



Safety Data Sheet

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

1.1. Product identifier

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Product Identification Numbers

75-0301-3622-2

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

Identified uses

Ink

1.3. Details of the supplier of the safety data sheet

ADDRESS: 3M Israel, 91 Medinat Ha'Yehudim Street, Herzeliya 46120

Telephone: 09-961 5000

E Mail: innovation.il@mmm.com

Website: www.3M.com/il

1.4. Emergency telephone number

09-961 5000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

CLASSIFICATION:

Flammable Liquid, Category 3 - Flam. Liq. 3; H226

Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319

Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315

Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H336

Hazardous to the Aquatic Environment (Acute), Category 1 - Aquatic Acute 1; H400

Hazardous to the Aquatic Environment (Chronic), Category 1 - Aquatic Chronic 1; H410

For full text of H phrases, see Section 16.

2.2. Label elements

CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

Warning

Symbols:

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

Pictograms**Ingredients:**

| Ingredient | C.A.S. No. | EC No. | % by Wt |
|--------------------------------------------|------------|-----------|---------|
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | 64742-94-5 | 265-198-5 | 15 - 40 |

HAZARD STATEMENTS:

| | |
|------|-------------------------------------------------------|
| H226 | Flammable liquid and vapor. |
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |
| H336 | May cause drowsiness or dizziness. |
| H410 | Very toxic to aquatic life with long lasting effects. |

PRECAUTIONARY STATEMENTS**Prevention:**

| | |
|-------|------------------------------------------------------------------------------------------------|
| P210A | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P261A | Avoid breathing vapors. |
| P273 | Avoid release to the environment. |

Response:

| | |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P370 + P378G | In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish. |

Disposal:

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

SUPPLEMENTAL INFORMATION**Supplemental Hazard Statements:**

| | |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUH208 | Contains Oils, orange. (3',4'-EPOXYCYCLOHEXYLMETHYL) 3,4-EPOXYCYCLOHEXANECARBOXYLATE. N-Butyl Methacrylate. D-Limonene. May produce an allergic reaction. |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|

38% of the mixture consists of components of unknown acute inhalation toxicity.
Contains 50% of components with unknown hazards to the aquatic environment.

Notes on labelling:

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

Nota P applied to CASRN 64742-95-6

2.3. Other hazards

None known

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | EC No. | % by Wt | Classification |
|-------------------------------------------------------------------|--------------|-----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acrylic polymers | Trade Secret | | 15 - 40 | Substance not classified as hazardous |
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | 64742-94-5 | 265-198-5 | 15 - 40 | **Asp. Tox. 1**, H304 **Flam. Liq. 3**, H226; **Skin Irrit. 2**, H315; **STOT SE 3**, H336; **Aquatic Acute 1**, H400,M=1; **Aquatic Chronic 1**, H410,M=1 |
| Pine oil | 8002-09-3 | | 10 - 30 | **Skin Irrit. 2**, H315; **Eye Irrit. 2**, H319 |
| Vinyl polymer (New Jersey Trade Secret Registry # 04499600-5238P) | Trade Secret | | 3 - 10 | Substance not classified as hazardous |
| Cyclohexanone | 108-94-1 | 203-631-1 | 5 - 10 | **Flam. Liq. 3**, H226; **Acute Tox. 4**, H332 **Acute Tox. 4**, H312; **Acute Tox. 4**, H302; **Skin Irrit. 2**, H315; **Eye Irrit. 2**, H319 |
| 1-methoxy-2-propyl acetate | 108-65-6 | 203-603-9 | 5 - 10 | **Flam. Liq. 3**, H226 |
| LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM) | 64742-95-6 | 265-199-0 | 3 - 7 | **Asp. Tox. 1**, H304 - Nota P **Flam. Liq. 3**, H226; **Aquatic Chronic 2**, H411 **Skin Irrit. 2**, H315; **STOT SE 3**, H336 |
| Carbon black | 1333-86-4 | 215-609-9 | 1 - 5 | Substance with a Community level exposure limit in the workplace |
| 1,2,4-TRIMETHYLBENZENE | 95-63-6 | 202-436-9 | 1 - 5 | **Flam. Liq. 3**, H226; **Acute Tox. 4**, H332; **Skin Irrit. 2**, H315; **Eye Irrit. 2**, H319; **STOT SE 3**, H335; **Aquatic Chronic 2**, H411 |
| Xylene | 1330-20-7 | 215-535-7 | < 0.7 | **Flam. Liq. 3**, H226; **Acute Tox. 4**, H332; **Acute Tox. 4**, H312; **Skin Irrit. 2**, H315 - Nota C **Aquatic Chronic 3**, H412 **Asp. Tox. 1**, H304; **Eye Irrit. 2**, H319; **STOT SE 3**, H335; **STOT RE 2**, H373 |
| 2,6-DIMETHYL-4-HEPTANONE | 108-83-8 | 203-620-1 | < 0.6 | **Flam. Liq. 3**, H226; **STOT SE 3**, H335 |

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|--------------------------------------------------------------------------|-----------|-----------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (3',4'-EPOXYCYCLOHEXYLMETHYL) 3,4- EPOXYCYCLOHEXANECARBOXYLAT E | 2386-87-0 | 219-207-4 | < 0.5 | **Skin Sens. 1B**, H317; **STOT RE 2**, H373 |
| N-Butyl Methacrylate | 97-88-1 | 202-615-1 | < 0.4 | **Flam. Liq. 3**, H226; **Skin Irrit. 2**, H315; **Eye Irrit. 2**, H319; **Skin Sens. 1B**, H317; **STOT SE 3**, H335 - Nota D |
| Oils, orange | 8008-57-9 | | < 0.3 | **Flam. Liq. 3**, H226; **Asp. Tox. 1**, H304; **Skin Irrit. 2**, H315; **Skin Sens. 1**, H317; **Aquatic Acute 1**, H400,M=1; **Aquatic Chronic 2**, H411 |
| Naphthalene | 91-20-3 | 202-049-5 | < 0.3 | **Acute Tox. 4**, H302; **Carc. 2**, H351; **Aquatic Acute 1**, H400,M=1; **Aquatic Chronic 1**, H410,M=1 |
| Toluene | 108-88-3 | 203-625-9 | < 0.3 | **Flam. Liq. 2**, H225; **Asp. Tox. 1**, H304; **Skin Irrit. 2**, H315; **Repr. 2**, H361d; **STOT SE 3**, H336; **STOT RE 2**, H373 **Aquatic Chronic 3**, H412 **Eye Irrit. 2**, H319 |
| GLYCOLIC ACID, BUTYL ESTER | 7397-62-8 | 230-991-7 | < 0.2 | **Eye Dam. 1**, H318; **Repr. 2**, H361d; **STOT SE 3**, H335 |
| Ethylbenzene | 100-41-4 | 202-849-4 | < 0.2 | **Flam. Liq. 2**, H225; **Acute Tox. 4**, H332; **Asp. Tox. 1**, H304; **STOT RE 2**, H373 **Aquatic Chronic 3**, H412 |
| Cumene | 98-82-8 | 202-704-5 | < 0.2 | **Flam. Liq. 3**, H226; **Asp. Tox. 1**, H304; **STOT SE 3**, H335; **Aquatic Chronic 2**, H411 - Nota C |
| D-Limonene | 5989-27-5 | 227-813-5 | < 0.2 | **Flam. Liq. 3**, H226; **Skin Irrit. 2**, H315; **Skin Sens. 1**, H317; **Aquatic Acute 1**, H400,M=1; **Aquatic Chronic 1**, H410,M=1 - Nota C |

Please see section 16 for the full text of any H statements referred to in this section

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

SECTION 4: First aid measures**4.1. Description of first aid measures****Inhalation:**

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:

Immediately flush with large amounts of water. 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. 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

Hydrocarbons
Carbon monoxide
Carbon dioxide
Hydrogen Chloride

Condition

During Combustion
During Combustion
During Combustion
During Combustion

5.3. Advice for fire-fighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially

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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.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial 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 container tightly closed. Keep cool. Store away from acids. Store away from oxidizing agents.

7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

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

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|--------------------------|------------|--------|---------------------------------|------------------------------------|
| Ethylbenzene | 100-41-4 | ACGIH | TWA:20 ppm | A3: Confirmed animal carcin. |
| 2,6-DIMETHYL-4-HEPTANONE | 108-83-8 | ACGIH | TWA:25 ppm | |
| Toluene | 108-88-3 | ACGIH | TWA:20 ppm | A4: Not class. as human carcin |
| Cyclohexanone | 108-94-1 | ACGIH | TWA:20 ppm;STEL:50 ppm | A3: Confirmed animal carcin., SKIN |
| Xylene | 1330-20-7 | ACGIH | TWA:100 ppm;STEL:150 ppm | A4: Not class. as human carcin |
| Carbon black | 1333-86-4 | ACGIH | TWA(inhalable fraction):3 mg/m3 | A3: Confirmed animal carcin. |
| Naphthalene | 91-20-3 | ACGIH | TWA:10 ppm | A3: Confirmed animal carcin., SKIN |

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| | | | | |
|---------------------|---------|-------|------------|--|
| Benzene, trimethyl- | 95-63-6 | ACGIH | TWA:25 ppm | |
| Cumene | 98-82-8 | ACGIH | TWA:50 ppm | |

ACGIH : American Conference of Governmental Industrial Hygienists

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Indirect Vented Goggles

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|------------------------------------|-------------------------------|
| Physical state | Liquid |
| Appearance/Odor | Solvent odor, black, solution |
| Odor threshold | No Data Available |
| pH | Not Applicable |
| Boiling point/boiling range | >=140 °C |
| Melting point | Not Applicable |
| Flammability (solid, gas) | Not Applicable |
| Explosive properties: | Not Classified |
| Oxidising properties: | Not Classified |

| | |
|------------------------------------------------|-------------------------------------------|
| Flash Point | 52.2 °C [<i>Test Method</i> :Closed Cup] |
| Autoignition temperature | <i>No Data Available</i> |
| Flammable Limits(LEL) | <i>No Data Available</i> |
| Flammable Limits(UEL) | <i>No Data Available</i> |
| Vapor Pressure | <=493.3 Pa [@ 20 °C] |
| Relative Density | 0.99 [<i>Ref Std</i> :WATER=1] |
| Water solubility | <i>No Data Available</i> |
| Solubility- non-water | <i>No Data Available</i> |
| Partition coefficient: n-octanol/ water | <i>No Data Available</i> |
| Evaporation rate | <=0.05 [<i>Ref Std</i> :BUOAC=1] |
| Vapor Density | <i>No Data Available</i> |
| Decomposition temperature | <i>No Data Available</i> |
| Viscosity | 1,000 - 1,200 mPa-s |
| Density | 0.99 g/ml [@ 20 °C] |

9.2. Other information

| | |
|--------------------------------------|--------------------------|
| EU Volatile Organic Compounds | <i>No Data Available</i> |
| Percent volatile | 50 - 65 % weight |

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Sparks and/or flames

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known. | |

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from 3M assessments.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

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

May cause additional health effects (see below).

Skin Contact:

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

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

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:

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.

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 |
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Pine oil | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Pine oil | Ingestion | Rat | LD50 > 2,000 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- | Dermal | Rabbit | LD50 > 8,000 mg/kg |

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| 5238P) | | | |
| Vinyl polymer (New Jersey Trade Secret Registry # 04499600-5238P) | Ingestion | Rat | LD50 > 8,000 mg/kg |
| LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Inhalation-Vapor (4 hours) | Rat | LC50 > 5.2 mg/l |
| LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Carbon black | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| Carbon black | Ingestion | Rat | LD50 > 8,000 mg/kg |
| 1,2,4-TRIMETHYLBENZENE | Dermal | Rabbit | LD50 > 3,160 mg/kg |
| 1,2,4-TRIMETHYLBENZENE | Inhalation-Vapor (4 hours) | Rat | LC50 18 mg/l |
| 1,2,4-TRIMETHYLBENZENE | Ingestion | Rat | LD50 3,400 mg/kg |
| 2,6-DIMETHYL-4-HEPTANONE | Dermal | Rat | LD50 > 2,000 mg/kg |
| 2,6-DIMETHYL-4-HEPTANONE | Inhalation-Vapor (4 hours) | Rat | LC50 > 5 mg/l |
| 2,6-DIMETHYL-4-HEPTANONE | Ingestion | Rat | LD50 5,265 mg/kg |
| Xylene | Dermal | Rabbit | LD50 > 4,200 mg/kg |
| Xylene | Inhalation-Vapor (4 hours) | Rat | LC50 29 mg/l |
| Xylene | Ingestion | Rat | LD50 3,523 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 |
| 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 |
| 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 |
| Oils, orange | Inhalation-Vapor (4 hours) | Mouse | LC50 > 3.14 mg/l |
| Oils, orange | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Oils, orange | Ingestion | Rat | LD50 4,400 mg/kg |
| Naphthalene | Dermal | Human | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Naphthalene | Inhalation-Vapor | Human | LC50 estimated to be 20 - 50 mg/l |
| Naphthalene | Ingestion | Human | LD50 estimated to be 300 - 2,000 mg/kg |
| D-Limonene | Inhalation-Vapor (4 hours) | Mouse | LC50 > 3.14 mg/l |
| D-Limonene | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| D-Limonene | Ingestion | Rat | LD50 4,400 mg/kg |
| Cumene | Dermal | Rabbit | LD50 > 3,160 mg/kg |
| Cumene | Inhalation-Vapor (4 hours) | Rat | LC50 39.4 mg/l |
| Cumene | Ingestion | Rat | LD50 1,400 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 |
| GLYCOLIC ACID, BUTYL ESTER | Dermal | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| GLYCOLIC ACID, BUTYL ESTER | Inhalation-Dust/Mist | Rat | LC50 > 6.2 mg/l |

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| | (4 hours) | | |
| GLYCOLIC ACID, BUTYL ESTER | Ingestion | Rat | LD50 4,595 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|-------------------------------------------------------------------|------------------------|---------------------------|
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Rabbit | Irritant |
| Pine oil | Not available | Irritant |
| 1-methoxy-2-propyl acetate | Rabbit | No significant irritation |
| Cyclohexanone | Rabbit | Irritant |
| Vinyl polymer (New Jersey Trade Secret Registry # 04499600-5238P) | Professional judgement | No significant irritation |
| LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Rabbit | Irritant |
| Carbon black | Rabbit | No significant irritation |
| 1,2,4-TRIMETHYLBENZENE | Rabbit | Irritant |
| 2,6-DIMETHYL-4-HEPTANONE | Rabbit | Minimal irritation |
| Xylene | Rabbit | Mild irritant |
| (3',4'-EPOXYCYCLOHEXYLMETHYL) 3,4-EPOXYCYCLOHEXANECARBOXYLATE | Rabbit | Minimal irritation |
| N-Butyl Methacrylate | Rabbit | Irritant |
| Toluene | Rabbit | Irritant |
| Oils, orange | Rabbit | Mild irritant |
| Naphthalene | Rabbit | Minimal irritation |
| D-Limonene | Rabbit | Mild irritant |
| Cumene | Rabbit | Minimal irritation |
| Ethylbenzene | Rabbit | Mild irritant |
| GLYCOLIC ACID, BUTYL ESTER | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|-------------------------------------------------------------------|------------------------|---------------------------|
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Rabbit | Mild irritant |
| Pine oil | Rabbit | Severe irritant |
| 1-methoxy-2-propyl acetate | Rabbit | Mild irritant |
| Cyclohexanone | Rabbit | Severe irritant |
| Vinyl polymer (New Jersey Trade Secret Registry # 04499600-5238P) | Professional judgement | No significant irritation |
| LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Rabbit | Mild irritant |
| Carbon black | Rabbit | No significant irritation |
| 1,2,4-TRIMETHYLBENZENE | Rabbit | Mild irritant |
| 2,6-DIMETHYL-4-HEPTANONE | Rabbit | No significant irritation |
| Xylene | Rabbit | Mild irritant |
| (3',4'-EPOXYCYCLOHEXYLMETHYL) 3,4-EPOXYCYCLOHEXANECARBOXYLATE | Rabbit | Mild irritant |
| N-Butyl Methacrylate | Rabbit | Mild irritant |
| Toluene | Rabbit | Moderate irritant |
| Oils, orange | Rabbit | Mild irritant |
| Naphthalene | Rabbit | No significant irritation |
| D-Limonene | Rabbit | Mild irritant |
| Cumene | Rabbit | Mild irritant |
| Ethylbenzene | Rabbit | Moderate irritant |
| GLYCOLIC ACID, BUTYL ESTER | Rabbit | Corrosive |

Skin Sensitization

| Name | Species | Value |
|--------------------------------------------|------------|----------------|
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Guinea pig | Not classified |

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| | | |
|---------------------------------------------------------------|------------|----------------|
| Pine oil | Guinea pig | Not classified |
| 1-methoxy-2-propyl acetate | Guinea pig | Not classified |
| Cyclohexanone | Guinea pig | Not classified |
| LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Guinea pig | Not classified |
| 1,2,4-TRIMETHYLBENZENE | Guinea pig | Not classified |
| 2,6-DIMETHYL-4-HEPTANONE | Guinea pig | Not classified |
| (3',4'-EPOXYCYCLOHEXYLMETHYL) 3,4-EPOXYCYCLOHEXANECARBOXYLATE | Guinea pig | Sensitizing |
| N-Butyl Methacrylate | Guinea pig | Sensitizing |
| Toluene | Guinea pig | Not classified |
| Oils, orange | Mouse | Sensitizing |
| D-Limonene | Mouse | Sensitizing |
| Cumene | Guinea pig | Not classified |
| Ethylbenzene | Human | Not classified |
| GLYCOLIC ACID, BUTYL ESTER | Guinea pig | Not classified |

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 |
|---------------------------------------------------------------|----------|------------------------------------------------------------------------------|
| Pine oil | In Vitro | Not mutagenic |
| Pine oil | 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 |
| Carbon black | In Vitro | Not mutagenic |
| Carbon black | In vivo | Some positive data exist, but the data are not sufficient for classification |
| 1,2,4-TRIMETHYLBENZENE | In Vitro | Not mutagenic |
| 2,6-DIMETHYL-4-HEPTANONE | In Vitro | Not mutagenic |
| Xylene | In Vitro | Not mutagenic |
| Xylene | In vivo | Not mutagenic |
| (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 |
| N-Butyl Methacrylate | In Vitro | Not mutagenic |
| N-Butyl Methacrylate | In vivo | Not mutagenic |
| Toluene | In Vitro | Not mutagenic |
| Toluene | In vivo | Not mutagenic |
| Oils, orange | In Vitro | Not mutagenic |
| Oils, orange | In vivo | Not mutagenic |
| D-Limonene | In Vitro | Not mutagenic |
| D-Limonene | In vivo | Not mutagenic |
| Cumene | In Vitro | Not mutagenic |
| Cumene | 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

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| Name | Route | Species | Value |
|---------------------------------------------------------------|------------|-------------------------|------------------------------------------------------------------------------|
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Cyclohexanone | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Inhalation | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Carbon black | Dermal | Mouse | Not carcinogenic |
| Carbon black | Ingestion | Mouse | Not carcinogenic |
| Carbon black | Inhalation | Rat | Carcinogenic |
| Xylene | Dermal | Rat | Not carcinogenic |
| Xylene | Ingestion | Multiple animal species | Not carcinogenic |
| Xylene | Inhalation | Human | Some positive data exist, but the data are not sufficient for classification |
| (3',4'-EPOXYCYCLOHEXYLMETHYL) 3,4-EPOXYCYCLOHEXANECARBOXYLATE | Dermal | Mouse | Not 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 |
| Oils, orange | Ingestion | Rat | Some positive data exist, but the data are not sufficient for classification |
| Naphthalene | Inhalation | Multiple animal species | Carcinogenic |
| D-Limonene | Ingestion | Rat | Some positive data exist, but the data are not sufficient for classification |
| Cumene | Inhalation | Multiple animal species | Carcinogenic |
| Ethylbenzene | Inhalation | Multiple animal species | Carcinogenic |

Reproductive Toxicity
Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|----------------------------|------------|----------------------------------------|---------|-----------------------|--------------------------------|
| Pine oil | Ingestion | Not classified for development | Rat | NOAEL 600 mg/kg/day | during gestation |
| 1-methoxy-2-propyl acetate | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| 1-methoxy-2-propyl acetate | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| 1-methoxy-2-propyl acetate | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| 1-methoxy-2-propyl acetate | Inhalation | Not classified for development | Rat | NOAEL 21.6 mg/l | during organogenesis |
| Cyclohexanone | Inhalation | Not classified for female reproduction | Rat | NOAEL 4 mg/l | 2 generation |
| Cyclohexanone | Inhalation | Not classified for male reproduction | Rat | NOAEL 2 mg/l | 2 generation |
| Cyclohexanone | Ingestion | Not classified for development | Mouse | LOAEL 1,100 mg/kg/day | during organogenesis |
| Cyclohexanone | Inhalation | Not classified for development | Rat | NOAEL 2 mg/l | 2 generation |

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|---------------------------------------------------------------|------------|----------------------------------------|-------------------------|-----------------------|------------------------------|
| LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Inhalation | Not classified for female reproduction | Rat | NOAEL 1,500 ppm | 2 generation |
| LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Inhalation | Not classified for male reproduction | Rat | NOAEL 1,500 ppm | 2 generation |
| LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Inhalation | Not classified for development | Rat | NOAEL 500 ppm | 2 generation |
| 1,2,4-TRIMETHYLBENZENE | Inhalation | Not classified for female reproduction | Rat | NOAEL 1.2 mg/l | 3 months |
| 1,2,4-TRIMETHYLBENZENE | Inhalation | Not classified for male reproduction | Rat | NOAEL 1.2 mg/l | 3 months |
| 1,2,4-TRIMETHYLBENZENE | Inhalation | Not classified for development | Rat | NOAEL 1.5 mg/l | during gestation |
| 2,6-DIMETHYL-4-HEPTANONE | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg | prematemg & during gestation |
| 2,6-DIMETHYL-4-HEPTANONE | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 2 weeks |
| 2,6-DIMETHYL-4-HEPTANONE | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | prematemg & during gestation |
| Xylene | Inhalation | Not classified for female reproduction | Human | NOAEL Not available | occupational exposure |
| Xylene | Ingestion | Not classified for development | Mouse | NOAEL Not available | during organogenesis |
| Xylene | Inhalation | Not classified for development | Multiple animal species | NOAEL Not available | during gestation |
| (3',4'-EPOXYCYCLOHEXYLMETHYL) 3,4-EPOXYCYCLOHEXANECARBOXYLATE | Ingestion | Not classified for development | Rat | NOAEL 125 mg/kg/day | during gestation |
| N-Butyl Methacrylate | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 44 days |
| N-Butyl Methacrylate | Ingestion | Not classified for female reproduction | Rat | NOAEL 300 mg/kg/day | prematemg & during gestation |
| N-Butyl Methacrylate | Ingestion | Not classified for development | Rabbit | NOAEL 300 mg/kg/day | during gestation |
| N-Butyl Methacrylate | Inhalation | Not classified for development | Rat | NOAEL 1.8 mg/l | during gestation |
| Toluene | Inhalation | Not classified for female reproduction | Human | NOAEL Not available | occupational exposure |
| Toluene | Inhalation | Not classified for male reproduction | Rat | NOAEL 2.3 mg/l | 1 generation |
| Toluene | Ingestion | Toxic to development | Rat | LOAEL 520 mg/kg/day | during gestation |
| Toluene | Inhalation | Toxic to development | Human | NOAEL Not available | poisoning and/or abuse |
| Oils, orange | Ingestion | Not classified for female reproduction | Rat | NOAEL 750 mg/kg/day | prematemg & during gestation |
| Oils, orange | Ingestion | Not classified for development | Multiple animal species | NOAEL 591 mg/kg/day | during organogenesis |
| D-Limonene | Ingestion | Not classified for female reproduction | Rat | NOAEL 750 mg/kg/day | prematemg & during gestation |
| D-Limonene | Ingestion | Not classified for development | Multiple animal species | NOAEL 591 mg/kg/day | during organogenesis |
| Cumene | Inhalation | Not classified for development | Rabbit | NOAEL 11.3 mg/l | during organogenesis |
| Ethylbenzene | Inhalation | Not classified for development | Rat | NOAEL 4.3 mg/l | prematemg & during gestation |
| GLYCOLIC ACID, BUTYL ESTER | Ingestion | Toxic to development | Rat | NOAEL 250 | during |

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|--|--|--|--|-----------|---------------|
| | | | | mg/kg/day | organogenesis |
|--|--|--|--|-----------|---------------|

Lactation

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

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|--------------------------------------------|------------|-----------------------------------|------------------------------------------------------------------------------|-------------------------|---------------------|-------------------|
| 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 | |
| Pine oil | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Not available | NOAEL Not available | |
| Pine oil | Ingestion | central nervous system depression | Not classified | | NOAEL Not available | |
| 1-methoxy-2-propyl acetate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| Cyclohexanone | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Guinea pig | LOAEL 16.1 mg/l | 6 hours |
| Cyclohexanone | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Cyclohexanone | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Professional judgement | NOAEL Not available | |
| LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| 1,2,4-TRIMETHYLBENZENE | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| 1,2,4-TRIMETHYLBENZENE | Inhalation | respiratory irritation | May cause respiratory irritation | official classification | NOAEL Not available | |
| 1,2,4-TRIMETHYLBENZENE | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| 2,6-DIMETHYL-4-HEPTANONE | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Rat | NOAEL Not available | |
| 2,6-DIMETHYL-4-HEPTANONE | Inhalation | respiratory irritation | May cause respiratory irritation | Human | NOAEL Not available | |

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|----------------------------|------------|-----------------------------------|------------------------------------------------------------------------------|-------------------------|---------------------|------------------------|
| 2,6-DIMETHYL-4-HEPTANONE | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Rat | NOAEL Not available | |
| Xylene | Inhalation | auditory system | Causes damage to organs | Rat | LOAEL 6.3 mg/l | 8 hours |
| Xylene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Xylene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Xylene | Inhalation | eyes | Not classified | Rat | NOAEL 3.5 mg/l | not available |
| Xylene | Inhalation | liver | Not classified | Multiple animal species | NOAEL Not available | |
| Xylene | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Multiple animal species | NOAEL Not available | |
| Xylene | Ingestion | eyes | Not classified | Rat | NOAEL 250 mg/kg | not applicable |
| N-Butyl Methacrylate | Inhalation | respiratory irritation | May cause respiratory irritation | | NOAEL Not available | |
| Toluene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Toluene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Toluene | Inhalation | immune system | Not classified | Mouse | NOAEL 0.004 mg/l | 3 hours |
| Toluene | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |
| Oils, orange | Ingestion | nervous system | Not classified | | NOAEL Not available | |
| Naphthalene | Ingestion | blood | Causes damage to organs | Human | NOAEL Not available | poisoning and/or abuse |
| D-Limonene | Ingestion | nervous system | Not classified | | NOAEL Not available | |
| Cumene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Multiple animal species | NOAEL Not available | not available |
| Cumene | Inhalation | respiratory irritation | May cause respiratory irritation | Human | LOAEL 0.2 mg/l | occupational exposure |
| Cumene | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Multiple animal species | NOAEL Not available | not available |
| 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 judgment | NOAEL Not available | |
| GLYCOLIC ACID, BUTYL ESTER | Inhalation | respiratory irritation | May cause respiratory irritation | Rat | NOAEL 0.4 mg/l | 4 hours |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|----------------------------|------------|-----------------------|----------------|-------------------------|-----------------|-------------------|
| 1-methoxy-2-propyl acetate | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 16.2 mg/l | 9 days |
| 1-methoxy-2-propyl acetate | Inhalation | olfactory system | Not classified | Mouse | LOAEL 1.62 mg/l | 9 days |
| 1-methoxy-2-propyl acetate | Inhalation | blood | Not classified | Multiple animal species | NOAEL 16.2 mg/l | 9 days |
| 1-methoxy-2-propyl | Ingestion | endocrine system | Not classified | Rat | NOAEL | 44 days |

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|--------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------|-----------------------|-----------------------|
| acetate | | | | | 1,000 mg/kg/day | |
| Cyclohexanone | Inhalation | liver kidney and/or bladder | Not classified | Rabbit | NOAEL 0.76 mg/l | 50 days |
| Cyclohexanone | Ingestion | liver | Not classified | Mouse | NOAEL 4,800 mg/kg/day | 90 days |
| Carbon black | Inhalation | pneumoconiosis | Not classified | Human | NOAEL Not available | occupational exposure |
| 1,2,4-TRIMETHYLBENZENE | Inhalation | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 0.5 mg/l | 3 months |
| 1,2,4-TRIMETHYLBENZENE | Inhalation | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 0.1 mg/l | 3 months |
| 1,2,4-TRIMETHYLBENZENE | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |
| 1,2,4-TRIMETHYLBENZENE | Inhalation | liver kidney and/or bladder heart endocrine system gastrointestinal tract immune system | Not classified | Rat | NOAEL 1.2 mg/l | 3 months |
| 1,2,4-TRIMETHYLBENZENE | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 600 mg/kg/day | 14 days |
| 1,2,4-TRIMETHYLBENZENE | Ingestion | liver immune system kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 2,6-DIMETHYL-4-HEPTANONE | Inhalation | liver kidney and/or bladder respiratory system | Not classified | Rat | NOAEL 5.4 mg/l | 6 weeks |
| 2,6-DIMETHYL-4-HEPTANONE | Inhalation | blood | Not classified | Rat | NOAEL 5.3 mg/l | 9 days |
| 2,6-DIMETHYL-4-HEPTANONE | Inhalation | endocrine system hematopoietic system | Not classified | Rat | NOAEL 9.6 mg/l | 6 weeks |
| 2,6-DIMETHYL-4-HEPTANONE | Ingestion | heart endocrine system liver nervous system | Not classified | Rat | NOAEL 2,000 mg/kg/day | 90 days |
| 2,6-DIMETHYL-4-HEPTANONE | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 2,000 mg/kg | 90 days |
| 2,6-DIMETHYL-4-HEPTANONE | Ingestion | blood | Not classified | Rat | NOAEL 4,000 mg/kg/day | 3 weeks |
| Xylene | Inhalation | nervous system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.4 mg/l | 4 weeks |
| Xylene | Inhalation | auditory system | May cause damage to organs though prolonged or repeated exposure | Rat | LOAEL 7.8 mg/l | 5 days |
| Xylene | Inhalation | liver | Not classified | Multiple animal species | NOAEL Not available | |
| Xylene | Inhalation | heart endocrine system gastrointestinal tract hematopoietic system muscles kidney and/or bladder respiratory system | Not classified | Multiple animal species | NOAEL 3.5 mg/l | 13 weeks |
| Xylene | Ingestion | auditory system | Not classified | Rat | NOAEL 900 mg/kg/day | 2 weeks |
| Xylene | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,500 mg/kg/day | 90 days |
| Xylene | Ingestion | liver | Not classified | Multiple animal species | NOAEL Not available | |

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|-----------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------|-----------------------|------------------------|
| Xylene | Ingestion | heart skin endocrine system bone, teeth, nails, and/or hair hematopoietic system immune system nervous system respiratory system | Not classified | Mouse | NOAEL 1,000 mg/kg/day | 103 weeks |
| (3',4'-EPOXYCYCLOHEXYL METHYL) 3,4-EPOXYCYCLOHEXANE CARBOXYLATE | Ingestion | olfactory system | May cause damage to organs though prolonged or repeated exposure | Rat | NOAEL 5 mg/kg/day | 90 days |
| (3',4'-EPOXYCYCLOHEXYL METHYL) 3,4-EPOXYCYCLOHEXANE CARBOXYLATE | Ingestion | liver kidney and/or bladder hematopoietic system | Not classified | Rat | NOAEL 500 mg/kg/day | 90 days |
| (3',4'-EPOXYCYCLOHEXYL METHYL) 3,4-EPOXYCYCLOHEXANE CARBOXYLATE | Ingestion | endocrine system respiratory system | Not classified | Rat | NOAEL 1,113 mg/kg/day | 14 days |
| N-Butyl Methacrylate | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 11 mg/l | 28 days |
| N-Butyl Methacrylate | Inhalation | olfactory system | Not classified | Rat | NOAEL 1.8 mg/l | 28 days |
| N-Butyl Methacrylate | Inhalation | heart endocrine system hematopoietic system liver nervous system respiratory system | Not classified | Rat | NOAEL 11 mg/l | 28 days |
| N-Butyl Methacrylate | Ingestion | olfactory system | Not classified | Rat | NOAEL 60 mg/kg/day | 90 days |
| N-Butyl Methacrylate | Ingestion | endocrine system hematopoietic system liver nervous system kidney and/or bladder heart immune system | Not classified | Rat | NOAEL 360 mg/kg/day | 90 days |
| Toluene | Inhalation | auditory system nervous system eyes olfactory system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse |
| Toluene | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 2.3 mg/l | 15 months |
| Toluene | Inhalation | heart liver kidney and/or bladder | Not classified | Rat | NOAEL 11.3 mg/l | 15 weeks |
| Toluene | Inhalation | endocrine system | Not classified | Rat | NOAEL 1.1 mg/l | 4 weeks |
| Toluene | Inhalation | immune system | Not classified | Mouse | NOAEL Not available | 20 days |
| Toluene | Inhalation | bone, teeth, nails, and/or hair | Not classified | Mouse | NOAEL 1.1 mg/l | 8 weeks |
| Toluene | Inhalation | hematopoietic system vascular system | Not classified | Human | NOAEL Not available | occupational exposure |
| Toluene | Inhalation | gastrointestinal tract | Not classified | Multiple animal species | NOAEL 11.3 mg/l | 15 weeks |
| Toluene | Ingestion | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 625 mg/kg/day | 13 weeks |
| Toluene | Ingestion | heart | Not classified | Rat | NOAEL | 13 weeks |

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|--------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------|-----------------------|------------------------|
| | | | | | 2,500 mg/kg/day | |
| Toluene | Ingestion | liver kidney and/or bladder | Not classified | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks |
| Toluene | Ingestion | hematopoietic system | Not classified | Mouse | NOAEL 600 mg/kg/day | 14 days |
| Toluene | Ingestion | endocrine system | Not classified | Mouse | NOAEL 105 mg/kg/day | 28 days |
| Toluene | Ingestion | immune system | Not classified | Mouse | NOAEL 105 mg/kg/day | 4 weeks |
| Oils, orange | Ingestion | kidney and/or bladder | Not classified | Rat | LOAEL 75 mg/kg/day | 103 weeks |
| Oils, orange | Ingestion | liver | Not classified | Mouse | NOAEL 1,000 mg/kg/day | 103 weeks |
| Oils, orange | Ingestion | heart endocrine system bone, teeth, nails, and/or hair hematopoietic system immune system muscles nervous system respiratory system | Not classified | Rat | NOAEL 600 mg/kg/day | 103 weeks |
| Naphthalene | Dermal | blood | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse |
| Naphthalene | Dermal | eyes | Not classified | Human | NOAEL Not available | occupational exposure |
| Naphthalene | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.01 mg/l | 13 weeks |
| Naphthalene | Inhalation | blood | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse |
| Naphthalene | Inhalation | eyes | Not classified | Human | NOAEL Not available | occupational exposure |
| Naphthalene | Ingestion | blood | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse |
| Naphthalene | Ingestion | eyes | May cause damage to organs though prolonged or repeated exposure | Rabbit | LOAEL 500 mg/kg/day | 15 days |
| D-Limonene | Ingestion | kidney and/or bladder | Not classified | Rat | LOAEL 75 mg/kg/day | 103 weeks |
| D-Limonene | Ingestion | liver | Not classified | Mouse | NOAEL 1,000 mg/kg/day | 103 weeks |
| D-Limonene | Ingestion | heart endocrine system bone, teeth, nails, and/or hair hematopoietic system immune system muscles nervous system respiratory system | Not classified | Rat | NOAEL 600 mg/kg/day | 103 weeks |
| Cumene | Inhalation | auditory system endocrine system hematopoietic system liver nervous system eyes | Not classified | Rat | NOAEL 59 mg/l | 13 weeks |
| Cumene | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 4.9 mg/l | 13 weeks |
| Cumene | Inhalation | respiratory system | Not classified | Rat | NOAEL 59 mg/l | 13 weeks |
| Cumene | Ingestion | kidney and/or bladder heart endocrine system hematopoietic system liver respiratory system | Not classified | Rat | NOAEL 769 mg/kg/day | 6 months |

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|----------------------------|------------|--------------------------------------------|------------------------------------------------------------------------------|-------------------------|---------------------|-----------|
| Ethylbenzene | Inhalation | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1.1 mg/l | 2 years |
| Ethylbenzene | Inhalation | liver | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL 1.1 mg/l | 103 weeks |
| Ethylbenzene | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 3.4 mg/l | 28 days |
| Ethylbenzene | Inhalation | auditory system | Not classified | Rat | NOAEL 2.4 mg/l | 5 days |
| Ethylbenzene | Inhalation | endocrine system | Not classified | Mouse | NOAEL 3.3 mg/l | 103 weeks |
| Ethylbenzene | Inhalation | gastrointestinal tract | Not classified | Rat | NOAEL 3.3 mg/l | 2 years |
| Ethylbenzene | Inhalation | bone, teeth, nails, and/or hair muscles | Not classified | Multiple animal species | NOAEL 4.2 mg/l | 90 days |
| Ethylbenzene | Inhalation | heart immune system respiratory system | Not classified | Multiple animal species | NOAEL 3.3 mg/l | 2 years |
| Ethylbenzene | Ingestion | liver kidney and/or bladder | Not classified | Rat | NOAEL 680 mg/kg/day | 6 months |
| GLYCOLIC ACID, BUTYL ESTER | Ingestion | blood kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 100 mg/kg/day | 90 days |

Aspiration Hazard

| Name | Value |
|--------------------------------------------|------------------------------------------------------------------------------|
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Aspiration hazard |
| LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Aspiration hazard |
| 1,2,4-TRIMETHYLBENZENE | Aspiration hazard |
| 2,6-DIMETHYL-4-HEPTANONE | Some positive data exist, but the data are not sufficient for classification |
| Xylene | Aspiration hazard |
| Toluene | Aspiration hazard |
| Oils, orange | Aspiration hazard |
| D-Limonene | Aspiration hazard |
| Cumene | 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

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

12.1. Toxicity

No product test data available

| Material | CAS # | Organism | Type | Exposure | Test Endpoint | Test Result |
|--------------------------------------------|------------|---------------|--------------|----------|------------------------------|-------------|
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | 64742-94-5 | Water flea | Experimental | 48 hours | Effect Concentration 50% | 0.95 mg/l |
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | 64742-94-5 | Rainbow Trout | Experimental | 96 hours | Lethal Concentration 50% | 2.34 mg/l |
| HEAVY AROMATIC SOLVENT NAPHTHA | 64742-94-5 | Green Algae | Experimental | 96 hours | Inhibitory Concentration 50% | 4.2 mg/l |

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|-------------------------------------------------------------------|--------------|----------------|-------------------------------------------------------|----------|--------------------------|-------------|
| (PETROLEUM) | | | | | | |
| Pine oil | 8002-09-3 | | Data not available or insufficient for classification | | | |
| 1-methoxy-2-propyl acetate | 108-65-6 | Water flea | Experimental | 48 hours | Effect Concentration 50% | 370 mg/l |
| 1-methoxy-2-propyl acetate | 108-65-6 | Green algae | Experimental | 72 hours | Effect Concentration 50% | >1,000 mg/l |
| 1-methoxy-2-propyl acetate | 108-65-6 | Rainbow Trout | Experimental | 96 hours | Lethal Concentration 50% | 134 mg/l |
| 1-methoxy-2-propyl acetate | 108-65-6 | Water flea | Experimental | 21 days | No obs Effect Conc | 100 mg/l |
| 1-methoxy-2-propyl acetate | 108-65-6 | Green algae | Experimental | 72 hours | No obs Effect Conc | 1,000 mg/l |
| Cyclohexanone | 108-94-1 | Water flea | Experimental | 24 hours | Effect Concentration 50% | 800 mg/l |
| Cyclohexanone | 108-94-1 | Algae | Experimental | 72 hours | Effect Concentration 50% | 32.9 mg/l |
| Cyclohexanone | 108-94-1 | Fathead Minnow | Experimental | 96 hours | Lethal Concentration 50% | 527 mg/l |
| Cyclohexanone | 108-94-1 | Algae | Experimental | 72 hours | Effect Concentration 10% | 3.56 mg/l |
| Vinyl polymer (New Jersey Trade Secret Registry # 04499600-5238P) | Trade Secret | | Data not available or insufficient for classification | | | |
| LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM) | 64742-95-6 | | Data not available or insufficient for classification | | | |
| 1,2,4-TRIMETHYLBENZENE | 95-63-6 | Fathead Minnow | Experimental | 96 hours | Lethal Concentration 50% | 7.72 mg/l |
| 1,2,4-TRIMETHYLBENZENE | 95-63-6 | Water flea | Experimental | 48 hours | Effect Concentration 50% | 3.6 mg/l |
| 1,2,4-TRIMETHYLBENZENE | 95-63-6 | Mysid Shrimp | Experimental | 96 hours | Lethal Concentration 50% | 2 mg/l |
| Carbon black | 1333-86-4 | | Data not available or insufficient for classification | | | |
| Xylene | 1330-20-7 | | Data not available or insufficient for classification | | | |
| 2,6-DIMETHYL-4-HEPTANONE | 108-83-8 | Water flea | Experimental | 48 hours | Effect Concentration 50% | 37.2 mg/l |
| 2,6-DIMETHYL-4-HEPTANONE | 108-83-8 | Rainbow Trout | Experimental | 96 hours | Lethal Concentration 50% | 30 mg/l |
| 2,6-DIMETHYL-4-HEPTANONE | 108-83-8 | Green Algae | Experimental | 72 hours | Effect Concentration 50% | 46.9 mg/l |
| 2,6-DIMETHYL-4-HEPTANONE | 108-83-8 | Green Algae | Experimental | 72 hours | No obs Effect Conc | 3.55 mg/l |
| (3',4'-EPOXYCYCLOHEXYLMETHYL) 3,4-EPOXYCYCLOHEXANECARBOXYLATE | 2386-87-0 | Water flea | Experimental | 48 hours | Effect Concentration 50% | 40 mg/l |
| (3',4'-EPOXYCYCLOHEXYLMETHYL) 3,4-EPOXYCYCLOHEXANECARBOXYLATE | 2386-87-0 | Rainbow Trout | Experimental | 96 hours | Lethal Concentration 50% | 24 mg/l |
| (3',4'-EPOXYCYCLOHEXYLMETHYL) 3,4-EPOXYCYCLOHEXANECARBOXYLATE | 2386-87-0 | Green Algae | Experimental | 72 hours | Effect Concentration 50% | >110 mg/l |

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|---------------------------------------------------------------|-----------|----------------|--------------|----------|--------------------------|------------|
| (3',4'-EPOXYCYCLOHEXYLMETHYL) 3,4-EPOXYCYCLOHEXANECARBOXYLATE | 2386-87-0 | Green Algae | Experimental | 72 hours | No obs Effect Conc | 30 mg/l |
| N-Butyl Methacrylate | 97-88-1 | Green Algae | Experimental | 72 hours | Effect Concentration 50% | 31.2 mg/l |
| N-Butyl Methacrylate | 97-88-1 | Ricefish | Experimental | 96 hours | Lethal Concentration 50% | 5.6 mg/l |
| N-Butyl Methacrylate | 97-88-1 | Water flea | Experimental | 48 hours | Effect Concentration 50% | 25 mg/l |
| N-Butyl Methacrylate | 97-88-1 | Water flea | Experimental | 21 days | No obs Effect Conc | 1.1 mg/l |
| N-Butyl Methacrylate | 97-88-1 | Green Algae | Experimental | 72 hours | No obs Effect Conc | 24.8 mg/l |
| Naphthalene | 91-20-3 | Water flea | Experimental | 48 hours | Effect Concentration 50% | 1.6 mg/l |
| Naphthalene | 91-20-3 | Diatom | Experimental | 72 hours | Effect Concentration 50% | 0.4 mg/l |
| Naphthalene | 91-20-3 | Rainbow Trout | Experimental | 96 hours | Lethal Concentration 50% | 0.11 mg/l |
| Naphthalene | 91-20-3 | Fish other | Experimental | 40 days | No obs Effect Conc | 0.12 mg/l |
| Oils, orange | 8008-57-9 | Green algae | Estimated | 72 hours | Effect Concentration 50% | 0.32 mg/l |
| Oils, orange | 8008-57-9 | Fathead Minnow | Estimated | 96 hours | Lethal Concentration 50% | 0.702 mg/l |
| Oils, orange | 8008-57-9 | Water flea | Estimated | 48 hours | Effect Concentration 50% | 0.307 mg/l |
| Oils, orange | 8008-57-9 | Water flea | Estimated | 21 days | No obs Effect Conc | 0.08 mg/l |
| Oils, orange | 8008-57-9 | Green algae | Estimated | 72 hours | Effect Concentration 10% | 0.174 mg/l |
| Oils, orange | 8008-57-9 | Fathead Minnow | Estimated | 8 days | No obs Effect Conc | 0.059 mg/l |
| Toluene | 108-88-3 | Fish other | Experimental | 96 hours | Lethal Concentration 50% | 6.41 mg/l |
| Toluene | 108-88-3 | Green Algae | Experimental | 72 hours | Effect Concentration 50% | 12.5 mg/l |
| Toluene | 108-88-3 | Coho Salmon | Experimental | 96 hours | Lethal Concentration 50% | 5.5 mg/l |
| Toluene | 108-88-3 | Water flea | Experimental | 48 hours | Effect Concentration 50% | 3.78 mg/l |
| Toluene | 108-88-3 | Water flea | Experimental | 7 days | No obs Effect Conc | 0.74 mg/l |
| Toluene | 108-88-3 | Coho salmon | Experimental | 40 days | No obs Effect Conc | 1.39 mg/l |
| Cumene | 98-82-8 | Rainbow Trout | Experimental | 96 hours | Lethal Concentration 50% | 4.8 mg/l |
| Cumene | 98-82-8 | Mysid Shrimp | Experimental | 96 hours | Effect Concentration 50% | 1.3 mg/l |
| Cumene | 98-82-8 | Green algae | Experimental | 72 hours | Effect Concentration 50% | 2.6 mg/l |
| Cumene | 98-82-8 | Green algae | Experimental | 72 hours | No obs Effect Conc | 0.22 mg/l |
| Cumene | 98-82-8 | Water flea | Experimental | 21 days | No obs Effect Conc | 0.35 mg/l |
| D-Limonene | 5989-27-5 | Fathead Minnow | Experimental | 96 hours | Lethal Concentration 50% | 0.702 mg/l |
| D-Limonene | 5989-27-5 | Green Algae | Experimental | 72 hours | Effect Concentration 50% | 0.32 mg/l |
| D-Limonene | 5989-27-5 | Water flea | Experimental | 48 hours | Effect Concentration 50% | 0.307 mg/l |
| D-Limonene | 5989-27-5 | Water flea | Experimental | 21 days | No obs Effect Conc | 0.08 mg/l |
| D-Limonene | 5989-27-5 | Green Algae | Experimental | 72 hours | Effect Concentration 10% | 0.174 mg/l |

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|----------------------------|-----------|---------------------|--------------|----------|--------------------------|-----------|
| Ethylbenzene | 100-41-4 | Water flea | Experimental | 48 hours | Effect Concentration 50% | 1.8 mg/l |
| Ethylbenzene | 100-41-4 | Rainbow Trout | Experimental | 96 hours | Lethal Concentration 50% | 4.2 mg/l |
| Ethylbenzene | 100-41-4 | Mysid Shrimp | Experimental | 96 hours | Lethal Concentration 50% | 2.6 mg/l |
| Ethylbenzene | 100-41-4 | Atlantic Silverside | Experimental | 96 hours | Lethal Concentration 50% | 5.1 mg/l |
| Ethylbenzene | 100-41-4 | Green Algae | Experimental | 96 hours | Effect Concentration 50% | 3.6 mg/l |
| Ethylbenzene | 100-41-4 | Water flea | Experimental | 7 days | No obs Effect Conc | 0.96 mg/l |
| GLYCOLIC ACID, BUTYL ESTER | 7397-62-8 | Water flea | Experimental | 24 hours | Effect Concentration 50% | 280 mg/l |

12.2. Persistence and degradability

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|-------------------------------------------------------------------|--------------|-------------------------------|----------|-------------------------------|--------------------|--------------------------------|
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | 64742-94-5 | Estimated Photolysis | | Photolytic half-life (in air) | 2.1 days (t 1/2) | Other methods |
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | 64742-94-5 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 39 % weight | OECD 301D - Closed Bottle Test |
| Pine oil | 8002-09-3 | Data not availbl-insufficient | | | n/a | |
| 1-methoxy-2-propyl acetate | 108-65-6 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 87.2 % BOD/ThBOD | OECD 301C - MITI (I) |
| Cyclohexanone | 108-94-1 | Experimental Biodegradation | 14 days | Biological Oxygen Demand | 87 % BOD/ThBOD | OECD 301C - MITI (I) |
| Vinyl polymer (New Jersey Trade Secret Registry # 04499600-5238P) | Trade Secret | Data not availbl-insufficient | | | N/A | |
| LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM) | 64742-95-6 | Data not availbl-insufficient | | | N/A | |
| 1,2,4-TRIMETHYLBENZENE | 95-63-6 | Experimental Photolysis | | Photolytic half-life (in air) | 11.8 hours (t 1/2) | Other methods |
| 1,2,4-TRIMETHYLBENZENE | 95-63-6 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | >60 % weight | OECD 301F - Manometric Respiro |
| Carbon black | 1333-86-4 | Data not availbl-insufficient | | | N/A | |
| Xylene | 1330-20-7 | Data not availbl-insufficient | | | N/A | |
| 2,6-DIMETHYL-4-HEPTANONE | 108-83-8 | Experimental Biodegradation | 20 days | Biological Oxygen Demand | 88 % BOD/ThBOD | Other methods |
| (3',4'-EPOXYCYCLOHEXYLM ETHYL) 3,4-EPOXYCYCLOHEXANE CARBOXYLATE | 2386-87-0 | Experimental Hydrolysis | | Hydrolytic half-life | 47 hours (t 1/2) | Other methods |
| (3',4'-EPOXYCYCLOHEXYLM ETHYL) 3,4-EPOXYCYCLOHEXANE CARBOXYLATE | 2386-87-0 | Experimental Biodegradation | 28 days | Carbon dioxide evolution | 71 % weight | OECD 301B - Mod. Sturm or CO2 |
| N-Butyl Methacrylate | 97-88-1 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 88 % BOD/ThBOD | OECD 301C - MITI (I) |
| Naphthalene | 91-20-3 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | >74 % BOD/ThBOD | OECD 301C - MITI (I) |
| Oils, orange | 8008-57-9 | Estimated Photolysis | | Photolytic half-life (in air) | 2.5 hours (t 1/2) | Other methods |
| Oils, orange | 8008-57-9 | Estimated Biodegradation | 14 days | Biological Oxygen Demand | 98 % BOD/ThBOD | OECD 301C - MITI (I) |
| Toluene | 108-88-3 | Experimental Photolysis | | Photolytic half-life (in air) | 5.2 days (t 1/2) | Other methods |

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|----------------------------|-----------|-----------------------------|---------|-------------------------------|-------------------|-------------------------------|
| Toluene | 108-88-3 | Experimental Biodegradation | 20 days | Biological Oxygen Demand | 80 % weight | |
| Cumene | 98-82-8 | Experimental Photolysis | | Photolytic half-life (in air) | 4.5 days (t 1/2) | Other methods |
| Cumene | 98-82-8 | Experimental Biodegradation | 14 days | Biological Oxygen Demand | 33 % weight | OECD 301C - MITI (I) |
| D-Limonene | 5989-27-5 | Experimental Biodegradation | 14 days | Biological Oxygen Demand | 98 % BOD/ThBOD | OECD 301C - MITI (I) |
| Ethylbenzene | 100-41-4 | Experimental Photolysis | | Photolytic half-life (in air) | 4.26 days (t 1/2) | Other methods |
| Ethylbenzene | 100-41-4 | Experimental Biodegradation | 28 days | Carbon dioxide evolution | 70-80 % weight | Other methods |
| GLYCOLIC ACID, BUTYL ESTER | 7397-62-8 | Experimental Biodegradation | 28 days | Carbon dioxide evolution | 81 % weight | OECD 301B - Mod. Sturm or CO2 |

12.3. Bioaccumulative potential

| Material | Cas No. | Test Type | Duration | Study Type | Test Result | Protocol |
|-------------------------------------------------------------------|--------------|-------------------------------------------------------|----------|--------------------------------|-------------|--------------------------------|
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | 64742-94-5 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | 6.1 | Other methods |
| Pine oil | 8002-09-3 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 1-methoxy-2-propyl acetate | 108-65-6 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | 0.36 | Other methods |
| Cyclohexanone | 108-94-1 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | 0.86 | Other methods |
| Vinyl polymer (New Jersey Trade Secret Registry # 04499600-5238P) | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM) | 64742-95-6 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 1,2,4-TRIMETHYLBENZENE | 95-63-6 | Experimental BCF - Carp | 56 days | Bioaccumulation Factor | <=275 | OECD 305E-Bioaccum Fl-thru fis |
| Carbon black | 1333-86-4 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Xylene | 1330-20-7 | Experimental BCF - Rainbow Tr | 56 days | Bioaccumulation Factor | 14 | Other methods |
| 2,6-DIMETHYL-4-HEPTANONE | 108-83-8 | Estimated Bioconcentration | | Bioaccumulation Factor | 3.7 | Est: Bioconcentration factor |
| (3',4'-EPOXYCYCLOHEXYLM ETHYL) 3,4-EPOXYCYCLOHEXANE CARBOXYLATE | 2386-87-0 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | 1.34 | Other methods |
| N-Butyl Methacrylate | 97-88-1 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | 2.88 | Other methods |
| Naphthalene | 91-20-3 | Experimental BCF - Carp | 56 days | Bioaccumulation Factor | 36.5-168 | OECD 305E-Bioaccum Fl-thru fis |
| Oils, orange | 8008-57-9 | Estimated Bioconcentration | | Bioaccumulation Factor | 2100 | Other methods |
| Toluene | 108-88-3 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | 2.73 | Other methods |
| Cumene | 98-82-8 | Estimated Bioconcentration | | Bioaccumulation Factor | 140 | Other methods |
| D-Limonene | 5989-27-5 | Estimated Bioconcentration | | Bioaccumulation Factor | 2100 | Est: Bioconcentration factor |
| Ethylbenzene | 100-41-4 | Experimental BCF - Other | 42 days | Bioaccumulation Factor | 1 | Other methods |

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|-------------------------------|-----------|-------------------------------|--|---------------------------|-----|------------------------------|
| GLYCOLIC ACID, BUTYL ESTER | 7397-62-8 | Estimated Bioconcentration | | Bioaccumulation Factor | 2.8 | Est: Bioconcentration factor |
|-------------------------------|-----------|-------------------------------|--|---------------------------|-----|------------------------------|

12.4. Mobility in soil

Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

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

12.6. Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

Incinerate in a permitted waste incineration facility. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

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

EU waste code (product as sold)

080111* Waste paint and varnish containing organic solvents or other dangerous substances

SECTION 14: Transportation information

ADR: UN1210; Printing Ink; 3; III; (E); F1.

IMDG: UN1210; Printing Ink; 3; III; EMS: FE, SD.

IATA: UN1210; Printing Ink; 3; III.

SECTION 15: Regulatory information

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

Carcinogenicity

| <u>Ingredient</u> | <u>C.A.S. No.</u> | <u>Classification</u> | <u>Regulation</u> |
|-------------------|-------------------|-------------------------------|---------------------------------------------|
| Carbon black | 1333-86-4 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Cumene | 98-82-8 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Cyclohexanone | 108-94-1 | Gr. 3: Not classifiable | International Agency for Research on Cancer |
| D-Limonene | 5989-27-5 | Gr. 3: Not classifiable | International Agency for Research on Cancer |
| Ethylbenzene | 100-41-4 | Grp. 2B: Possible human | International Agency |

| | | | |
|-------------|-----------|----------------------------------|-----------------------------------------------------------------------|
| Naphthalene | 91-20-3 | carc. Carc. 2 | for Research on Cancer Regulation (EC) No. 1272/2008, Table 3.1 |
| Naphthalene | 91-20-3 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Toluene | 108-88-3 | Gr. 3: Not classifiable | International Agency for Research on Cancer |
| Xylene | 1330-20-7 | Gr. 3: Not classifiable | International Agency for Research on Cancer |

Global inventory status

Contact 3M for more information. The components of this product are in compliance with the new substance notification requirements of CEPA. The components of this product are in compliance with the chemical notification requirements of TSCA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory.

SECTION 16: Other information**List of relevant H statements**

| | |
|-------|--------------------------------------------------------------------|
| H225 | Highly flammable liquid and vapor. |
| H226 | Flammable liquid and vapor. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer. |
| H361d | Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Revision information:

Section 02: CLP Ingredient table information was modified.
Section 02: Label Elements: CLP Percent Unknown information was modified.
Section 02: Label Elements: CLP Precautionary - Prevention information was modified.
Section 02: List of sensitizers information was modified.
Section 03: Composition/ Information of ingredients table information was modified.
Section 05: Fire - Advice for fire fighters information information was modified.
Section 06: Accidental release clean-up information information was modified.
Section 08: Occupational exposure limit table information was modified.
Section 09: Property description for optional properties information was modified.
Section 11: Acute Toxicity table information was modified.
Section 11: Aspiration Hazard Table information was modified.
Section 11: Carcinogenicity Table information was modified.
Section 11: Germ Cell Mutagenicity Table information was modified.
Section 11: Health Effects - Skin information information was modified.

Section 11: Reproductive Toxicity Table information was modified.
Section 11: Serious Eye Damage/Irritation Table information was modified.
Section 11: Skin Corrosion/Irritation Table information was modified.
Section 11: Skin Sensitization Table information was modified.
Section 11: Target Organs - Repeated Table information was modified.
Section 11: Target Organs - Single Table information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: No PBT/vPvB information available warning information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12: Biocumulative potential information information was modified.
Section 13: Standard Phrase Category Waste GHS information was modified.
Section 14: Transportation classification information was modified.
Section 15: Carcinogenicity information information was modified.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

3M Israel SDSs are available at www.3M.com/il