAEL 3.3 mg/l	2 years

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	<u> </u>	system		species	1	1
Ethylbenzene	Ingestion	liver kidney and/or bladder	Not classified	Rat	NOAEL 680 mg/kg/day	6 months
(3',4'- Epoxycyclohexylmethyl) 3,4- epoxycyclohexanecarboxyl	Ingestion	olfactory system	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 5 mg/kg/day	90 days
ate (3',4'- Epoxycyclohexylmethyl) 3,4- epoxycyclohexanecarboxyl ate	Ingestion	liver kidney and/or bladder hematopoietic system	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
(3',4'- Epoxycyclohexylmethyl) 3,4- epoxycyclohexanecarboxyl ate	Ingestion	endocrine system respiratory system	Not classified	Rat	NOAEL 1,113 mg/kg/day	14 days
Cumene	Inhalation	auditory system endocrine system hematopoietic system liver nervous system eyes	Not classified	Rat	NOAEL 59 mg/l	13 weeks
Cumene	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 4.9 mg/l	13 weeks
Cumene	Inhalation	respiratory system	Not classified	Rat	NOAEL 59 mg/l	13 weeks
Cumene	Ingestion	kidney and/or bladder heart endocrine system hematopoietic system liver respiratory system	Not classified	Rat	NOAEL 769 mg/kg/day	6 months
Toluene	Inhalation	auditory system eyes olfactory system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
Toluene	Inhalation	nervous system	May cause damage to organs though prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
Toluene	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 2.3 mg/l	15 months
Toluene	Inhalation	heart liver kidney and/or bladder	Not classified	Rat	NOAEL 11.3 mg/l	15 weeks
Toluene	Inhalation	endocrine system	Not classified	Rat	NOAEL 1.1 mg/l	4 weeks
Toluene	Inhalation	immune system	Not classified	Mouse	NOAEL Not available	20 days
Toluene	Inhalation	bone, teeth, nails, and/or hair	Not classified	Mouse	NOAEL 1.1 mg/l	8 weeks
Toluene	Inhalation	hematopoietic system vascular system	Not classified	Human	NOAEL Not available	occupational exposure
Toluene	Inhalation	gastrointestinal tract	Not classified	Multiple animal species	NOAEL 11.3 mg/l	15 weeks
Toluene	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 625 mg/kg/day	13 weeks
Toluene	Ingestion	heart	Not classified	Rat	NOAEL 2,500 mg/kg/day	13 weeks
Toluene	Ingestion	liver kidney and/or bladder	Not classified	Multiple animal species	NOAEL 2,500 mg/kg/day	13 weeks
Toluene	Ingestion	hematopoietic system	Not classified	Mouse	NOAEL 600 mg/kg/day	14 days

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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
Glycolic acid, butyl ester	Ingestion	blood kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 100 mg/kg/day	90 days
Nickel salts of naphthenic acids	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	similar compoun ds	NOAEL not available	13 weeks

Aspiration Hazard

110011111111111111111111111111111111111	
Name	Value
Heavy aromatic solvent naphtha (Petroleum)	Aspiration hazard
Light aromatic solvent naphtha (Petroleum)	Aspiration hazard
1,2,4-Trimethylbenzene	Aspiration hazard
Xylene	Aspiration hazard
2,6-Dimethyl-4-heptanone	Some positive data exist, but the data are not sufficient for
	classification
D-Limonene	Aspiration hazard
Ethylbenzene	Aspiration hazard
Cumene	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

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Incinerate in a permitted waste incineration facility. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. As a disposal alternative, utilize an acceptable permitted waste disposal facility. 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.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

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15.1. US Federal Regulations

Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

Physical Hazards
Flammable (gases, aerosols, liquids, or solids)

Health Hazards Carcinogenicity Reproductive toxicity Respiratory or Skin Sensitization Serious eye damage or eye irritation Skin Corrosion or Irritation Specific target organ toxicity (single or repeated exposure)

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

<u>Ingredient</u>	C.A.S. No	% by Wt
1,2,4-Trimethylbenzene	95-63-6	Trade Secret 1 - 5
Xylene (Benzene, dimethyl-)	1330-20-7	Trade Secret 0.1 - 1
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione	68511-62-6	Trade Secret < 0.4
complexes (NICKEL COMPOUNDS)		
Naphthalene	91-20-3	Trade Secret < 0.3
Ethylbenzene	100-41-4	Trade Secret < 0.3
Cumene	98-82-8	Trade Secret < 0.2
Nickel salts of naphthenic acids (NICKEL	61788-71-4	Trade Secret < 0.02
COMPOUNDS)		

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification

Health: 3 Flammability: 2 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

 Document Group:
 20-9778-0
 Version Number:
 10.00

 Issue Date:
 09/08/23
 Supercedes Date:
 01/25/22

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