



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Malaysia Occupational Safety and Health (Chemical Classification, Labelling and Safety Data Sheets) Regulations 2013.

SECTION 1: Identification

1.1. Product identifier

3M™ Plastic Adhesive 2262

Product Identification Numbers

| | | | | |
|----------------|----------------|----------------|----------------|----------------|
| 62-2262-6530-4 | 62-2262-6535-3 | 62-2262-8530-2 | 62-2262-9530-1 | JG-4400-2262-6 |
| JS-3000-4976-9 | JS-3000-4979-3 | | | |

1.2. Recommended use and restrictions on use

Recommended use

Adhesive, Industrial use

1.3. Supplier's details

| | |
|-------------------|--|
| ADDRESS: | 3M Malaysia Sdn. Bhd., Level 8, Block F, Oasis Square, No.2, Jalan PJU 1A/7A, Ara Damansara 47301 Petaling, Jaya, Selangor |
| Telephone: | 03-7884 2888 |
| E Mail: | 3mmyehsr@mmm.com |
| Website: | www.3M.com.my |

1.4. Emergency telephone number

+60 03-7884 2888

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Flammable Liquid: Category 2.

Serious Eye Damage/Irritation: Category 1.

Carcinogenicity: Category 2.

Reproductive Toxicity: Category 1B.

Specific Target Organ Toxicity (repeated exposure): Category 2.

2.2. Label elements

Signal word

Danger

Symbols

Flame | Corrosion | Health Hazard |

Pictograms



Hazard Statements:

| | |
|------|---|
| H225 | Highly flammable liquid and vapor. |
| H318 | Causes serious eye damage. |
| H351 | Suspected of causing cancer. |
| H360 | May damage fertility or the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure: nervous system sensory organs. |

Precautionary statements

Prevention:

| | |
|-------|--|
| P201 | Obtain special instructions before use. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260 | Do not breathe dust/fume/gas/mist/vapors/spray. |
| P280A | Wear eye/face protection. |
| P281 | Use personal protective equipment as required. |

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. |
| P310 | Immediately call a POISON CENTER or doctor/physician. |
| P370 + P378 | In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish. |

2.3. Other hazards

May cause drowsiness or dizziness.

SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | C.A.S. No. | % by Wt |
|--|--------------|-----------|
| Acetone | 67-64-1 | 65 - 75 |
| Acrylic Polymer | Trade Secret | 20 - 30 |
| TETRAHYDROFURAN | 109-99-9 | 3 - 7 |
| GLYCEROL ESTERS OF ROSIN ACIDS | 8050-31-5 | 1 - 5 |
| Toluene | 108-88-3 | <= 4 |
| METHYL ACETATE | 79-20-9 | <= 2 |
| Methyl Ethyl Ketone | 78-93-3 | <= 2 |
| ACRYLONITRILE-1,3-BUTADIENE-METHACRYLIC ACID COPOLYMER | 9010-81-5 | 0.5 - 1.5 |
| CYCLOHEXANE | 110-82-7 | < 1 |
| MIBK | 108-10-1 | < 1 |

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

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

Skin Contact:

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

Eye Contact:

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

If Swallowed:

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

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

Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

Carbon monoxide

Carbon dioxide

Toxic Vapor, Gas, Particulate

Condition

During Combustion

During Combustion

During Combustion

5.3. Special protective actions for fire-fighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Contain spill. Cover spill area with a fire-extinguishing foam. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. 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. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (gloves, respirators, etc.) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. 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 |
|-----------------|------------|---------------|---------------------------------|--|
| MIBK | 108-10-1 | ACGIH | TWA:20 ppm;STEL:75 ppm | A3: Confirmed animal carcin. |
| MIBK | 108-10-1 | Malaysia OELs | TWA(8 hours):205 mg/m3(50 ppm) | |
| Toluene | 108-88-3 | ACGIH | TWA:20 ppm | A4: Not class. as human carcin, Ototoxicant |
| Toluene | 108-88-3 | Malaysia OELs | TWA(8 hours):188 mg/m3(50 ppm) | SKIN |
| TETRAHYDROFURAN | 109-99-9 | ACGIH | TWA:50 ppm;STEL:100 ppm | A3: Confirmed animal carcin., Danger of cutaneous absorption |
| TETRAHYDROFURAN | 109-99-9 | Malaysia OELs | TWA(8 hours):590 mg/m3(200 ppm) | |
| CYCLOHEXANE | 110-82-7 | ACGIH | TWA:100 ppm | |
| CYCLOHEXANE | 110-82-7 | Malaysia OELs | TWA(8 hours):1030 | |

| | | | | |
|---------------------|---------|---------------|----------------------------------|--------------------------------|
| | | | mg/m3(300 ppm) | |
| Acetone | 67-64-1 | ACGIH | TWA:250 ppm;STEL:500 ppm | A4: Not class. as human carcin |
| Acetone | 67-64-1 | Malaysia OELs | TWA(8 hours):1187 mg/m3(500 ppm) | |
| Methyl Ethyl Ketone | 78-93-3 | ACGIH | TWA:200 ppm;STEL:300 ppm | |
| Methyl Ethyl Ketone | 78-93-3 | Malaysia OELs | TWA(8 hours):590 mg/m3(200 ppm) | |
| METHYL ACETATE | 79-20-9 | ACGIH | TWA:200 ppm;STEL:250 ppm | |
| METHYL ACETATE | 79-20-9 | Malaysia OELs | TWA(8 hours):606 mg/m3(200 ppm) | |

ACGIH : American Conference of Governmental Industrial Hygienists

CMRG : Chemical Manufacturer's Recommended Guidelines

Malaysia OELs : Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

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

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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

Full Face Shield

Indirect Vented Goggles

Skin/hand protection

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

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

Respiratory protection

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

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

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|----------------|-----------|
| Physical state | Liquid |
| Color | Colorless |

| | |
|--|---|
| Odor | Ketones |
| Odor threshold | <i>No Data Available</i> |
| pH | <i>Not Applicable</i> |
| Melting point/Freezing point | <i>Not Applicable</i> |
| Boiling point/Initial boiling point/Boiling range | ≥ 56 °C [<i>Details: Acetone</i>] |
| Flash Point | -20 °C [<i>Test Method: Closed Cup</i>] [<i>Details: Acetone</i>] |
| Evaporation rate | 1.9 [<i>Ref Std: ETHER=1</i>] |
| Flammability (solid, gas) | Not Applicable |
| Flammable Limits(LEL) | 1.8 % volume |
| Flammable Limits(UEL) | 12.8 % volume |
| Vapor Pressure | $\leq 24,664.6$ Pa [<i>@ 20 °C</i>] |
| Vapor Density and/or Relative Vapor Density | 2 [<i>Ref Std: AIR=1</i>] |
| Density | 0.89 g/ml |
| Relative Density | 0.89 [<i>Ref Std: WATER=1</i>] |
| Water solubility | Slight (less than 10%) |
| Solubility- non-water | <i>No Data Available</i> |
| Partition coefficient: n-octanol/ water | <i>No Data Available</i> |
| Autoignition temperature | 465 °C [<i>Details: Acetone</i>] |
| Decomposition temperature | <i>No Data Available</i> |
| Viscosity/Kinematic Viscosity | 375 - 675 mPa-s [<i>@ 23 °C</i>] |
| Volatile Organic Compounds | <i>No Data Available</i> |
| Percent volatile | <i>No Data Available</i> |
| VOC Less H₂O & Exempt Solvents | ≤ 183 g/l [<i>Test Method: calculated SCAQMD rule 443.1</i>] |
| Molecular weight | <i>No Data Available</i> |
| Solids Content | 21 - 37 % |

Nanoparticles

This material does not contain nanoparticles.

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

Heat
Sparks and/or flames

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products**Substance****Condition**

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation:

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

May cause additional health effects (see below).

Skin Contact:

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

Eye Contact:

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

Ingestion:

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

May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:

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

Prolonged or repeated exposure may cause target organ effects:

Ocular Effects: Signs/symptoms may include blurred or significantly impaired vision.

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

Olfactory Effects: Signs/symptoms may include decreased ability to detect odors and/or complete loss of smell.

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

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 | Inhalation-Vapor(4 hr) | | No data available; calculated ATE >50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Acetone | Dermal | Rabbit | LD50 > 15,688 mg/kg |
| Acetone | Inhalation-Vapor (4 hours) | Rat | LC50 76 mg/l |
| Acetone | Ingestion | Rat | LD50 5,800 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 |
| TETRAHYDROFURAN | Dermal | Rat | LD50 > 2,000 mg/kg |
| TETRAHYDROFURAN | Inhalation-Vapor (4 hours) | Rat | LC50 54 mg/l |
| TETRAHYDROFURAN | Ingestion | Rat | LD50 3,180 mg/kg |
| Methyl Ethyl Ketone | Dermal | Rabbit | LD50 > 8,050 mg/kg |
| Methyl Ethyl Ketone | Inhalation-Vapor (4 hours) | Rat | LC50 34.5 mg/l |
| Methyl Ethyl Ketone | Ingestion | Rat | LD50 2,737 mg/kg |
| METHYL ACETATE | Dermal | Rat | LD50 > 2,000 mg/kg |
| METHYL ACETATE | Inhalation-Vapor (4 hours) | Rat | LC50 > 49 mg/l |
| METHYL ACETATE | Ingestion | Rat | LD50 > 5,000 mg/kg |
| GLYCEROL ESTERS OF ROSIN ACIDS | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| GLYCEROL ESTERS OF ROSIN ACIDS | Ingestion | Rat | LD50 > 2,000 mg/kg |
| MIBK | Dermal | Rabbit | LD50 > 16,000 mg/kg |
| MIBK | Inhalation-Vapor (4 hours) | Rat | LC50 > 8.2, < 16.4 mg/l |
| MIBK | Ingestion | Rat | LD50 3,038 mg/kg |
| ACRYLONITRILE-1,3-BUTADIENE-METHACRYLIC ACID COPOLYMER | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| ACRYLONITRILE-1,3-BUTADIENE-METHACRYLIC ACID COPOLYMER | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| CYCLOHEXANE | Dermal | Rat | LD50 > 2,000 mg/kg |
| CYCLOHEXANE | Inhalation-Vapor (4 hours) | Rat | LC50 > 32.9 mg/l |
| CYCLOHEXANE | Ingestion | Rat | LD50 6,200 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|------------------------|---------------------------|
| Acetone | Mouse | Minimal irritation |
| Toluene | Rabbit | Irritant |
| TETRAHYDROFURAN | Rabbit | Minimal irritation |
| Methyl Ethyl Ketone | Rabbit | Minimal irritation |
| METHYL ACETATE | Rabbit | No significant irritation |
| GLYCEROL ESTERS OF ROSIN ACIDS | Rabbit | Minimal irritation |
| MIBK | Rabbit | Mild irritant |
| ACRYLONITRILE-1,3-BUTADIENE-METHACRYLIC ACID COPOLYMER | Professional judgement | No significant irritation |

| | | |
|-------------|--------|---------------|
| CYCLOHEXANE | Rabbit | Mild irritant |
|-------------|--------|---------------|

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|------------------------|---------------------------|
| Acetone | Rabbit | Severe irritant |
| Toluene | Rabbit | Moderate irritant |
| TETRAHYDROFURAN | Rabbit | Corrosive |
| Methyl Ethyl Ketone | Rabbit | Severe irritant |
| METHYL ACETATE | Rabbit | Moderate irritant |
| GLYCEROL ESTERS OF ROSIN ACIDS | Rabbit | Mild irritant |
| MIBK | Rabbit | Mild irritant |
| ACRYLONITRILE-1,3-BUTADIENE-METHACRYLIC ACID COPOLYMER | Professional judgement | No significant irritation |
| CYCLOHEXANE | Rabbit | Mild irritant |

Sensitization:**Skin Sensitization**

| Name | Species | Value |
|--------------------------------|------------------|----------------|
| Toluene | Guinea pig | Not classified |
| TETRAHYDROFURAN | Human and animal | Not classified |
| METHYL ACETATE | Human | Not classified |
| GLYCEROL ESTERS OF ROSIN ACIDS | Guinea pig | Not classified |
| MIBK | 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 |
|--------------------------------|----------|--|
| Acetone | In vivo | Not mutagenic |
| Acetone | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Toluene | In Vitro | Not mutagenic |
| Toluene | In vivo | Not mutagenic |
| TETRAHYDROFURAN | In Vitro | Not mutagenic |
| TETRAHYDROFURAN | In vivo | Not mutagenic |
| Methyl Ethyl Ketone | In Vitro | Not mutagenic |
| METHYL ACETATE | In Vitro | Not mutagenic |
| METHYL ACETATE | In vivo | Not mutagenic |
| GLYCEROL ESTERS OF ROSIN ACIDS | In Vitro | Not mutagenic |
| MIBK | In Vitro | Not mutagenic |
| CYCLOHEXANE | In Vitro | Not mutagenic |
| CYCLOHEXANE | In vivo | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|---------|---------------|-------------------------|--|
| Acetone | Not Specified | Multiple animal species | 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 |
| TETRAHYDROFURAN | Inhalation | Multiple animal species | Carcinogenic |
| Methyl Ethyl Ketone | Inhalation | Human | Not carcinogenic |
| MIBK | Inhalation | Multiple animal species | Carcinogenic |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|---------------------|------------|--|-------------------------|-----------------------|------------------------|
| Acetone | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,700 mg/kg/day | 13 weeks |
| Acetone | Inhalation | Not classified for development | Rat | NOAEL 5.2 mg/l | during organogenesis |
| 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 |
| TETRAHYDROFURAN | Ingestion | Not classified for female reproduction | Rat | NOAEL 782 mg/kg/day | 2 generation |
| TETRAHYDROFURAN | Ingestion | Not classified for male reproduction | Rat | NOAEL 782 mg/kg/day | 2 generation |
| TETRAHYDROFURAN | Ingestion | Not classified for development | Rat | NOAEL 305 mg/kg/day | 2 generation |
| TETRAHYDROFURAN | Inhalation | Not classified for development | Mouse | NOAEL 1.8 mg/l | during gestation |
| Methyl Ethyl Ketone | Inhalation | Not classified for development | Rat | LOAEL 8.8 mg/l | during gestation |
| MIBK | Inhalation | Not classified for female reproduction | Multiple animal species | NOAEL 8.2 mg/l | 2 generation |
| MIBK | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| MIBK | Inhalation | Not classified for male reproduction | Multiple animal species | NOAEL 8.2 mg/l | 2 generation |
| MIBK | Inhalation | Not classified for development | Mouse | NOAEL 12.3 mg/l | during organogenesis |
| CYCLOHEXANE | Inhalation | Not classified for female reproduction | Rat | NOAEL 24 mg/l | 2 generation |
| CYCLOHEXANE | Inhalation | Not classified for male reproduction | Rat | NOAEL 24 mg/l | 2 generation |
| CYCLOHEXANE | Inhalation | Not classified for development | Rat | NOAEL 6.9 mg/l | 2 generation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---------|------------|-----------------------------------|-----------------------------------|---------|---------------------|-------------------|
| Acetone | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |

| | | | | | | |
|---------------------|------------|-----------------------------------|--|-------------------------|---------------------|------------------------|
| Acetone | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Acetone | Inhalation | immune system | Not classified | Human | NOAEL 1.19 mg/l | 6 hours |
| Acetone | Inhalation | liver | Not classified | Guinea pig | NOAEL Not available | |
| Acetone | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |
| 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 |
| TETRAHYDROFURAN | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| TETRAHYDROFURAN | Inhalation | respiratory irritation | May cause respiratory irritation | | NOAEL Not available | |
| TETRAHYDROFURAN | Inhalation | respiratory system | Not classified | Rabbit | NOAEL 2.9 mg/l | 4 hours |
| TETRAHYDROFURAN | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Rat | NOAEL 180 mg/kg | not applicable |
| Methyl Ethyl Ketone | Inhalation | central nervous system depression | May cause drowsiness or dizziness | official classification | NOAEL Not available | |
| Methyl Ethyl Ketone | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Methyl Ethyl Ketone | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| Methyl Ethyl Ketone | Ingestion | liver | Not classified | Rat | NOAEL Not available | not applicable |
| Methyl Ethyl Ketone | Ingestion | kidney and/or bladder | Not classified | Rat | LOAEL 1,080 mg/kg | not applicable |
| METHYL ACETATE | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| METHYL ACETATE | Inhalation | respiratory irritation | May cause respiratory irritation | Human and animal | NOAEL Not available | |
| METHYL ACETATE | Inhalation | blindness | Not classified | | NOAEL Not available | |
| METHYL ACETATE | Ingestion | central nervous system depression | May cause drowsiness or dizziness | | NOAEL Not available | |
| MIBK | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | LOAEL 0.1 mg/l | 2 hours |
| MIBK | Inhalation | respiratory irritation | May cause respiratory irritation | Human | NOAEL 0.9 mg/l | 7 minutes |
| MIBK | Inhalation | vascular system | Not classified | Dog | NOAEL Not available | not available |
| MIBK | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Rat | LOAEL 900 mg/kg | not applicable |
| CYCLOHEXANE | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| CYCLOHEXANE | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human and animal | NOAEL Not available | |
| CYCLOHEXANE | 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 |
|---------|------------|---|--|-------------------------|------------------------|------------------------|
| Acetone | Dermal | eyes | Not classified | Guinea pig | NOAEL Not available | 3 weeks |
| Acetone | Inhalation | hematopoietic system | Not classified | Human | NOAEL 3 mg/l | 6 weeks |
| Acetone | Inhalation | immune system | Not classified | Human | NOAEL 1.19 mg/l | 6 days |
| Acetone | Inhalation | kidney and/or bladder | Not classified | Guinea pig | NOAEL 119 mg/l | not available |
| Acetone | Inhalation | heart liver | Not classified | Rat | NOAEL 45 mg/l | 8 weeks |
| Acetone | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 900 mg/kg/day | 13 weeks |
| Acetone | Ingestion | heart | Not classified | Rat | NOAEL 2,500 mg/kg/day | 13 weeks |
| Acetone | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 200 mg/kg/day | 13 weeks |
| Acetone | Ingestion | liver | Not classified | Mouse | NOAEL 3,896 mg/kg/day | 14 days |
| Acetone | Ingestion | eyes | Not classified | Rat | NOAEL 3,400 mg/kg/day | 13 weeks |
| Acetone | Ingestion | respiratory system | Not classified | Rat | NOAEL 2,500 mg/kg/day | 13 weeks |
| Acetone | Ingestion | muscles | Not classified | Rat | NOAEL 2,500 mg/kg | 13 weeks |
| Acetone | Ingestion | skin bone, teeth, nails, and/or hair | Not classified | Mouse | NOAEL 11,298 mg/kg/day | 13 weeks |
| Toluene | Inhalation | auditory system eyes olfactory system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse |
| Toluene | Inhalation | nervous system | May cause damage to organs though prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse |
| Toluene | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 2.3 mg/l | 15 months |
| Toluene | Inhalation | heart liver kidney and/or bladder | Not classified | Rat | NOAEL 11.3 mg/l | 15 weeks |
| Toluene | Inhalation | endocrine system | Not classified | Rat | NOAEL 1.1 mg/l | 4 weeks |
| Toluene | Inhalation | immune system | Not classified | Mouse | NOAEL Not available | 20 days |
| Toluene | Inhalation | bone, teeth, nails, and/or hair | Not classified | Mouse | NOAEL 1.1 mg/l | 8 weeks |
| Toluene | Inhalation | hematopoietic system vascular system | Not classified | Human | NOAEL Not available | occupational exposure |
| Toluene | Inhalation | gastrointestinal tract | Not classified | Multiple animal species | NOAEL 11.3 mg/l | 15 weeks |
| Toluene | Ingestion | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 625 mg/kg/day | 13 weeks |
| Toluene | Ingestion | heart | Not classified | Rat | NOAEL 2,500 mg/kg/day | 13 weeks |
| Toluene | Ingestion | liver kidney and/or bladder | Not classified | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks |

| | | | | | | |
|--------------------------------|------------|---|--|-------------------------|-----------------------|-----------|
| Toluene | Ingestion | hematopoietic system | Not classified | Mouse | NOAEL 600 mg/kg/day | 14 days |
| 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 |
| TETRAHYDROFURAN | Inhalation | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 0.6 mg/l | 12 weeks |
| TETRAHYDROFURAN | Inhalation | respiratory system | Not classified | Rat | NOAEL 2.9 mg/l | 12 weeks |
| TETRAHYDROFURAN | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 0.6 mg/l | 105 weeks |
| TETRAHYDROFURAN | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL Not available | 2 weeks |
| Methyl Ethyl Ketone | Dermal | nervous system | Not classified | Guinea pig | NOAEL Not available | 31 weeks |
| Methyl Ethyl Ketone | Inhalation | liver kidney and/or bladder heart endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system immune system muscles | Not classified | Rat | NOAEL 14.7 mg/l | 90 days |
| Methyl Ethyl Ketone | Ingestion | liver | Not classified | Rat | NOAEL Not available | 7 days |
| Methyl Ethyl Ketone | Ingestion | nervous system | Not classified | Rat | NOAEL 173 mg/kg/day | 90 days |
| METHYL ACETATE | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1.1 mg/l | 28 days |
| METHYL ACETATE | Inhalation | endocrine system hematopoietic system liver immune system kidney and/or bladder | Not classified | Rat | NOAEL 6.1 mg/l | 28 days |
| GLYCEROL ESTERS OF ROSIN ACIDS | Ingestion | liver heart skin endocrine system bone, teeth, nails, and/or hair blood bone marrow hematopoietic system immune system muscles nervous system eyes kidney and/or bladder respiratory system | Not classified | Rat | NOAEL 5,000 mg/kg/day | 90 days |
| MIBK | Inhalation | liver | Not classified | Rat | NOAEL 0.41 mg/l | 13 weeks |
| MIBK | Inhalation | heart | Not classified | Multiple animal species | NOAEL 0.8 mg/l | 2 weeks |
| MIBK | Inhalation | kidney and/or bladder | Not classified | Multiple animal species | NOAEL 0.4 mg/l | 90 days |
| MIBK | Inhalation | respiratory system | Not classified | Multiple animal species | NOAEL 4.1 mg/l | 14 weeks |
| MIBK | Inhalation | endocrine system hematopoietic system | Not classified | Multiple animal species | NOAEL 0.41 mg/l | 90 days |
| MIBK | Inhalation | nervous system | Not classified | Multiple animal | NOAEL 0.41 mg/l | 13 weeks |

| | | | | species | | |
|-------------|------------|---|----------------|---------|-----------------------|----------|
| MIBK | Ingestion | endocrine system hematopoietic system liver kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| MIBK | Ingestion | heart immune system muscles nervous system respiratory system | Not classified | Rat | NOAEL 1,040 mg/kg/day | 120 days |
| CYCLOHEXANE | Inhalation | liver | Not classified | Rat | NOAEL 24 mg/l | 90 days |
| CYCLOHEXANE | Inhalation | auditory system | Not classified | Rat | NOAEL 1.7 mg/l | 90 days |
| CYCLOHEXANE | Inhalation | kidney and/or bladder | Not classified | Rabbit | NOAEL 2.7 mg/l | 10 weeks |
| CYCLOHEXANE | Inhalation | hematopoietic system | Not classified | Mouse | NOAEL 24 mg/l | 14 weeks |
| CYCLOHEXANE | Inhalation | peripheral nervous system | Not classified | Rat | NOAEL 8.6 mg/l | 30 weeks |

Aspiration Hazard

| Name | Value |
|-------------|--|
| Toluene | Aspiration hazard |
| MIBK | Some positive data exist, but the data are not sufficient for classification |
| CYCLOHEXANE | 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 be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labeling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity**Acute aquatic hazard:**

GHS Acute 3: Harmful to aquatic life.

Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available

| Material | Cas # | Organism | Type | Exposure | Test Endpoint | Test Result |
|-----------------|--------------|-----------------|--|----------|---------------|-------------|
| Acetone | 67-64-1 | Algae other | Experimental | 96 hours | EC50 | 11,493 mg/l |
| Acetone | 67-64-1 | Crustacea other | Experimental | 24 hours | LC50 | 2,100 mg/l |
| Acetone | 67-64-1 | Rainbow Trout | Experimental | 96 hours | LC50 | 5,540 mg/l |
| Acetone | 67-64-1 | Water flea | Experimental | 21 days | NOEC | 1,000 mg/l |
| Acetone | 67-64-1 | Bacteria | Experimental | 16 hours | NOEC | 1,700 mg/l |
| Acetone | 67-64-1 | Redworm | Experimental | 48 hours | LC50 | >100 |
| Acrylic Polymer | Trade Secret | | Data not available or insufficient for | | | N/A |

| | | | classification | | | |
|--------------------------------------|-----------|---------------------|----------------|----------|-----------------------------------|---------------------------------|
| TETRAHYDR OFURAN | 109-99-9 | Activated sludge | Experimental | 3 hours | IC50 | 460 mg/l |
| TETRAHYDR OFURAN | 109-99-9 | Fathead Minnow | Experimental | 96 hours | LC50 | 2,160 mg/l |
| TETRAHYDR OFURAN | 109-99-9 | Water flea | Experimental | 48 hours | LC50 | 3,485 mg/l |
| TETRAHYDR OFURAN | 109-99-9 | Fathead Minnow | Experimental | 33 days | NOEC | 216 mg/l |
| GLYCEROL ESTERS OF ROSIN ACIDS | 8050-31-5 | Green Algae | Estimated | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| GLYCEROL ESTERS OF ROSIN ACIDS | 8050-31-5 | Rainbow Trout | Estimated | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| GLYCEROL ESTERS OF ROSIN ACIDS | 8050-31-5 | Water flea | Experimental | 48 hours | No tox obs at lmt of water sol | >100 mg/l |
| GLYCEROL ESTERS OF ROSIN ACIDS | 8050-31-5 | Green Algae | Estimated | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Toluene | 108-88-3 | Coho Salmon | Experimental | 96 hours | LC50 | 5.5 mg/l |
| Toluene | 108-88-3 | Grass Shrimp | Experimental | 96 hours | LC50 | 9.5 mg/l |
| Toluene | 108-88-3 | Green Algae | Experimental | 72 hours | EC50 | 12.5 mg/l |
| Toluene | 108-88-3 | Leopard frog | Experimental | 9 days | LC50 | 0.39 mg/l |
| Toluene | 108-88-3 | Pink Salmon | Experimental | 96 hours | LC50 | 6.41 mg/l |
| Toluene | 108-88-3 | Water flea | Experimental | 48 hours | EC50 | 3.78 mg/l |
| Toluene | 108-88-3 | Coho Salmon | Experimental | 40 days | NOEC | 1.39 mg/l |
| Toluene | 108-88-3 | Diatom | Experimental | 72 hours | NOEC | 10 mg/l |
| Toluene | 108-88-3 | Water flea | Experimental | 7 days | NOEC | 0.74 mg/l |
| Toluene | 108-88-3 | Activated sludge | Experimental | 12 hours | IC50 | 292 mg/l |
| Toluene | 108-88-3 | Bacteria | Experimental | 16 hours | NOEC | 29 mg/l |
| Toluene | 108-88-3 | Bacteria | Experimental | 24 hours | EC50 | 84 mg/l |
| Toluene | 108-88-3 | Redworm | Experimental | 28 days | LC50 | >150 mg per kg of bodyweight |
| Toluene | 108-88-3 | Soil microbes | Experimental | 28 days | NOEC | <26 mg/kg (Dry Weight) |
| METHYL ACETATE | 79-20-9 | Bacteria | Experimental | 16 hours | EC50 | 6,000 mg/l |
| METHYL ACETATE | 79-20-9 | Green algae | Experimental | 72 hours | EC50 | >120 mg/l |
| METHYL ACETATE | 79-20-9 | Water flea | Experimental | 48 hours | EC50 | 1,026.7 mg/l |
| METHYL ACETATE | 79-20-9 | Green algae | Experimental | 72 hours | NOEC | 120 mg/l |
| Methyl Ethyl Ketone | 78-93-3 | Fathead Minnow | Experimental | 96 hours | LC50 | 2,993 mg/l |
| Methyl Ethyl Ketone | 78-93-3 | Green algae | Experimental | 96 hours | ErC50 | 2,029 mg/l |
| Methyl Ethyl Ketone | 78-93-3 | Water flea | Experimental | 48 hours | EC50 | 308 mg/l |
| Methyl Ethyl Ketone | 78-93-3 | Green Algae | Experimental | 96 hours | ErC10 | 1,289 mg/l |

| | | | | | | |
|---|-----------|------------------|---|------------|------|------------|
| Methyl Ethyl Ketone | 78-93-3 | Water flea | Experimental | 21 days | NOEC | 100 mg/l |
| Methyl Ethyl Ketone | 78-93-3 | Bacteria | Experimental | 16 hours | LOEC | 1,150 mg/l |
| ACRYLONIT RILE-1,3-BUTADIENE-METHACRYLIC ACID COPOLYMER | 9010-81-5 | | Data not available or insufficient for classification | | | N/A |
| CYCLOHEXANE | 110-82-7 | Bacteria | Experimental | 24 hours | IC50 | 97 mg/l |
| CYCLOHEXANE | 110-82-7 | Fathead Minnow | Experimental | 96 hours | LC50 | 4.53 mg/l |
| CYCLOHEXANE | 110-82-7 | Water flea | Experimental | 48 hours | EC50 | 0.9 mg/l |
| MIBK | 108-10-1 | Green Algae | Experimental | 96 hours | EC50 | 400 mg/l |
| MIBK | 108-10-1 | Water flea | Experimental | 48 hours | EC50 | >200 mg/l |
| MIBK | 108-10-1 | Zebra Fish | Experimental | 96 hours | LC50 | >179 mg/l |
| MIBK | 108-10-1 | Fathead Minnow | Experimental | 32 days | NOEC | 56.2 mg/l |
| MIBK | 108-10-1 | Water flea | Experimental | 21 days | NOEC | 78 mg/l |
| MIBK | 108-10-1 | Activated sludge | Experimental | 30 minutes | EC50 | >1,000 |

12.2. Persistence and degradability

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|--------------------------------|--------------|-----------------------------------|----------|-------------------------------|-----------------------------------|--------------------------------|
| Acetone | 67-64-1 | Experimental Photolysis | | Photolytic half-life (in air) | 147 days (t 1/2) | |
| Acetone | 67-64-1 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 78 % BOD/ThBOD | OECD 301D - Closed Bottle Test |
| Acrylic Polymer | Trade Secret | Data not available - insufficient | | | N/A | |
| TETRAHYDROFURAN | 109-99-9 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 39 % BOD/ThBOD | Non-standard method |
| GLYCEROL ESTERS OF ROSIN ACIDS | 8050-31-5 | Experimental Biodegradation | 28 days | Carbon dioxide evolution | 0 %CO2 evolution/THC O2 evolution | OECD 301B - Mod. Sturm or CO2 |
| Toluene | 108-88-3 | Experimental Photolysis | | Photolytic half-life (in air) | 5.2 days (t 1/2) | |
| Toluene | 108-88-3 | Experimental Biodegradation | 20 days | Biological Oxygen Demand | 80 % BOD/ThBOD | APHA Std Meth Water/Wastewater |
| METHYL ACETATE | 79-20-9 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 70 % weight | OECD 301D - Closed Bottle Test |
| Methyl Ethyl Ketone | 78-93-3 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 98 % BOD/ThBOD | OECD 301D - Closed Bottle Test |
| ACRYLONIT | 9010-81-5 | Data not | | | N/A | |

| | | | | | | |
|---|----------|-----------------------------|---------|-------------------------------|-------------------|--------------------------------|
| RILE-1,3-BUTADIENE-METHACRYLIC ACID COPOLYMER | | availbl-insufficient | | | | |
| CYCLOHEXANE | 110-82-7 | Experimental Photolysis | | Photolytic half-life (in air) | 4.14 days (t 1/2) | Non-standard method |
| CYCLOHEXANE | 110-82-7 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 77 % BOD/ThBOD | OECD 301F - Manometric Respiro |
| MIBK | 108-10-1 | Experimental Photolysis | | Photolytic half-life (in air) | 2.3 days (t 1/2) | |
| MIBK | 108-10-1 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 83 % BOD/ThBOD | OECD 301F - Manometric Respiro |

12.3. Bioaccumulative potential

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|--|--------------|---|----------|---|-------------|---------------------------------------|
| Acetone | 67-64-1 | Experimental BCF - Other | | Bioaccumulation Factor | 0.65 | |
| Acetone | 67-64-1 | Experimental Bioconcentration | | Log of Octanol/H ₂ O part. coeff | -0.24 | |
| Acrylic Polymer | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| TETRAHYDROFURAN | 109-99-9 | Experimental Bioconcentration | | Log of Octanol/H ₂ O part. coeff | 0.45 | Non-standard method |
| GLYCEROL ESTERS OF ROSIN ACIDS | 8050-31-5 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Toluene | 108-88-3 | Experimental BCF - Other | 72 hours | Bioaccumulation Factor | 90 | |
| Toluene | 108-88-3 | Experimental Bioconcentration | | Log of Octanol/H ₂ O part. coeff | 2.73 | |
| METHYL ACETATE | 79-20-9 | Experimental Bioconcentration | | Log of Octanol/H ₂ O part. coeff | 0.18 | Non-standard method |
| Methyl Ethyl Ketone | 78-93-3 | Experimental Bioconcentration | | Log of Octanol/H ₂ O part. coeff | 0.3 | OECD 117 log Kow HPLC method |
| ACRYLONITRILE-1,3-BUTADIENE-METHACRYLIC ACID COPOLYMER | 9010-81-5 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| CYCLOHEXANE | 110-82-7 | Experimental BCF-Carp | 56 days | Bioaccumulation Factor | 129 | OECD 305E-Bioaccumulation FI-thru fis |
| MIBK | 108-10-1 | Experimental | | Log of | 1.9 | OECD 117 log Kow |

| | | | | | | |
|--|--|------------------|--|---|--|-------------|
| | | Bioconcentration | | Octanol/H ₂ O part. coeff | | HPLC method |
|--|--|------------------|--|---|--|-------------|

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Disposal methods

According to the Environmental Quality (Scheduled Wastes) Regulations 2005, scheduled waste has to be sent to a prescribed premise for recycling, treatment or disposal. Please approach Kualiti Alam for proper schedule waste classification and disposal.

SECTION 14: Transport Information

Marine Transport (IMDG)

UN Number:UN1133

Proper Shipping Name:ADHESIVES

Technical Name:None assigned.

Hazard Class/Division:3

Subsidiary Risk:None assigned.

Packing Group:II

Limited Quantity:Yes

Marine Pollutant: None assigned.

Marine Pollutant Technical Name: None assigned.

Other Dangerous Goods Descriptions:

None assigned.

Air Transport (IATA)

UN Number:UN1133

Proper Shipping Name:ADHESIVES

Technical Name:None assigned.

Hazard Class/Division:3

Subsidiary Risk:None assigned.

Packing Group:II

Limited Quantity:None assigned.

Marine Pollutant: None assigned.

Marine Pollutant Technical Name: None assigned.

Other Dangerous Goods Descriptions:

None assigned.

Transportation classifications are provided as a customer service. As for shipping, YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling or marking requirements. The above information is only for reference. If you are shipping by air or ocean, YOU are advised to check & meet applicable regulatory requirements.

SECTION 15: Regulatory information

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

Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. 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.

SECTION 16: Other information

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.

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