Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier
3M™ Pressure Sensitive Adhesive 09273

Product Identification Numbers
UU-0126-7466-7
7100309153

1.2. Recommended use and restrictions on use

Recommended use
Adhesive

1.3. Supplier's details

MANUFACTURER:	3M
DIVISION:	Materials Resource 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.
Acute Toxicity (oral): Category 4.
Skin Sensitizer: Category 1.
Carcinogenicity: Category 2.
Reproductive Toxicity: Category 2.

2.2. Label elements
Signal word
Warning

Symbols
Flame |Exclamation mark |Health Hazard |

Pictograms



Hazard Statements
Flammable liquid and vapor.

Harmful if swallowed.
May cause an allergic skin reaction.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.

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.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
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 exposed or concerned: Call a POISON CENTER or doctor.
Rinse mouth.
If skin irritation or rash occurs: Get medical attention.
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.

26% of the mixture consists of ingredients of unknown acute oral toxicity.
40% of the mixture consists of ingredients of unknown acute dermal toxicity.
26% 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-BUTOXYETHYL ACETATE	112-07-2	15 - 40 Trade Secret *
MODIFIED ACRYLIC COPOLYMER	Trade Secret*	20 - 30

Polymer	Trade Secret*	10 - 15
2,4-Pentanedione	123-54-6	5 - 10 Trade Secret *
Methyl N-Amyl Ketone	110-43-0	5 - 10 Trade Secret *
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	6197-30-4	1 - 5 Trade Secret *
CELLULOSE ACETATE BUTYRATE	9004-36-8	< 2.5
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	41556-26-7	0.1 - 1 Trade Secret *
Ethylbenzene	100-41-4	0.1 - 1 Trade Secret *
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	82919-37-7	< 0.2

*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:
If exposed, flush eyes with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms develop, 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).

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
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Ketones	During Combustion
Toxic Vapor, Gas, Particulate	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. Cover spill area with a fire-extinguishing foam. 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 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. 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)	
Methyl N-Amyl Ketone	110-43-0	ACGIH	TWA:50 ppm	
Methyl N-Amyl Ketone	110-43-0	OSHA	TWA:465 mg/m3(100 ppm)	
2-BUTOXYETHYL ACETATE	112-07-2	ACGIH	TWA:20 ppm	A3: Confirmed animal carcin.
2,4-Pentanedione	123-54-6	ACGIH	TWA:25 ppm	Danger of cutaneous absorption

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

Eye protection not required.

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 (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

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	Colorless
Odor	Sweet Solvent
Odor threshold	*No Data Available*
pH	*Not Applicable*
Melting point/Freezing point	*Not Applicable*
Boiling point/Initial boiling point/Boiling range	150 - 186 ºC
Flash Point	39 ºC [*Test Method:*Closed Cup]
Evaporation rate	*No Data Available*
Flammability	Flammable Liquid: Category 3.
Flammable Limits(LEL)	*No Data Available*
Flammable Limits(UEL)	*No Data Available*
Vapor Pressure	2.6 mmHg [@ 20 ºC]
Relative Vapor Density	*No Data Available*
Density	0.99 g/ml
Relative Density	0.99 [*Ref Std:*WATER=1]
Water solubility	<=1 %
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*No Data Available*
Decomposition temperature	*No Data Available*
Kinematic Viscosity	167 mm2/sec
Volatile Organic Compounds	55 % weight [*Details:*Calculated]
Percent volatile	*No Data Available*
VOC Less H2O & Exempt Solvents	*No Data Available*
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

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.
May cause additional health effects (see below).

Skin Contact:
May be harmful in contact with skin.
Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:
Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion:
Harmful if swallowed. 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
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 >2,000 - =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 >300 - =2,000 mg/kg
2-BUTOXYETHYL ACETATE	Dermal	Rabbit	LD50 > 4,766 mg/kg
2-BUTOXYETHYL ACETATE	Inhalation-	Rat	LC50 > 2.66 mg/l

	Vapor (4 hours)		
2-BUTOXYETHYL ACETATE	Ingestion	Rat	LD50 1,880 mg/kg
Methyl N-Amyl Ketone	Dermal	Rat	LD50 > 2,000 mg/kg
Methyl N-Amyl Ketone	Inhalation-Vapor (4 hours)	Rat	LC50 > 16.7 mg/l
Methyl N-Amyl Ketone	Ingestion	Rat	LD50 1,600 mg/kg
2,4-Pentanedione	Dermal	Rabbit	LD50 790 mg/kg
2,4-Pentanedione	Inhalation-Vapor (4 hours)	Rat	LC50 5.1 mg/l
2,4-Pentanedione	Ingestion	Rat	LD50 570 mg/kg
CELLULOSE ACETATE BUTYRATE	Dermal	Guinea pig	LD50 > 1,000 mg/kg
CELLULOSE ACETATE BUTYRATE	Ingestion	Rat	LD50 > 6,400 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
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Dermal	Professional judgement	LD50 estimated to be 2,000 - 5,000 mg/kg
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	Rat	LD50 3,125 mg/kg
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Dermal	Professional judgement	LD50 estimated to be 2,000 - 5,000 mg/kg
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	Rat	LD50 3,125 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
2-BUTOXYETHYL ACETATE	Rabbit	Minimal irritation
Methyl N-Amyl Ketone	Rabbit	Mild irritant
2,4-Pentanedione	Rabbit	Minimal irritation
CELLULOSE ACETATE BUTYRATE	Guinea pig	Minimal irritation
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	Rabbit	No significant irritation
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Rabbit	Minimal irritation
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Rabbit	Minimal irritation
Ethylbenzene	Rabbit	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
2-BUTOXYETHYL ACETATE	Rabbit	Mild irritant
Methyl N-Amyl Ketone	Rabbit	Mild irritant
2,4-Pentanedione	Rabbit	No significant irritation
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	Rabbit	No significant irritation
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Rabbit	Mild irritant
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Rabbit	Mild irritant
Ethylbenzene	Rabbit	Moderate irritant

Skin Sensitization

Name	Species	Value
2-BUTOXYETHYL ACETATE	Guinea pig	Not classified

Methyl N-Amyl Ketone	Mouse	Not classified
2,4-Pentanedione	Mouse	Not classified
CELLULOSE ACETATE BUTYRATE	Guinea pig	Not classified
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	Human	Some positive data exist, but the data are not sufficient for classification
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Guinea pig	Sensitizing
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Guinea pig	Sensitizing
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
Methyl N-Amyl Ketone	In Vitro	Not mutagenic
Methyl N-Amyl Ketone	In vivo	Not mutagenic
2,4-Pentanedione	In Vitro	Some positive data exist, but the data are not sufficient for classification
2,4-Pentanedione	In vivo	Some positive data exist, but the data are not sufficient for classification
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	In Vitro	Not mutagenic
2-ETHYLHEXYL 2-CYANO-3,3-DIPHENYLACRYLATE	In vivo	Not mutagenic
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	In vivo	Not mutagenic
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	In Vitro	Some positive data exist, but the data are not sufficient for classification
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	In vivo	Not mutagenic
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	In Vitro	Some positive data exist, but the data are not sufficient for classification
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
Ethylbenzene	Inhalation	Multiple animal species	Carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Methyl N-Amyl Ketone	Inhalation	Not classified for female reproduction	Rat	NOAEL 4.78 mg/l	premating & during gestation
Methyl N-Amyl Ketone	Inhalation	Not classified for male reproduction	Rat	NOAEL 4.78 mg/l	50 days
Methyl N-Amyl Ketone	Inhalation	Not classified for development	Rat	NOAEL 6.14 mg/l	during gestation
2,4-Pentanedione	Inhalation	Not classified for development	Rat	NOAEL 0.84 mg/l	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
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,493 mg/kg/day	29 days
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	Not classified for development	Rat	NOAEL 209 mg/kg/day	premating into lactation
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	Toxic to female reproduction	Rat	NOAEL 804 mg/kg/day	premating into lactation
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,493 mg/kg/day	29 days
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	Not classified for development	Rat	NOAEL 209 mg/kg/day	premating into lactation
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	Toxic to female reproduction	Rat	NOAEL 804 mg/kg/day	premating into lactation
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
2-BUTOXYETHYL ACETATE	Dermal	blood	Not classified	similar compounds	NOAEL Not available	
2-BUTOXYETHYL ACETATE	Inhalation	central nervous system depression	Some positive data exist, but the data are not sufficient for classification	similar compounds	NOAEL Not available	
2-BUTOXYETHYL ACETATE	Inhalation	blood	Not classified	similar compounds	NOAEL Not available	
2-BUTOXYETHYL ACETATE	Ingestion	blood	Not classified	similar compounds	NOAEL Not available	
Methyl N-Amyl Ketone	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
Methyl N-Amyl Ketone	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	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
2-BUTOXYETHYL ACETATE	Dermal	blood	Not classified	similar compounds	NOAEL Not available	not available
2-BUTOXYETHYL	Inhalation	blood	Not classified	similar	NOAEL Not	6 months

ACETATE				compoun ds	available	
2-BUTOXYETHYL ACETATE	Ingestion	blood	Not classified	similar compoun ds	NOAEL Not available	13 weeks
Methyl N-Amyl Ketone	Inhalation	heart	Not classified	Multiple animal species	NOAEL 4.79 mg/l	10 months
Methyl N-Amyl Ketone	Inhalation	endocrine system	Not classified	Multiple animal species	NOAEL 4.79 mg/l	10 months
Methyl N-Amyl Ketone	Inhalation	hematopoietic system	Not classified	Multiple animal species	NOAEL 4.79 mg/l	10 months
Methyl N-Amyl Ketone	Inhalation	liver	Not classified	Multiple animal species	NOAEL 4.79 mg/l	10 months
Methyl N-Amyl Ketone	Inhalation	nervous system	Not classified	Multiple animal species	NOAEL 4.79 mg/l	10 months
Methyl N-Amyl Ketone	Inhalation	kidney and/or bladder	Not classified	Multiple animal species	NOAEL 4.79 mg/l	10 months
Methyl N-Amyl Ketone	Inhalation	respiratory system	Not classified	Multiple animal species	NOAEL 4.79 mg/l	10 months
Methyl N-Amyl Ketone	Ingestion	liver	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Methyl N-Amyl Ketone	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Methyl N-Amyl Ketone	Ingestion	heart	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Methyl N-Amyl Ketone	Ingestion	endocrine system	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Methyl N-Amyl Ketone	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Methyl N-Amyl Ketone	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Methyl N-Amyl Ketone	Ingestion	immune system	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Methyl N-Amyl Ketone	Ingestion	muscles	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Methyl N-Amyl Ketone	Ingestion	nervous system	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Methyl N-Amyl Ketone	Ingestion	vascular system	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
2,4-Pentanedione	Dermal	hematopoietic system	Not classified	Rat	NOAEL 244 mg/kg/day	9 days
2,4-Pentanedione	Dermal	immune system	Not classified	Rat	NOAEL 244 mg/kg/day	9 days
2,4-Pentanedione	Dermal	nervous system	Not classified	Rat	NOAEL 244 mg/kg/day	9 days
2,4-Pentanedione	Dermal	respiratory system	Not classified	Rat	NOAEL 244 mg/kg/day	9 days
2,4-Pentanedione	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 1.22 mg/l	14 weeks
2,4-Pentanedione	Inhalation	immune system	Not classified	Rat	NOAEL 1.22 mg/l	14 weeks
2,4-Pentanedione	Inhalation	nervous system	Not classified	Rat	NOAEL 1.22 mg/l	14 weeks
2,4-Pentanedione	Inhalation	respiratory system	Not classified	Rat	NOAEL 1.22 mg/l	14 weeks
2,4-Pentanedione	Inhalation	heart	Not classified	Rat	NOAEL 1.22 mg/l	14 weeks
2,4-Pentanedione	Inhalation	endocrine system	Not classified	Rat	NOAEL 1.22 mg/l	14 weeks
2,4-Pentanedione	Inhalation	bone, teeth, nails,	Not classified	Rat	NOAEL 1.22	14 weeks

		and/or hair			mg/l	
2,4-Pentanedione	Inhalation	liver	Not classified	Rat	NOAEL 1.22 mg/l	14 weeks
2,4-Pentanedione	Inhalation	muscles	Not classified	Rat	NOAEL 1.22 mg/l	14 weeks
2,4-Pentanedione	Inhalation	eyes	Not classified	Rat	NOAEL 1.22 mg/l	14 weeks
2,4-Pentanedione	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 1.22 mg/l	14 weeks
2,4-Pentanedione	Ingestion	heart	Not classified	Rat	NOAEL 100 mg/kg/day	2 weeks
2,4-Pentanedione	Ingestion	liver	Not classified	Rat	NOAEL 100 mg/kg/day	2 weeks
2,4-Pentanedione	Ingestion	immune system	Not classified	Rat	NOAEL 100 mg/kg/day	2 weeks
2,4-Pentanedione	Ingestion	eyes	Not classified	Rat	NOAEL 100 mg/kg/day	2 weeks
2,4-Pentanedione	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 100 mg/kg/day	2 weeks
2,4-Pentanedione	Ingestion	respiratory system	Not classified	Rat	NOAEL 100 mg/kg/day	2 weeks
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-DIPHENYLACRYLATE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,085 mg/kg/day	90 days
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
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	eyes	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 300 mg/kg/day	28 days
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	liver	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	immune system	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	heart	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
Bis(1,2,2,6,6-pentamethyl-	Ingestion	nervous system	Not classified	Rat	NOAEL	29 days

4-piperidinyl) sebacate					1,493 mg/kg/day	
Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	eyes	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 300 mg/kg/day	28 days
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	liver	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	immune system	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	heart	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	nervous system	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 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
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. 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
Acute toxicity

Carcinogenicity
Reproductive toxicity
Respiratory or Skin Sensitization

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
2-BUTOXYETHYL ACETATE	112-07-2	Trade Secret 15 - 40
Ethylbenzene	100-41-4	Trade Secret 0.1 - 1

This material contains a chemical which requires export notification under TSCA Section 12[b]:

Ingredient (Category if applicable)	C.A.S. No	Regulation	Status
2,4-Pentanedione	123-54-6	Toxic Substances Control Act (TSCA) 5 SNUR or Consent Order Chemicals	Proposed

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: 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.

HMIS Hazard Classification
Health: *2 **Flammability:** 2 **Physical Hazard:** 0 **Personal Protection:** X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

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