Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier
3M™ Scotchcal™ High Performance Ink 7904, White

Product Identification Numbers

ID Number	UPC	ID Number	UPC
75-3465-8624-3		75-3465-9315-7	
75-3472-9886-3			

4000009414, 7100183340

1.2. Recommended use and restrictions on use

Recommended use
Automotive - Industrial/Professional use, Ink

1.3. Supplier's details

MANUFACTURER:	3M
DIVISION:	Automotive and Aerospace Solutions 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.
Skin Corrosion/Irritation: Category 2.
Serious Eye Damage/Irritation: Category 1.
Carcinogenicity: Category 2.
Reproductive Toxicity: Category 2.
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 skin irritation.
Causes serious eye damage.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
May cause drowsiness or dizziness.
May cause respiratory irritation.

Precautionary statements

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof electrical, ventilating and lighting equipment.
Use non-sparking tools.
Take action to prevent static discharges.
Avoid breathing vapors.
Wash exposed skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves, eye protection, face protection, and if needed, respiratory protection (see SDS Section 8).

Response:
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Immediately call a POISON CENTER or doctor.
If skin irritation occurs: Get medical advice.
Take off contaminated clothing and wash it 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 cool.
Store locked up.

Disposal:
Dispose of contents and container in accordance with applicable local, regional, national, and international regulations.

21% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
WHITE PIGMENT	13463-67-7	15 - 45 Trade Secret *
CYCLOHEXANONE	108-94-1	10 - 30 Trade Secret *
DIETHYLENE GLYCOL MONOETHYL ETHER ACETATE	112-15-2	10 - 30 Trade Secret *
VINYL RESIN (NJTS 04499600-6295)	Trade Secret*	5 - 15
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	64742-94-5	5 - 10 Trade Secret *
ACRYLIC POLYMER (NJTS 04499600-6296)	Trade Secret*	1 - 5
ALUMINA TRIHYDRATE	21645-51-2	< 3
ALUMINUM OXIDE	1344-28-1	1 - 3
SYNTHETIC CRYSTALLINE-FREE SILICA GEL	112926-00-8	1 - 3
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	6197-30-4	0.5 - 1.5 Trade Secret *
ETHYLBENZENE	100-41-4	< 0.3

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

*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 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

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). 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.

Hazardous Decomposition or By-Products

Substance	Condition
Acetic Acid	During Combustion
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. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

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. 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
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. Avoid breathing 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. Avoid release to the environment. 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)	
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)	
Silica: Amorphous, including natural diatomaceous earth	112926-00-8	OSHA	TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m3	
Aluminum metal and insoluble compounds, respirable fraction	1344-28-1	ACGIH	TWA(respirable fraction):1 mg/m3	A4: Not class. as human carcin
ALUMINUM OXIDE	1344-28-1	OSHA	TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3	
Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles	1344-28-1	ACGIH	TWA(inhalable particulates):10 mg/m3	
Particles (insoluble or poorly soluble) not otherwise specified, respirable particles	1344-28-1	ACGIH	TWA(respirable particles):3 mg/m3	
WHITE PIGMENT	13463-67-7	ACGIH	TWA(Respirable nanoscale particles):0.2 mg/m3;TWA(Respirable finescale particles):2.5 mg/m3	A3: Confirmed animal carcin.
WHITE PIGMENT	13463-67-7	OSHA	TWA(as total dust):15 mg/m3	
Aluminum metal and insoluble compounds, respirable fraction	21645-51-2	ACGIH	TWA(respirable fraction):1 mg/m3	A4: Not class. as human carcin
Inert or Nuisance Dust, Respirable fraction	21645-51-2	OSHA	TWA(as total dust):50 millions of particles/cu. ft.(15 mg/m3);TWA(respirable fraction):15 millions of particles/cu. ft.(5 mg/m3)	
Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles	21645-51-2	ACGIH	TWA(inhalable particulates):10 mg/m3	
Particles (insoluble or poorly soluble) not otherwise specified,	21645-51-2	ACGIH	TWA(respirable particles):3 mg/m3	

respirable particles				
Kerosene/Jet fuels (non-aerosol), as total hydrocarbon vapor	64742-94-5	ACGIH	TWA(as total hydrocarbon vapor, non-aerosol):200 mg/m3	A3: Confirmed animal carcin., 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
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

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Color	White
Odor	Moderate Solvent
Odor threshold	*No Data Available*
pH	*Not Applicable*
Melting point/Freezing point	*Not Applicable*
Boiling point/Initial boiling point/Boiling range	137.8 - 213.9 ºC

Flash Point	Approximately 43.9 ºC [*Test Method:*Tagliabue Closed Cup]
Evaporation rate	Approximately 0.14 [*Ref Std:*BUOAC=1]
Flammability	Flammable Liquid: Category 3.
Flammable Limits(LEL)	Approximately 1 % volume
Flammable Limits(UEL)	Approximately 19.5 % volume
Vapor Pressure	Approximately 1.5 mmHg
Relative Vapor Density	Approximately 4.7 [*Ref Std:*AIR=1]
Density	1.4 kg/l
Relative Density	Approximately 11.27
Water solubility	Approximately 20 g/100 g
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	Approximately 360 ºC
Decomposition temperature	*No Data Available*
Kinematic Viscosity	2,221 mm2/sec
Volatile Organic Compounds	Approximately 691 g/l [*Test Method:*calculated SCAQMD rule 443.1]
Percent volatile	Approximately 51 % weight
VOC Less H2O & Exempt Solvents	Approximately 691 g/l [*Test Method:*calculated SCAQMD rule 443.1]
Molecular weight	*No Data Available*

Particle Characteristics	*Not Applicable*

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
None known.

10.5. Incompatible materials
Strong oxidizing agents

Mercaptans, Isocyanates, Aldehydes, Strong alkalies, Alkali metal hydroxides

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) in sensitive people: Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:
Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Ingestion:
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and 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
Ethylbenzene	100-41-4	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Titanium dioxide	13463-67-7	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-		No data available; calculated ATE >20 - =50 mg/l

	Vapor(4 hr)		
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
WHITE PIGMENT	Dermal	Rabbit	LD50 > 10,000 mg/kg
WHITE PIGMENT	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.82 mg/l
WHITE PIGMENT	Ingestion	Rat	LD50 > 10,000 mg/kg
CYCLOHEXANONE	Dermal	Rabbit	LD50 >794, <3160 mg/kg
CYCLOHEXANONE	Inhalation-Vapor (4 hours)	Rat	LC50 > 6.2 mg/l
CYCLOHEXANONE	Ingestion	Rat	LD50 1,296 mg/kg
DIETHYLENE GLYCOL MONOETHYL ETHER ACETATE	Dermal	Rabbit	LD50 15,000 mg/kg
DIETHYLENE GLYCOL MONOETHYL ETHER ACETATE	Ingestion	Rat	LD50 11,000 mg/kg
VINYL RESIN (NJTS 04499600-6295)	Dermal	Rabbit	LD50 > 8,000 mg/kg
VINYL RESIN (NJTS 04499600-6295)	Ingestion	Rat	LD50 > 8,000 mg/kg
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Dermal	Rabbit	LD50 > 2,000 mg/kg
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Ingestion	Rat	LD50 > 5,000 mg/kg
ACRYLIC POLYMER (NJTS 04499600-6296)	Dermal		LD50 estimated to be > 5,000 mg/kg
ACRYLIC POLYMER (NJTS 04499600-6296)	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
ALUMINA TRIHYDRATE	Dermal		LD50 estimated to be > 5,000 mg/kg
ALUMINA TRIHYDRATE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.3 mg/l
ALUMINA TRIHYDRATE	Ingestion	Rat	LD50 > 5,000 mg/kg
SYNTHETIC CRYSTALLINE-FREE SILICA GEL	Dermal	Rabbit	LD50 > 5,000 mg/kg
SYNTHETIC CRYSTALLINE-FREE SILICA GEL	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
SYNTHETIC CRYSTALLINE-FREE SILICA GEL	Ingestion	Rat	LD50 > 5,110 mg/kg
ALUMINUM OXIDE	Dermal		LD50 estimated to be > 5,000 mg/kg
ALUMINUM OXIDE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.3 mg/l
ALUMINUM OXIDE	Ingestion	Rat	LD50 > 5,000 mg/kg
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	Dermal	Rat	LD50 > 2,000 mg/kg
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	Ingestion	Rat	LD50 > 5,000 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

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
WHITE PIGMENT	Rabbit	No significant irritation
CYCLOHEXANONE	Rabbit	Irritant
DIETHYLENE GLYCOL MONOETHYL ETHER ACETATE	Human and animal	Minimal irritation
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Rabbit	Irritant
ACRYLIC POLYMER (NJTS 04499600-6296)	Professional judgement	No significant irritation
ALUMINA TRIHYDRATE	Rabbit	No significant irritation
SYNTHETIC CRYSTALLINE-FREE SILICA GEL	Rabbit	No significant irritation
ALUMINUM OXIDE	Rabbit	No significant irritation
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	Rabbit	No significant irritation
ETHYLBENZENE	Rabbit	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
WHITE PIGMENT	Rabbit	No significant irritation
CYCLOHEXANONE	In vitro data	Corrosive
DIETHYLENE GLYCOL MONOETHYL ETHER ACETATE	Rabbit	Severe irritant
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Rabbit	Mild irritant
ACRYLIC POLYMER (NJTS 04499600-6296)	Professional judgement	No significant irritation
ALUMINA TRIHYDRATE	Rabbit	No significant irritation
SYNTHETIC CRYSTALLINE-FREE SILICA GEL	Rabbit	No significant irritation
ALUMINUM OXIDE	Rabbit	No significant irritation
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	Rabbit	No significant irritation
ETHYLBENZENE	Rabbit	Moderate irritant

Skin Sensitization

Name	Species	Value
WHITE PIGMENT	Human and animal	Not classified
CYCLOHEXANONE	Guinea pig	Not classified
DIETHYLENE GLYCOL MONOETHYL ETHER ACETATE	Human and animal	Not classified
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Guinea pig	Not classified
ALUMINA TRIHYDRATE	Guinea pig	Not classified
SYNTHETIC CRYSTALLINE-FREE SILICA GEL	Human and animal	Not classified
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	Human	Some positive data exist, but the data are not sufficient for classification
ETHYLBENZENE	Human	Not classified

Photosensitization

Name	Species	Value
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	Guinea pig	Not sensitizing

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
WHITE PIGMENT	In Vitro	Not mutagenic
WHITE PIGMENT	In vivo	Not mutagenic
CYCLOHEXANONE	In Vitro	Not mutagenic
CYCLOHEXANONE	In vivo	Not mutagenic
DIETHYLENE GLYCOL MONOETHYL ETHER ACETATE	In Vitro	Not mutagenic
SYNTHETIC CRYSTALLINE-FREE SILICA GEL	In Vitro	Not mutagenic
ALUMINUM OXIDE	In Vitro	Not mutagenic
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	In Vitro	Not mutagenic
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	In vivo	Not mutagenic
ETHYLBENZENE	In vivo	Not mutagenic
ETHYLBENZENE	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
WHITE PIGMENT	Ingestion	Multiple animal species	Not carcinogenic
WHITE PIGMENT	Inhalation	Rat	Carcinogenic
CYCLOHEXANONE	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
ALUMINA TRIHYDRATE	Not Specified	Multiple animal species	Not carcinogenic
SYNTHETIC CRYSTALLINE-FREE SILICA GEL	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification
ALUMINUM OXIDE	Inhalation	Rat	Not carcinogenic
ETHYLBENZENE	Inhalation	Multiple animal species	Carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
CYCLOHEXANONE	Inhalation	Not classified for female reproduction	Rat	NOAEL 4 mg/l	2 generation
CYCLOHEXANONE	Ingestion	Not classified for development	Rabbit	NOAEL 500 mg/kg/day	during gestation
CYCLOHEXANONE	Inhalation	Not classified for male reproduction	Rat	NOAEL 2 mg/l	2 generation
CYCLOHEXANONE	Inhalation	Not classified for development	Rat	NOAEL 2.6 mg/l	during gestation
VINYL RESIN (NJTS 04499600-6295)	Ingestion	Not classified for female reproduction	Rat	NOAEL 5.75 mg/kg/day	premating into lactation
VINYL RESIN (NJTS 04499600-6295)	Ingestion	Not classified for male reproduction	Rat	NOAEL 5.75 mg/kg/day	weeks
VINYL RESIN (NJTS 04499600-6295)	Ingestion	Not classified for development	Rat	NOAEL 5.75 mg/kg/day	premating into lactation
ALUMINA TRIHYDRATE	Ingestion	Not classified for development	Rat	NOAEL 768 mg/kg/day	during organogenesis
SYNTHETIC CRYSTALLINE-FREE SILICA GEL	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
SYNTHETIC CRYSTALLINE-FREE SILICA GEL	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
SYNTHETIC CRYSTALLINE-FREE SILICA GEL	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	Ingestion	Not classified for male reproduction	Rat	NOAEL 534 mg/kg/day	2 generation
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	Ingestion	Not classified for development	Rat	NOAEL 163 mg/kg/day	2 generation
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	Ingestion	Toxic to female reproduction	Rat	NOAEL 163 mg/kg/day	2 generation
ETHYLBENZENE	Inhalation	Not classified for development	Rat	NOAEL 4.3 mg/l	premating & during gestation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
CYCLOHEXANONE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Guinea pig	LOAEL 16.1 mg/l	6 hours
CYCLOHEXANONE	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	
CYCLOHEXANONE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
DIETHYLENE GLYCOL MONOETHYL ETHER ACETATE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	not applicable
DIETHYLENE GLYCOL MONOETHYL ETHER ACETATE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	not applicable
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Professional judgement	NOAEL Not available	
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
ETHYLBENZENE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
ETHYLBENZENE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human and animal	NOAEL Not available	
ETHYLBENZENE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
WHITE PIGMENT	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.01 mg/l	2 years
WHITE PIGMENT	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
CYCLOHEXANONE	Inhalation	liver	Not classified	Rat	NOAEL 2.5 mg/l	13 weeks
CYCLOHEXANONE	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 2.5 mg/l	13 weeks
CYCLOHEXANONE	Inhalation	heart	Not classified	Rat	NOAEL 2.5 mg/l	13 weeks
CYCLOHEXANONE	Inhalation	skin	Not classified	Rat	NOAEL 2.5 mg/l	13 weeks
CYCLOHEXANONE	Inhalation	endocrine system	Not classified	Rat	NOAEL 2.5 mg/l	13 weeks
CYCLOHEXANONE	Inhalation	gastrointestinal tract	Not classified	Rat	NOAEL 2.5 mg/l	13 weeks
CYCLOHEXANONE	Inhalation	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 2.5 mg/l	13 weeks
CYCLOHEXANONE	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 2.5 mg/l	13 weeks
CYCLOHEXANONE	Inhalation	immune system	Not classified	Rat	NOAEL 2.5 mg/l	13 weeks
CYCLOHEXANONE	Inhalation	muscles	Not classified	Rat	NOAEL 2.5	13 weeks

					mg/l	
CYCLOHEXANONE	Inhalation	nervous system	Not classified	Rat	NOAEL 2.5 mg/l	13 weeks
CYCLOHEXANONE	Inhalation	eyes	Not classified	Rat	NOAEL 2.5 mg/l	13 weeks
CYCLOHEXANONE	Inhalation	respiratory system	Not classified	Rat	NOAEL 2.5 mg/l	13 weeks
CYCLOHEXANONE	Inhalation	vascular system	Not classified	Rat	NOAEL 2.5 mg/l	13 weeks
CYCLOHEXANONE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 407 mg/kg/day	3 months
CYCLOHEXANONE	Ingestion	eyes	Not classified	Rat	NOAEL 407 mg/kg/day	3 months
CYCLOHEXANONE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 407 mg/kg/day	3 months
DIETHYLENE GLYCOL MONOETHYL ETHER ACETATE	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.48 mg/l	2 weeks
DIETHYLENE GLYCOL MONOETHYL ETHER ACETATE	Inhalation	liver	Not classified	Rat	NOAEL 0.48 mg/l	2 weeks
DIETHYLENE GLYCOL MONOETHYL ETHER ACETATE	Inhalation	immune system	Not classified	Rat	NOAEL 0.48 mg/l	2 weeks
DIETHYLENE GLYCOL MONOETHYL ETHER ACETATE	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.48 mg/l	2 weeks
VINYL RESIN (NJTS 04499600-6295)	Ingestion	endocrine system	Not classified	Rat	NOAEL 5.75 mg/kg/day	2 years
VINYL RESIN (NJTS 04499600-6295)	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 5.75 mg/kg/day	2 years
VINYL RESIN (NJTS 04499600-6295)	Ingestion	liver	Not classified	Rat	NOAEL 5.75 mg/kg/day	2 years
VINYL RESIN (NJTS 04499600-6295)	Ingestion	nervous system	Not classified	Rat	NOAEL 5.75 mg/kg/day	2 years
VINYL RESIN (NJTS 04499600-6295)	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 5.75 mg/kg/day	2 years
VINYL RESIN (NJTS 04499600-6295)	Ingestion	respiratory system	Not classified	Rat	NOAEL 5.75 mg/kg/day	2 years
SYNTHETIC CRYSTALLINE-FREE SILICA GEL	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
SYNTHETIC CRYSTALLINE-FREE SILICA GEL	Inhalation	silicosis	Not classified	Human	NOAEL Not available	occupational exposure
ALUMINUM OXIDE	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
ALUMINUM OXIDE	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	Dermal	skin	Not classified	Rabbit	NOAEL 534 mg/kg/day	90 days
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	Dermal	liver	Not classified	Rabbit	NOAEL 534 mg/kg/day	90 days
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	Dermal	hematopoietic system	Not classified	Rabbit	NOAEL 534 mg/kg/day	90 days
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	Dermal	kidney and/or bladder	Not classified	Rabbit	NOAEL 534 mg/kg/day	90 days
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,085 mg/kg/day	90 days
2-ETHYLHEXYL 2-CYANO-3,3-	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,085	90 days

DIPHENYLACRYLATE					mg/kg/day	
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	Ingestion	liver	Not classified	Rat	NOAEL 1,085 mg/kg/day	90 days
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,085 mg/kg/day	90 days
ETHYLBENZENE	Inhalation	auditory system	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 0.9 mg/l	13 weeks
ETHYLBENZENE	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.1 mg/l	2 years
ETHYLBENZENE	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 1.1 mg/l	103 weeks
ETHYLBENZENE	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 3.4 mg/l	28 days
ETHYLBENZENE	Inhalation	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	Not classified	Multiple animal species	NOAEL 4.2 mg/l	90 days
ETHYLBENZENE	Inhalation	muscles	Not classified	Multiple animal species	NOAEL 4.2 mg/l	90 days
ETHYLBENZENE	Inhalation	heart	Not classified	Multiple animal species	NOAEL 3.3 mg/l	2 years
ETHYLBENZENE	Inhalation	immune system	Not classified	Multiple animal species	NOAEL 3.3 mg/l	2 years
ETHYLBENZENE	Inhalation	respiratory system	Not classified	Multiple animal species	NOAEL 3.3 mg/l	2 years
ETHYLBENZENE	Ingestion	liver	Not classified	Rat	NOAEL 680 mg/kg/day	6 months
ETHYLBENZENE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 680 mg/kg/day	6 months

Aspiration Hazard

Name	Value
HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM)	Aspiration hazard
ETHYLBENZENE	Aspiration hazard

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

SECTION 12: Ecological information

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

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
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):

Ingredient	C.A.S. No	% by Wt
DIETHYLENE GLYCOL MONOETHYL ETHER ACETATE	112-15-2	Trade Secret 10 - 30
ALUMINUM OXIDE	1344-28-1	1 - 3
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. 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.

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