

Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3MTM Process Color 880I Series Special Color CF0880I-245 Brown

Product Identification Numbers 75-0302-6320-8

1.2. Recommended use and restrictions on use

Recommended use Ink

| 1.3. Supplier's details | |
|-------------------------|---|
| MANUFACTURER: | 3M |
| DIVISION: | Traffic Safety and Security 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 2A. Skin Sensitizer: Category 1. Reproductive Toxicity: Category 1B. Carcinogenicity: Category 1A.

2.2. Label elements Signal word Danger

Symbols Flame | Exclamation mark | Health Hazard |

Pictograms



Hazard Statements Flammable liquid and vapor.

Causes serious eye irritation. May cause an allergic skin reaction. 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. 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 skin irritation or rash occurs: Get medical advice/attention.

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

If eye irritation persists: Get medical advice/attention.

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

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 cool. Store locked up.

Disposal:

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

2.3. Hazards not otherwise classified

None.

47% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|---------------|--------------------------|
| Dipropylene glycol methyl ether acetate | 88917-22-0 | 30 - 60 |
| Butyl methacrylate-methyl methacrylate polymer | 25608-33-7 | 15 - 40 Trade Secret * |
| Cyclohexanone | 108-94-1 | 5 - 10 Trade Secret * |
| 1-Methoxy-2-propyl acetate | 108-65-6 | 5 - 10 |
| Vinyl polymer (New Jersey Trade Secret Registry # 04499600-5238P) | Trade Secret* | 1 - 5 |
| Organic pigment (New Jersey Trade Secret Registry # 04499600-5229P) | Trade Secret* | 0.5 - 1.5 |
| Carbon black (nano) | 1333-86-4 | 0.1 - 1.0 Trade Secret * |
| Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes | 68511-62-6 | 0.1 - 1.0 Trade Secret * |
| 3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidinyl) -2,5- pyrrolidinedione | 79720-19-7 | 0.1 - 1.0 |
| Toluene | 108-88-3 | < 0.3 Trade Secret * |
| Ethylbenzene | 100-41-4 | < 0.3 Trade Secret * |
| (3',4'-Epoxycyclohexylmethyl) 3,4- | 2386-87-0 | < 0.2 Trade Secret * |
| epoxycyclohexanecarboxylate | | |
| Stoddard solvent | 8052-41-3 | < 0.2 Trade Secret * |
| N-Butyl methacrylate | 97-88-1 | < 0.2 Trade Secret * |

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

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. Remove contact lenses if easy to do. Continue rinsing. 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. Suitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

| Condition |
|-------------------|
| During Combustion |
| During Combustion |
| During Combustion |
| |

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

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 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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial or professional use only. 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. |
| Ethylbenzene | 100-41-4 | CMRG | TWA:25 ppm;STEL:75 ppm | |
| Ethylbenzene | 100-41-4 | OSHA | TWA:435 mg/m3(100 ppm) | |
| 1-Methoxy-2-propyl acetate | 108-65-6 | AIHA | TWA:50 ppm | |
| 1-Methoxy-2-propyl acetate | 108-65-6 | CMRG | TWA:10 mg/m3;STEL:90 | |
| | | | ppm | |
| Toluene | 108-88-3 | ACGIH | TWA:20 ppm | A4: Not class. as human |
| | | | | carcin |
| Toluene | 108-88-3 | CMRG | STEL:75 ppm | Skin Notation |
| 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., Skin Notation |
| Cyclohexanone | 108-94-1 | OSHA | TWA:200 mg/m3(50 ppm) | |
| Carbon black (nano) | 1333-86-4 | ACGIH | TWA(inhalable fraction):3 | A3: Confirmed animal |
| | | | mg/m3 | carcin. |
| Carbon black (nano) | 1333-86-4 | CMRG | TWA:0.5 mg/m3 | |
| Carbon black (nano) | 1333-86-4 | OSHA | TWA:3.5 mg/m3 | |
| NICKEL, INSOLUBLE | 68511-62-6 | OSHA | TWA(as Ni):1 mg/m3 | |
| COMPOUNDS | | | | |
| Stoddard solvent | 8052-41-3 | ACGIH | TWA:100 ppm | |
| Stoddard solvent | 8052-41-3 | OSHA | TWA:2900 mg/m3(500 ppm) | |
| Dipropylene glycol methyl ether | 88917-22-0 | Manufacturer | TWA:100 ppm;STEL:150 ppm | Skin Notation |
| acetate | | determined | | |
| N-Butyl methacrylate | 97-88-1 | CMRG | TWA:50 ppm;STEL:75 ppm | |

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

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: 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 **General Physical Form:** Liquid **Odor, Color, Grade:** sweet solvent-like odor, brown in color, liquid **Odor threshold** No Data Available Not Applicable pН Not Applicable Melting point **Boiling Point** $>=281 \,{}^{\circ}\text{F}$ **Flash Point** 108.00 °F [Test Method: Tagliabue Closed Cup] <=0.04 [*Ref Std:* BUOAC=1] **Evaporation rate** Not Applicable Flammability (solid, gas) 1 % volume Flammable Limits(LEL) 12.75 % volume Flammable Limits(UEL) Vapor Pressure <=5.1 mmHg [@ 20 °C] Vapor Density No Data Available Density 1.02 g/ml **Specific Gravity** 1.02 [*Ref Std:* WATER=1] No Data Available Solubility In Water Solubility- non-water No Data Available Partition coefficient: n-octanol/ water No Data Available **Autoignition temperature** No Data Available No Data Available **Decomposition temperature** Viscosity 1,000 - 1,200 centipoise Approximately 638 g/l [Details: CONDITIONS: As packaged] **Volatile Organic Compounds** Percent volatile 60 - 70 % weight **VOC Less H2O & Exempt Solvents** No Data Available

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions Hazardous polymerization will not occur.

10.4. Conditions to avoid Sparks and/or flames

10.5. Incompatible materials Strong acids Strong oxidizing agents

10.6. Hazardous decomposition products <u>Substance</u> None known.

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:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause additional health effects (see below).

Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:

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

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause additional health effects (see below).

Additional Health Effects:

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

| Ingredient | CAS No. | Class Description | Regulation |
|---------------------|------------|--------------------------------|---|
| NI CMPDS NOT ALLOYS | 68511-62-6 | Known human carcinogen | National Toxicology Program Carcinogens |
| NICKEL COMPOUNDS | 68511-62-6 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| Carbon black (nano) | 1333-86-4 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Ethylbenzene | 100-41-4 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

| Name | Route | Species | Value |
|---|---------------------------------------|---------|---|
| Overall product | Dermal | | No data available; calculated ATE > 5,000 mg/kg |
| Overall product | Inhalation- Vapor(4 hr) | | No data available; calculated ATE > 50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE > 5,000 mg/kg |
| Dipropylene glycol methyl ether acetate | Dermal | Rat | LD50 > 2,000 mg/kg |
| Dipropylene glycol methyl ether acetate | Inhalation- Dust/Mist (4 hours) | Rat | LC50 > 5.7 mg/l |
| Dipropylene glycol methyl ether acetate | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Butyl methacrylate-methyl methacrylate polymer | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| Butyl methacrylate-methyl methacrylate polymer | Ingestion | Rat | LD50 > 5,000 mg/kg |
| 1-Methoxy-2-propyl acetate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| 1-Methoxy-2-propyl acetate | Inhalation- Vapor (4 hours) | Rat | LC50 > 28.8 mg/l |
| 1-Methoxy-2-propyl acetate | Ingestion | Rat | LD50 8,532 mg/kg |
| Cyclohexanone | Dermal | Rabbit | LD50 >794, <3160 mg/kg |
| Cyclohexanone | Inhalation- Vapor (4 hours) | Rat | LC50 > 6.2 mg/l |
| Cyclohexanone | Ingestion | Rat | LD50 1,296 mg/kg |
| Vinyl polymer (New Jersey Trade Secret Registry # 04499600- 5238P) | Dermal | Rabbit | LD50 > 8,000 mg/kg |
| Vinyl polymer (New Jersey Trade Secret Registry # 04499600- 5238P) | Ingestion | Rat | LD50 > 8,000 mg/kg |
| Organic pigment (New Jersey Trade Secret Registry # 04499600- 5229P) | Dermal | Rat | LD50 > 2,000 mg/kg |
| Organic pigment (New Jersey Trade Secret Registry # 04499600- 5229P) | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes | Ingestion | Rat | LD50 5,000 mg/kg |
| Carbon black (nano) | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| Carbon black (nano) | Ingestion | Rat | LD50 > 8,000 mg/kg |
| Toluene | Dermal | Rat | LD50 12,000 mg/kg |
| Toluene | Inhalation- Vapor (4 hours) | Rat | LC50 30 mg/l |
| Toluene | Ingestion | Rat | LD50 5,550 mg/kg |
| Ethylbenzene | Dermal | Rabbit | LD50 15,433 mg/kg |
| Ethylbenzene | Inhalation- Vapor (4 hours) | Rat | LC50 17.4 mg/l |
| Ethylbenzene | Ingestion | Rat | LD50 4,769 mg/kg |
| N-Butyl methacrylate | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| N-Butyl methacrylate | Inhalation- Dust/Mist (4 hours) | Rat | LC50 > 27 mg/l |

| N-Butyl methacrylate | Ingestion | Rat | LD50 > 2,000 mg/kg |
|---|-------------|--------|-----------------------------------|
| Stoddard solvent | Inhalation- | | LC50 estimated to be 20 - 50 mg/l |
| | Vapor | | |
| Stoddard solvent | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| Stoddard solvent | Ingestion | Rat | LD50 > 5,000 mg/kg |
| (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate | Dermal | Rabbit | LD50 > 23,400 mg/kg |
| (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate | Ingestion | Rat | LD50 5,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|-----------|---------------------------|
| Dipropylene glycol methyl ether acetate | Rabbit | No significant irritation |
| Butyl methacrylate-methyl methacrylate polymer | Rabbit | Minimal irritation |
| 1-Methoxy-2-propyl acetate | Rabbit | No significant irritation |
| Cyclohexanone | Rabbit | Irritant |
| Vinyl polymer (New Jersey Trade Secret Registry # 04499600-5238P) | Professio | No significant irritation |
| | nal | |
| | judgeme | |
| | nt | |
| Organic pigment (New Jersey Trade Secret Registry # 04499600-5229P) | Rabbit | No significant irritation |
| Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes | Rabbit | No significant irritation |
| Carbon black (nano) | Rabbit | No significant irritation |
| Toluene | Rabbit | Irritant |
| Ethylbenzene | Rabbit | Mild irritant |
| N-Butyl methacrylate | Rabbit | Irritant |
| Stoddard solvent | Rabbit | Irritant |
| (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate | Rabbit | Minimal irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|-----------|---------------------------|
| | | |
| Dipropylene glycol methyl ether acetate | Rabbit | No significant irritation |
| Butyl methacrylate-methyl methacrylate polymer | Rabbit | Moderate irritant |
| 1-Methoxy-2-propyl acetate | Rabbit | Mild irritant |
| Cyclohexanone | Rabbit | Severe irritant |
| Vinyl polymer (New Jersey Trade Secret Registry # 04499600-5238P) | Professio | No significant irritation |
| | nal | |
| | judgeme | |
| | nt | |
| Organic pigment (New Jersey Trade Secret Registry # 04499600-5229P) | Rabbit | No significant irritation |
| Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes | Rabbit | No significant irritation |
| Carbon black (nano) | Rabbit | No significant irritation |
| Toluene | Rabbit | Moderate irritant |
| Ethylbenzene | Rabbit | Moderate irritant |
| N-Butyl methacrylate | Rabbit | Mild irritant |
| Stoddard solvent | Rabbit | No significant irritation |
| (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate | Rabbit | Mild irritant |

Skin Sensitization

| Name | Species | Value |
|---|---------|-----------------|
| Dipropylene glycol methyl ether acetate | Guinea | Not sensitizing |
| | pig | |
| 1-Methoxy-2-propyl acetate | Guinea | Not sensitizing |
| | pig | |
| Cyclohexanone | Guinea | Not sensitizing |
| | pig | |
| Organic pigment (New Jersey Trade Secret Registry # 04499600-5229P) | Guinea | Not sensitizing |
| | pig | |
| Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes | similar | Sensitizing |
| | compoun | |
| | ds | |
| Toluene | Guinea | Not sensitizing |
| | pig | |
| Ethylbenzene | Human | Not sensitizing |

| N-Butyl methacrylate | Guinea | Sensitizing |
|---|--------|-----------------|
| | pig | |
| Stoddard solvent | Guinea | Not sensitizing |
| | pig | |
| (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate | Guinea | Sensitizing |
| | pig | |

Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

| Name | Route | Value |
|---|----------|--|
| Dipropylene glycol methyl ether acetate | In Vitro | Not mutagenic |
| Dipropylene glycol methyl ether acetate | In vivo | Not mutagenic |
| 1-Methoxy-2-propyl acetate | In Vitro | Not mutagenic |
| Cyclohexanone | In vivo | Not mutagenic |
| Cyclohexanone | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Organic pigment (New Jersey Trade Secret Registry # 04499600-5229P) | In Vitro | Not mutagenic |
| Carbon black (nano) | In Vitro | Not mutagenic |
| Carbon black (nano) | In vivo | Some positive data exist, but the data are not sufficient for classification |
| Toluene | In Vitro | Not mutagenic |
| Toluene | In vivo | Not mutagenic |
| Ethylbenzene | In vivo | Not mutagenic |
| Ethylbenzene | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| N-Butyl methacrylate | In Vitro | Not mutagenic |
| N-Butyl methacrylate | In vivo | Not mutagenic |
| Stoddard solvent | In vivo | Not mutagenic |
| Stoddard solvent | 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 |

Carcinogenicity

| Name | Route | Species | Value |
|--|------------|----------|--|
| Cyclohexanone | Ingestion | Multiple | Some positive data exist, but the data are not |
| | | animal | sufficient for classification |
| | | species | |
| Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes | Not | similar | Carcinogenic |
| | Specified | compou | |
| | | nds | |
| Carbon black (nano) | Dermal | Mouse | Not carcinogenic |
| Carbon black (nano) | Ingestion | Mouse | Not carcinogenic |
| Carbon black (nano) | Inhalation | Rat | Carcinogenic |
| Toluene | Dermal | Mouse | Some positive data exist, but the data are not |
| | | | sufficient for classification |
| Toluene | Ingestion | Rat | Some positive data exist, but the data are not |
| | | | sufficient for classification |
| Toluene | Inhalation | Mouse | Some positive data exist, but the data are not |
| | | | sufficient for classification |
| Ethylbenzene | Inhalation | Multiple | Carcinogenic |
| | | animal | |
| | | species | |
| Stoddard solvent | Dermal | Mouse | Some positive data exist, but the data are not |
| | | | sufficient for classification |
| Stoddard solvent | Inhalation | Human | Some positive data exist, but the data are not |
| | | and | sufficient for classification |
| | | animal | |
| (3',4'-Epoxycyclohexylmethyl) 3,4-epoxycyclohexanecarboxylate | Dermal | Mouse | Not carcinogenic |

Reproductive Toxicity

| Name | Route | Value | Species | Test Result | Exposure Duration |
|---|------------|--|---------|-----------------------------|------------------------------------|
| Dipropylene glycol methyl ether acetate | Ingestion | Not toxic to male reproduction | Rat | NOAEL 1,000 mg/kg/day | 4 weeks |
| 1-Methoxy-2-propyl acetate | Ingestion | Not toxic to female reproduction | Rat | NOAEL 1,000 mg/kg/day | premating & during gestation |
| 1-Methoxy-2-propyl acetate | Ingestion | Not toxic to male reproduction | Rat | NOAEL 1,000 mg/kg/day | premating & during gestation |
| 1-Methoxy-2-propyl acetate | Ingestion | Not toxic to development | Rat | NOAEL 1,000 mg/kg/day | premating & during gestation |
| 1-Methoxy-2-propyl acetate | Inhalation | Not toxic to development | Rat | NOAEL 21.6 mg/l | during organogenesi s |
| Cyclohexanone | Inhalation | Not toxic to female reproduction | Rat | NOAEL 4 mg/l | 2 generation |
| Cyclohexanone | Inhalation | Some positive male reproductive data exist, but the data are not sufficient for classification | Rat | NOAEL 2 mg/l | 2 generation |
| Cyclohexanone | Ingestion | Some positive developmental data exist, but the data are not sufficient for classification | Mouse | LOAEL 1,100 mg/kg/day | during organogenesi s |
| Cyclohexanone | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification | Rat | NOAEL 2 mg/l | 2 generation |
| Toluene | Inhalation | Some positive female reproductive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |
| Toluene | Inhalation | Some positive male reproductive data exist, but the data are not sufficient for classification | Rat | NOAEL 2.3 mg/l | 1 generation |
| Toluene | Ingestion | Toxic to development | Rat | LOAEL 520 mg/kg/day | during gestation |
| Toluene | Inhalation | Toxic to development | Human | NOAEL Not available | poisoning and/or abuse |
| Ethylbenzene | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification | Rat | NOAEL 4.3 mg/l | premating & during gestation |
| N-Butyl methacrylate | Inhalation | Not toxic to female reproduction | Rat | NOAEL 11 mg/l | 28 days |
| N-Butyl methacrylate | Ingestion | Not toxic to male reproduction | Rat | NOAEL 1,000 mg/kg/day | 44 days |
| N-Butyl methacrylate | Inhalation | Not toxic to male reproduction | Rat | NOAEL 11 mg/l | 28 days |
| N-Butyl methacrylate | Ingestion | Some positive female reproductive data exist, but the data are not sufficient for classification | Rat | NOAEL 300 mg/kg/day | premating & during gestation |
| N-Butyl methacrylate | Ingestion | Some positive developmental data exist, but the data are not sufficient for classification | Rabbit | NOAEL 300 mg/kg/day | during gestation |
| N-Butyl methacrylate | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification | Rat | NOAEL 1.8 mg/l | during gestation |
| Stoddard solvent | Inhalation | Not toxic to development | Rat | NOAEL 2.4 mg/l | during organogenesi s |
| (3',4'-Epoxycyclohexylmethyl) 3,4- epoxycyclohexanecarboxylate | Ingestion | Not toxic to female reproduction | Rat | NOAEL 500 mg/kg/day | 90 days |
| (3',4'-Epoxycyclohexylmethyl) 3,4- epoxycyclohexanecarboxylate | Ingestion | Not toxic to male reproduction | Rat | NOAEL 500 mg/kg/day | 90 days |
| (3',4'-Epoxycyclohexylmethyl) 3,4- epoxycyclohexanecarboxylate | Ingestion | Some positive developmental data exist, but the data are not sufficient for | Rat | NOAEL 125 mg/kg/day | during gestation |

Reproductive and/or Developmental Effects

classification

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|------------|--------------------------------------|--|------------------------|------------------------|---------------------------|
| 1-Methoxy-2-propyl acetate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| Cyclohexanone | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Guinea pig | LOAEL 16.1 mg/l | 6 hours |
| Cyclohexanone | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Organic pigment (New Jersey Trade Secret Registry # 04499600- 5229P) | Dermal | skin | Some positive data exist, but the data are not sufficient for classification | Human and animal | NOAEL not available | |
| Organic pigment (New Jersey Trade Secret Registry # 04499600- 5229P) | Ingestion | central nervous system depression | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL Not available | not applicable |
| 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 | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL 0.004 mg/l | 3 hours |
| Toluene | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |
| Ethylbenzene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Ethylbenzene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human and animal | NOAEL Not available | |
| N-Butyl methacrylate | Inhalation | respiratory irritation | May cause respiratory irritation | | NOAEL Not available | |
| Stoddard solvent | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| Stoddard solvent | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| Stoddard solvent | Inhalation | nervous system | Some positive data exist, but the data are not sufficient for classification | Dog | NOAEL 6.5 mg/l | 4 hours |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|--|------------|---|--|---------|-----------------------------|----------------------|
| Dipropylene glycol methyl ether acetate | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1,000 mg/kg/day | 4 weeks |
| Dipropylene glycol methyl ether acetate | Ingestion | heart endocrine system hematopoietic system kidney and/or bladder | All data are negative | Rat | NOAEL 1,000 mg/kg/day | 4 weeks |
| 1-Methoxy-2-propyl acetate | Inhalation | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 16.2 mg/l | 9 days |
| 1-Methoxy-2-propyl acetate | Inhalation | olfactory system | Some positive data exist, but the data are not sufficient for classification | Mouse | LOAEL 1.62 mg/l | 9 days |

| Inhalation | blood | All data are negative | Multiple animal species | NOAEL 16.2 mg/l | 9 days |
|------------|--|---|--|--|---|
| Ingestion | endocrine system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1,000 mg/kg/day | 44 days |
| Inhalation | liver kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rabbit | NOAEL 0.76 mg/l | 50 days |
| Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL 4,800 mg/kg/day | 90 days |
| Inhalation | pneumoconiosis | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |
| 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 |
| Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 2.3 mg/l | 15 months |
| Inhalation | heart liver kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 11.3 mg/l | 15 weeks |
| Inhalation | endocrine system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1.1 mg/l | 4 weeks |
| Inhalation | immune system | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL Not available | 20 days |
| Inhalation | bone, teeth, nails, and/or hair | Some positive data exist, but the data are not sufficient for | Mouse | NOAEL 1.1 mg/l | 8 weeks |
| Inhalation | hematopoietic system vascular system | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |
| Ingestion | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 625 mg/kg/day | 13 weeks |
| Ingestion | heart | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 2,500 mg/kg/day | 13 weeks |
| Ingestion | liver kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL 2,500 | 13 weeks |
| Ingestion | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL 600 mg/kg/day | 14 days |
| Ingestion | endocrine system | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL 105 mg/kg/day | 28 days |
| Ingestion | immune system | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL 105 mg/kg/day | 4 weeks |
| 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 |
| Inhalation | liver | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL 1.1 mg/l | 103 weeks |
| Inhalation | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 3.4 mg/l | 28 days |
| Inhalation | auditory system | Some positive data exist, but the | Rat | NOAEL 2.4 | 5 days |
| | Ingestion Ingestion Ingestion Ingestion Ingestion Inhalation Ingestion Ingestion | Ingestionendocrine systemIngestionliver kidney and/or bladderInpestionliverIngestionliverInhalationpneumoconiosisInhalationauditory system nervous system eyes olfactory systemInhalationauditory system nervous system eyes olfactory systemInhalationneart liver kidney and/or bladderInhalationheart liver kidney and/or bladderInhalationendocrine systemInhalationbone, teeth, nails, and/or hairInhalationhematopoietic system vascular systemIngestionnervous systemIngestionnervous systemIngestionheartIngestionheartIngestionhematopoietic systemIngestionheartIngestionhematopoietic systemIngestionhematopoietic systemIngestionhematopoietic systemIngestionhematopoietic systemIngestionhematopoietic systemInhalationhematopoietic systemInhalationhematopoietic systemInhalationhematopoietic systemInhalationhematopoietic systemInhalationhematopoietic systemInhalationhematopoietic systemInhalationhematopoietic systemInhalationhematopoietic systemInhalationhematopoietic systemInhalationhematopoietic system< | Ingestion endocrine system Some positive data exist, but the data are not sufficient for classification Inhalation liver kidney and/or bladder Some positive data exist, but the data are not sufficient for classification Ingestion liver Some positive data exist, but the data are not sufficient for classification Inhalation pneumoconiosis Some positive data exist, but the data are not sufficient for classification Inhalation auditory system eyes olfactory system eyes olfactory system Some positive data exist, but the data are not sufficient for classification Inhalation near(1 liver kidney and/or bladder Some positive data exist, but the data are not sufficient for classification Inhalation near(1 liver kidney and/or bladder Some positive data exist, but the data are not sufficient for classification Inhalation nearcrine system Some positive data exist, but the data are not sufficient for classification Inhalation bone, teeth, nails, and/or hair Some positive data exist, but the data are not sufficient for classification Ingestion nervous system Some positive data exist, but the data are not sufficient for classification Inhalation hematopoietic Some positive data exist, but the data are not sufficient for classification | Ingestion endocrine system Some positive data exist, but the data are not sufficient for classification Rat Inhalation liver kidney and/or bladder Some positive data exist, but the data are not sufficient for classification Rabbit Ingestion liver Some positive data exist, but the data are not sufficient for classification Mouse Inhalation pneumoconiosis Some positive data exist, but the data are not sufficient for classification Human Inhalation auditory system nervous system nervous system classification Causes damage to organs through prolonged or repeated exposure system Human Inhalation respiratory system Some positive data exist, but the data are not sufficient for classification Rat Inhalation endocrine system Some positive data exist, but the data are not sufficient for classification Rat Inhalation endocrine system Some positive data exist, but the data are not sufficient for classification Mouse Inhalation endocrine system Some positive data exist, but the data are not sufficient for classification Mouse Inhalation bone, teeth, nails, and/or hair Some positive data exist, but the data are not sufficient for classification Rat | animal species mg/l Ingestion endocrine system Some positive data exist, but the data are not sufficient for classification Rat NOAEL 1,000 Inhalation liver kidney and/or bladder Some positive data exist, but the data are not sufficient for classification Rabbit NOAEL 4,800 Ingestion liver Some positive data exist, but the data are not sufficient for classification Mouse NOAEL 4,800 Inhalation pneumoconiosis Some positive data exist, but the data are not sufficient for classification Human NOAEL Not available Inhalation auditory system cyces olfactory system Conse costive data exist, but the data are not sufficient for classification Rat NOAEL Not available Inhalation heart liver kidney and/or bladder Some positive data exist, but the data are not sufficient for classification Rat NOAEL Not available Inhalation endocrine system Some positive data exist, but the data are not sufficient for classification Mouse NOAEL Not available Inhalation bene, teeth, nails, and/or blader Some positive data exist, but the data are not sufficient for classification Mouse NOAEL Not available Inhalation hematopoi |

| | | | data are not sufficient for classification | | mg/l | |
|---|------------|--|--|-------------------------------|-----------------------------|----------|
| Ethylbenzene | Inhalation | bone, teeth, nails, and/or hair muscles | All data are negative | Multiple animal species | NOAEL 4.2 mg/l | 90 days |
| Ethylbenzene | Inhalation | heart immune system respiratory system | All data are negative | Multiple animal species | NOAEL 3.3 mg/l | 2 years |
| Ethylbenzene | Ingestion | liver kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 680 mg/kg/day | 6 months |
| N-Butyl methacrylate | Inhalation | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 11 mg/l | 28 days |
| N-Butyl methacrylate | Inhalation | olfactory system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1.8 mg/l | 28 days |
| N-Butyl methacrylate | Inhalation | heart endocrine system hematopoietic system liver nervous system respiratory system | All data are negative | Rat | NOAEL 11 mg/l | 28 days |
| N-Butyl methacrylate | Ingestion | olfactory system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 60 mg/kg/day | 90 days |
| N-Butyl methacrylate | Ingestion | endocrine system hematopoietic system liver nervous system kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 360 mg/kg/day | 90 days |
| N-Butyl methacrylate | Ingestion | heart immune system | All data are negative | Rat | NOAEL 360 mg/kg/day | 90 days |
| Stoddard solvent | Inhalation | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 4.6 mg/l | 6 months |
| Stoddard solvent | Inhalation | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 1.9 mg/l | 13 weeks |
| Stoddard solvent | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL 0.6 mg/l | 90 days |
| Stoddard solvent | Inhalation | bone, teeth, nails, and/or hair blood liver muscles | All data are negative | Rat | NOAEL 5.6 mg/l | 12 weeks |
| Stoddard solvent | Inhalation | heart | All data are negative | Multiple animal species | NOAEL 1.3 mg/l | 90 days |
| (3',4'- Epoxycyclohexylmethyl) 3,4- epoxycyclohexanecarboxyl ate | Ingestion | olfactory system | May cause damage to organs though prolonged or repeated exposure | Rat | NOAEL 5 mg/kg/day | 90 days |
| (3',4'- Epoxycyclohexylmethyl) 3,4- epoxycyclohexanecarboxyl ate | Ingestion | liver kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 500 mg/kg/day | 90 days |
| (3',4'- Epoxycyclohexylmethyl) 3,4- epoxycyclohexanecarboxyl | Ingestion | hematopoietic system | All data are negative | Rat | NOAEL 500 mg/kg/day | 90 days |
| ate (3',4'- Epoxycyclohexylmethyl) 3,4- epoxycyclohexanecarboxyl ate | Ingestion | endocrine system respiratory system | All data are negative | Rat | NOAEL 1,113 mg/kg/day | 14 days |

Aspiration Hazard

| Name | Value |
|------------------|-------------------|
| Toluene | Aspiration hazard |
| Ethylbenzene | Aspiration hazard |
| Stoddard solvent | 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. 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

15.1. US Federal Regulations

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

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

| Ingredient | C.A.S. No | <u>% by Wt</u> |
|--|------------|----------------|
| Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)- pyrimidinetrione complexes (NICKEL COMPOUNDS) | 68511-62-6 | 0.1 - 1.0 |

Ethylbenzene

100-41-4 < 0.3

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.

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: 2 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: | 34-8906-9 | Version Number: | 1.00 |
|-----------------|-----------|------------------|---------------|
| Issue Date: | 06/16/15 | Supercedes Date: | Initial Issue |

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