

Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

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

1.1. Product identifier

3MTM Super77 Spray Adhesive

Product Identification Numbers

YP-2080-6120-7

7000116782

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

Identified uses

Aerosol Adhesive

1.3. Details of the supplier of the safety data sheet

Address: 3M Ireland Limited, 70 SIR JOHN ROGERSON'S QUAY, D02R296 DUBLIN 2

Telephone: +353 1 280 3555

E Mail: ner-productstewardship@mmm.com

Website: www.3M.com

1.4. Emergency telephone number

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

Aspiration hazard classification does not apply due to the spray pattern of the product.

CLASSIFICATION:

Aerosol, Category 1 - Aerosol 1; H222, H229

3M[™] Super77 Spray Adhesive

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 (Chronic), Category 2 - Aquatic Chronic 2; H411

For full text of H phrases, see Section 16.

2.2. Label elements

CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

DANGER.

Symbols

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

Pictograms







Ingredients:

| Ingredient | CAS Nbr | EC No. | % by Wt |
|--|---------|-----------|---------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | 927-510-4 | < 15 |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | | 931-254-9 | < 10 |

HAZARD STATEMENTS:

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.
P261E Avoid breathing vapour or spray.
P273 Avoid release to the environment.

Storage:

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

2.3. Other hazards

May displace oxygen and cause rapid suffocation.

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

SECTION 3: Composition/information on ingredients

3.1. Substances Not applicable

3.2. Mixtures

| Ingredient | Identifier(s) | 0/0 | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|------|---|
| propane | (CAS-No.) 74-98-6 (EC-No.) 200-827-9 (REACH-No.) 01- 2119486944-21 | < 15 | Flam. Gas 1A, H220 Liquified gas, H280 Nota U |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | (EC-No.) 927-510-4 (REACH-No.) 01- 2119475515-33 | < 15 | Aquatic Chronic 2, H411 Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 |
| dimethyl ether | (CAS-No.) 115-10-6 (EC-No.) 204-065-8 (REACH-No.) 01- 2119472128-37 | < 12 | Flam. Gas 1A, H220 Liquified gas, H280 Nota U |
| cyclohexane | (CAS-No.) 110-82-7 (EC-No.) 203-806-2 (REACH-No.) 01- 2119463273-41 | < 12 | Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1 |
| 2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene, polymer with 6,6-dimethyl-2-methylenebicyclo[3.1.1]heptane | (CAS-No.) 31393-98-3 | < 10 | Aquatic Chronic 4, H413 |
| Butadiene Copolymer | Trade Secret | < 10 | Substance not classified as hazardous |
| Hydrocarbons, C6, isoalkanes, < 5% n-hexane | (EC-No.) 931-254-9 (REACH-No.) 01- 2119484651-34 | < 10 | Aquatic Chronic 2, H411 Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 |
| pentane | (CAS-No.) 109-66-0 (EC-No.) 203-692-4 (REACH-No.) 01- 2119459286-30 | < 10 | Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336 EUH066 Aquatic Chronic 2, H411 Nota C |
| Thermoplastic resin | Trade Secret | < 7 | Substance with a national occupational exposure limit |
| butane | (CAS-No.) 106-97-8 (EC-No.) 203-448-7 (REACH-No.) 01- 2119474691-32 | < 7 | Flam. Gas 1A, H220 Liquified gas, H280 Nota C,U |
| isobutane | (CAS-No.) 75-28-5 (EC-No.) 200-857-2 (REACH-No.) 01- 2119485395-27 | < 5 | Flam. Gas 1A, H220 Liquified gas, H280 Nota C,U |
| isopentane | (CAS-No.) 78-78-4 (EC-No.) 201-142-8 | < 3 | Flam. Liq. 1, H224 Asp. Tox. 1, H304 STOT SE 3, H336 EUH066 |

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Aguatic Chronic 2, H411

Any entry in the Identifier(s) column that begins with the numbers 6, 7, 8, or 9 are a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance.

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. Get medical attention.

Skin contact

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

Eye contact

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

If swallowed

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

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

The most important symptoms and effects based on the CLP classification include:

Irritation to the skin (localized redness, swelling, itching, and dryness). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness).

4.3. Indication of any immediate medical attention and special treatment required

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Use a fire fighting agent suitable for the surrounding fire.

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

SubstanceConditionAldehydes.During combustion.Hydrocarbons.During combustion.formaldehydeDuring combustion.Carbon monoxideDuring combustion.Carbon dioxide.During combustion.Ketones.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.

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 vapours, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Contain spill. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. 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 authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible.

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

Do not use in a confined area with minimal air exchange. Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapours/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 contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required.

7.2. Conditions for safe storage including any incompatibilities

Keep container tightly closed to prevent loss of stabilizing materials. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Protect from sunlight. Store in a well-ventilated place. Store away from heat. Store away from acids. Store away from oxidising 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 butane | CAS Nbr 106-97-8 | Agency Ireland OELs | Limit type STEL(15 minutes):1000 ppm | Additional comments |
|---------------------|-------------------------|-------------------------------|---|-----------------------|
| pentane | 109-66-0 | Ireland OELs | TWA(8 hours):3000 mg/m3(1000 ppm);TWA(8 hours):1000 ppm(3000 mg/m3) | |
| cyclohexane | 110-82-7 | Ireland OELs | TWA(8 hours):700 mg/m3(200 ppm);TWA(8 hours):200 ppm(700 mg/m3) | |
| dimethyl ether | 115-10-6 | Ireland OELs | TWA(8 hours):1920 mg/m3(1000 ppm);TWA(8 hours):1000 ppm(1920 mg/m3) | |
| isobutane | 75-28-5 | Ireland OELs | STEL(15 minutes):1000 ppm | |
| isopentane | 78-78-4 | Ireland OELs | TWA(8 hours):3000 mg/m3(1000 ppm);TWA(8 hours):1000 ppm(3000 mg/m3) | |
| Thermoplastic resin | Trade Secre | t Ireland OELs | TWA(8 hours):0.05 mg/m3;STEL(15 minutes):0.15 mg/m3 | AIR, total respirable |

Ireland OELs : Ireland. OELs TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

Biological limit values

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

Derived no effect level (DNEL)

| Ingredient | Degradation | Population | Human exposure | DNEL |
|----------------------|-------------|------------|-----------------------|-------------------------|
| | Product | | pattern | |
| Hydrocarbons, C6, | | Worker | Dermal, Long-term | 13,964 mg/kg bw/d |
| isoalkanes, < 5% n- | | | exposure (8 hours), | |
| hexane | | | Systemic effects | |
| Hydrocarbons, C6, | | Worker | Inhalation, Long-term | 5,306 mg/m ³ |
| isoalkanes, < 5% n- | | | exposure (8 hours), | |
| hexane | | | Systemic effects | |
| Hydrocarbons, C7, n- | | Worker | Dermal, Long-term | 13,964 mg/kg bw/d |
| alkanes, isoalkanes, | | | exposure (8 hours), | |
| cyclics | | | Systemic effects | |
| Hydrocarbons, C7, n- | | Worker | Inhalation, Long-term | 5,306 mg/m ³ |
| alkanes, isoalkanes, | | | exposure (8 hours), | |
| cyclics | | | Systemic effects | |
| Hydrocarbons, C6, | | Worker | Dermal, Long-term | 300 mg/kg bw/d |
| isoalkanes, < 5% n- | | | exposure (8 hours), | |
| hexane | | | Systemic effects | |
| Hydrocarbons, C6, | | Worker | Inhalation, Long-term | 2,085 mg/m ³ |
| isoalkanes, < 5% n- | | | exposure (8 hours), | |
| hexane | | | Systemic effects | |
| Hydrocarbons, C7, n- | | Worker | Dermal, Long-term | 300 mg/kg bw/d |
| alkanes, isoalkanes, | | | exposure (8 hours), | |
| cyclics | | | Systemic effects | |
| Hydrocarbons, C7, n- | | Worker | Inhalation, Long-term | 2,085 mg/m ³ |
| alkanes, isoalkanes, | | | exposure (8 hours), | |

| cyclics | | Systemic effects | |
|---|--------|--|-------------------------|
| cyclohexane | Worker | Dermal, Long-term exposure (8 hours), Systemic effects | 2,016 mg/kg bw/d |
| cyclohexane | Worker | Inhalation, Long-term exposure (8 hours), Local effects | 700 mg/m ³ |
| cyclohexane | Worker | Inhalation, Long-term exposure (8 hours), Systemic effects | 700 mg/m ³ |
| cyclohexane | Worker | Inhalation, Short-term exposure, Local effects | 700 mg/m ³ |
| cyclohexane | Worker | Inhalation, Short-term exposure, Systemic effects | 700 mg/m ³ |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Worker | Dermal, Long-term exposure (8 hours), Systemic effects | 300 mg/kg bw/d |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Worker | Inhalation, Long-term exposure (8 hours), Systemic effects | 2,085 mg/m ³ |
| Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics | Worker | Dermal, Long-term exposure (8 hours), Systemic effects | 300 mg/kg bw/d |
| Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics | Worker | Inhalation, Long-term exposure (8 hours), Systemic effects | 2,085 mg/m ³ |

Predicted no effect concentrations (PNEC)

| Ingredient | Degradation Product | Compartment | PNEC |
|--|------------------------|--------------------------------|------------------|
| cyclohexane | Troduct | Freshwater | 0.207 mg/l |
| cyclohexane | | Freshwater sediments | 3.627 mg/kg d.w. |
| cyclohexane | | Intermittent releases to water | 0.207 mg/l |
| cyclohexane | | Marine water | 0.207 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | | Agricultural soil | 0.53 mg/kg d.w. |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | | Freshwater | 0.096 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | | Freshwater sediments | 2.5 mg/kg d.w. |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | | Marine water | 0.096 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | | Marine water sediments | 2.5 mg/kg d.w. |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | Agricultural soil | 0.53 mg/kg d.w. |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | Freshwater | 0.096 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | Freshwater sediments | 2.5 mg/kg d.w. |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | Marine water | 0.096 mg/l |

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| Hydrocarbons, C7, n- | Marine water sediments | 2.5 mg/kg d.w. |
|------------------------------|------------------------|----------------|
| alkanes, isoalkanes, cyclics | | |

Recommended monitoring procedures: Information on recommended monitoring procedures can be obtained from Indust. Inspect./Ministry (IE)

8.2. Exposure controls

In addition, refer to the annex for more information.

8.2.1. Engineering controls

Do not remain in area where available oxygen may be reduced. 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/vapours/spray. If ventilation is not adequate, use respiratory protection 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.

Applicable Norms/Standards
Use eye protection conforming to EN 166

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:

| Material | Thickness (mm) | Breakthrough Time |
|------------------|----------------|--------------------------|
| Polymer laminate | >.3 | =>8 hours |

The glove data presented are based on the substance driving dermal toxicity and the conditions present at the time of testing. Breakthrough time may be altered when the glove is subjected to use conditions that place additional stress on the glove.

Applicable Norms/Standards
Use gloves tested to EN 374

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 vapours Half facepiece or full facepiece supplied-air respirator

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

Applicable Norms/Standards
Use a respirator conforming to EN 140 or EN 136
Use a respirator conforming to EN 140 or EN 136: filter type A

8.2.3. Environmental exposure controls

Refer to Annex

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| . Thror mation on basic physical and chemical prope | i des |
|---|--|
| Physical state | Liquid. |
| Specific Physical Form: | Aerosol |
| Colour | Colourless |
| Odor | Sweet Odour |
| Odour threshold | No data available. |
| Melting point/freezing point | Not applicable. |
| Boiling point/boiling range | Not applicable. |
| Flammability | Flammable Aerosol: Category 1. |
| | |
| Flammable Limits(LEL) | No data available. |
| Flammable Limits(UEL) | No data available. |
| Flash point | -42 °C [Test Method:Closed Cup] [Details:Aerosol Adhesive] |
| Autoignition temperature | No data available. |
| Decomposition temperature | Not applicable. |
| рН | substance/mixture is non-polar/aprotic |
| Kinematic Viscosity | 286 mm²/sec |
| Water solubility | No data available. |
| Solubility- non-water | Not applicable. |
| Partition coefficient: n-octanol/water | No data available. |
| Vapour pressure | Not applicable. |
| Density | <=0.7 g/ml |
| Relative density | approximately 0.7 N/A [Ref Std:WATER=1] |
| | [Details:G/cm3] |
| Relative Vapour Density | No data available. |
| Particle Characteristics | Not applicable. |
| | |
| | |

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic CompoundsNo data available.Evaporation rateNo data available.Percent volatileapproximately 75 %

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 polymerisation will not occur.

10.4 Conditions to avoid

Heat.

Sparks and/or flames.

10.5 Incompatible materials

Strong acids.

Strong oxidising 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 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 internal hazard assessments.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Signs and Symptoms of Exposure

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

Inhalation

Simple asphyxiation: Signs/symptoms may include increased heart rate, rapid respirations, drowsiness, headache, incoordination, altered judgement, nausea, vomiting, lethargy, seizures, coma, and may be fatal. 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 localised redness, swelling, itching, dryness, cracking, blistering, and pain.

Eve contact

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

Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. 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. Single exposure, above recommended guidelines, may cause: Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

Prolonged or repeated exposure may cause target organ effects:

Peripheral neuropathy: Signs/symptoms may include tingling or numbness of the extremities, incoordination, weakness of the hands and feet, tremors and muscle atrophy.

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- Vapour(4 hr) | | No data available; calculated ATE >50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| propane | Inhalation- Gas (4 hours) | Rat | LC50 > 200,000 ppm |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Dermal | Rabbit | LD50 > 2,920 mg/kg |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Dermal | Rabbit | LD50 > 3,160 mg/kg |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Dermal | Rabbit | LD50 > 3,160 mg/kg |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Dermal | Rat | LD50 > 2,000 mg/kg |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Inhalation- Vapour (4 hours) | Rat | LC50 > 14.7 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Inhalation- Vapour (4 hours) | Rat | LC50 > 23.3 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Inhalation- Vapour (4 hours) | Rat | LC50 > 5.61 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Ingestion | Rat | LD50 > 5,840 mg/kg |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Ingestion | Rat | LD50 > 5,000 mg/kg |
| pentane | Dermal | Rabbit | LD50 3,000 mg/kg |
| pentane | Inhalation- Vapour (4 hours) | Rat | LC50 > 18 mg/l |
| pentane | Ingestion | Rat | LD50 > 2,000 mg/kg |
| cyclohexane | Dermal | Rat | LD50 > 2,000 mg/kg |
| cyclohexane | Inhalation- Vapour (4 hours) | Rat | LC50 > 32.9 mg/l |
| cyclohexane | Ingestion | Rat | LD50 6,200 mg/kg |
| dimethyl ether | Inhalation- Gas (4 hours) | Rat | LC50 164,000 ppm |
| Butadiene Copolymer | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Butadiene Copolymer | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Dermal | Rabbit | LD50 > 2,920 mg/kg |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Dermal | Rabbit | LD50 > 3,160 mg/kg |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Dermal | Rabbit | LD50 > 3,160 mg/kg |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Dermal | Rat | LD50 > 2,000 mg/kg |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Inhalation- Vapour (4 hours) | Rat | LC50 > 14.7 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Inhalation- Vapour (4 hours) | Rat | LC50 > 23.3 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Inhalation- Vapour (4 hours) | Rat | LC50 > 5.61 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Ingestion | Rat | LD50 > 5,840 mg/kg |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Ingestion | Rat | LD50 > 5,000 mg/kg |
| 2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene, polymer with 6,6- | Dermal | Professio | LD50 estimated to be > 5,000 mg/kg |

| | | nt | |
|--|-------------|--------|--------------------|
| 2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene, polymer with 6,6- | Ingestion | Rat | LD50 > 2,000 mg/kg |
| dimethyl-2-methylenebicyclo[3.1.1]heptane | | | |
| Thermoplastic resin | Dermal | Rat | LD50 > 2,000 mg/kg |
| Thermoplastic resin | Ingestion | Rat | LD50 > 2,000 mg/kg |
| butane | Inhalation- | Rat | LC50 277,000 ppm |
| | Gas (4 | | |
| | hours) | | |
| isobutane | Inhalation- | Rat | LC50 276,000 ppm |
| | Gas (4 | | |
| | hours) | | |
| isopentane | Dermal | Rabbit | LD50 3,000 mg/kg |
| isopentane | Inhalation- | Rat | LC50 > 18 mg/l |
| | Vapour (4 | | |
| | hours) | | |
| isopentane | Ingestion | Rat | LD50 > 2,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|-----------|---------------------------|
| | | |
| propane | Rabbit | Minimal irritation |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Rabbit | Irritant |
| pentane | Rabbit | Minimal irritation |
| cyclohexane | Rabbit | Mild irritant |
| Butadiene Copolymer | Professio | Minimal irritation |
| | nal | |
| | judgemen | |
| | t | |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Rabbit | Irritant |
| 2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene, polymer with 6,6-dimethyl-2- | In vitro | No significant irritation |
| methylenebicyclo[3.1.1]heptane | data | |
| Thermoplastic resin | Rabbit | No significant irritation |
| butane | Professio | No significant irritation |
| | nal | |
| | judgemen | |
| | t | |
| isobutane | Professio | No significant irritation |
| | nal | |
| | judgemen | |
| | t | |
| isopentane | Rabbit | Minimal irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|-----------|---------------------------|
| | D 11: | L Agrana |
| propane | Rabbit | Mild irritant |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Rabbit | No significant irritation |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Rabbit | Mild irritant |
| pentane | Rabbit | Mild irritant |
| cyclohexane | Rabbit | Mild irritant |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Rabbit | No significant irritation |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Rabbit | Mild irritant |
| 2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene, polymer with 6,6-dimethyl-2- | In vitro | No significant irritation |
| methylenebicyclo[3.1.1]heptane | data | |
| Thermoplastic resin | Rabbit | Mild irritant |
| butane | Rabbit | No significant irritation |
| isobutane | Professio | No significant irritation |
| | nal | |
| | judgemen | |
| | t | |
| isopentane | Rabbit | Mild irritant |

Skin Sensitisation

| Name | Species | Value |
|---|----------|----------------|
| | | |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Guinea | Not classified |
| | pig | |
| pentane | Guinea | Not classified |
| | pig | |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Guinea | Not classified |
| | pig | |
| 2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene, polymer with 6,6-dimethyl-2- | Multiple | Not classified |
| methylenebicyclo[3.1.1]heptane | animal | |
| | species | |
| Thermoplastic resin | Human | Not classified |
| | and | |
| | animal | |
| isopentane | Guinea | Not classified |
| | pig | |

Respiratory Sensitisation

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

Germ Cell Mutagenicity

| Name | Route | Value |
|---|----------|--|
| propane | In Vitro | Not mutagenic |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | In Vitro | Not mutagenic |
| pentane | In vivo | Not mutagenic |
| pentane | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| cyclohexane | In Vitro | Not mutagenic |
| cyclohexane | In vivo | Some positive data exist, but the data are not sufficient for classification |
| dimethyl ether | In Vitro | Not mutagenic |
| dimethyl ether | In vivo | Not mutagenic |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | In Vitro | Not mutagenic |
| 2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene, polymer with 6,6-dimethyl-2-methylenebicyclo[3.1.1]heptane | In Vitro | Not mutagenic |
| butane | In Vitro | Not mutagenic |
| isobutane | In Vitro | Not mutagenic |
| isopentane | In vivo | Not mutagenic |
| isopentane | In Vitro | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|--|------------|---------|--|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Inhalation | Mouse | Some positive data exist, but the data are not sufficient for classification |
| dimethyl ether | Inhalation | Rat | Not carcinogenic |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Inhalation | Mouse | Some positive data exist, but the data are not sufficient for classification |
| | | | Sufficient for classification |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|--|----------------|--|---------|---------------------|----------------------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Not specified. | Not classified for female reproduction | Rat | NOAEL Not available | 2 generation |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Not specified. | Not classified for male reproduction | Rat | NOAEL Not available | 2 generation |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Not specified. | Not classified for development | Rat | NOAEL Not available | 2 generation |
| pentane | Ingestion | Not classified for development | Rat | NOAEL 1,000 | during organogenesis |

| | | | | mg/kg/day | |
|---------------------------------------|------------|--|-----|------------|---------------|
| pentane | Inhalation | Not classified for development | Rat | NOAEL 30 | during |
| | | | | mg/l | organogenesis |
| cyclohexane | Inhalation | Not classified for female reproduction | Rat | NOAEL 24 | 2 generation |
| | | | | mg/l | |
| cyclohexane | Inhalation | Not classified for male reproduction | Rat | NOAEL 24 | 2 generation |
| | | | | mg/l | |
| cyclohexane | Inhalation | Not classified for development | Rat | NOAEL 6.9 | 2 generation |
| | | | | mg/l | |
| dimethyl ether | Inhalation | Not classified for development | Rat | NOAEL | during |
| | | | | 40,000 ppm | organogenesis |
| Hydrocarbons, C6, isoalkanes, < 5% n- | Not | Not classified for female reproduction | Rat | NOAEL Not | 2 generation |
| hexane | specified. | | | available | |
| Hydrocarbons, C6, isoalkanes, < 5% n- | Not | Not classified for male reproduction | Rat | NOAEL Not | 2 generation |
| hexane | specified. | | | available | |
| Hydrocarbons, C6, isoalkanes, < 5% n- | Not | Not classified for development | Rat | NOAEL Not | 2 generation |
| hexane | specified. | | | available | |
| isopentane | Ingestion | Not classified for development | Rat | NOAEL | during |
| | | | | 1,000 | organogenesis |
| | | | | mg/kg/day | |
| isopentane | Inhalation | Not classified for development | Rat | NOAEL 30 | during |
| | | | | mg/l | organogenesis |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--|------------|--------------------------------------|--|-----------------------------------|------------------------|----------------------|
| propane | Inhalation | cardiac sensitisation | Causes damage to organs | Human | NOAEL Not available | |
| propane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| propane | Inhalation | respiratory irritation | Not classified | Human | NOAEL Not available | |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professio nal judgeme nt | NOAEL Not available | |
| pentane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Multiple animal species | NOAEL Not available | not available |
| pentane | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Not available | NOAEL Not available | not available |
| pentane | Inhalation | cardiac sensitisation | Not classified | Dog | NOAEL Not available | not available |
| pentane | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professio nal judgeme nt | NOAEL Not available | not available |
| 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 | Professio nal judgeme nt | NOAEL Not available | |
|--|------------|--------------------------------------|--|-----------------------------------|------------------------|---------------|
| dimethyl ether | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Rat | LOAEL 10,000 ppm | 30 minutes |
| dimethyl ether | Inhalation | cardiac sensitisation | Some positive data exist, but the data are not sufficient for classification | Dog | NOAEL 100,000 ppm | 5 minutes |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professio nal judgeme nt | NOAEL Not available | |
| butane | Inhalation | cardiac sensitisation | Causes damage to organs | Human | NOAEL Not available | |
| butane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| butane | Inhalation | heart | Not classified | Dog | NOAEL 5,000 ppm | 25 minutes |
| butane | Inhalation | respiratory irritation | Not classified | Rabbit | NOAEL Not available | |
| isobutane | Inhalation | cardiac sensitisation | Causes damage to organs | Multiple animal species | NOAEL Not available | |
| isobutane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| isobutane | Inhalation | respiratory irritation | Not classified | Mouse | NOAEL Not available | |
| isopentane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Multiple animal species | NOAEL Not available | not available |
| isopentane | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Not available | NOAEL Not available | not available |
| isopentane | Inhalation | cardiac sensitisation | Not classified | Dog | NOAEL Not available | not available |
| isopentane | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professio nal judgeme nt | NOAEL Not available | not available |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---------|------------|--|----------------|---------|---------------------|-----------------------|
| pentane | Inhalation | peripheral nervous system | Not classified | Human | NOAEL Not available | occupational exposure |
| pentane | Inhalation | heart skin endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system liver immune system | Not classified | Rat | NOAEL 20 mg/l | 13 weeks |

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| | | 1 1 | | | | |
|--|------------|--|----------------|--------|-----------------------------|-----------------------|
| | | muscles nervous system eyes kidney and/or bladder respiratory system | | | | |
| pentane | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 2,000 mg/kg/day | 28 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 |
| dimethyl ether | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 25,000 ppm | 2 years |
| dimethyl ether | Inhalation | liver | Not classified | Rat | NOAEL 20,000 ppm | 30 weeks |
| 2,6,6- Trimethylbicyclo[3.1.1]he pt-2-ene, polymer with 6,6-dimethyl-2- methylenebicyclo[3.1.1]he ptane | Ingestion | heart gastrointestinal tract hematopoietic system liver nervous system eyes kidney and/or bladder | Not classified | Rat | NOAEL 331 mg/kg/day | 90 days |
| butane | Inhalation | kidney and/or bladder blood | Not classified | Rat | NOAEL 4,489 ppm | 90 days |
| isobutane | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 4,500 ppm | 13 weeks |
| isopentane | Inhalation | peripheral nervous system | Not classified | Human | NOAEL Not available | occupational exposure |
| isopentane | Inhalation | heart skin endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system liver immune system muscles nervous system eyes kidney and/or bladder respiratory system | Not classified | Rat | NOAEL 20 mg/l | 13 weeks |
| isopentane | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 2,000 mg/kg/day | 28 days |

Aspiration Hazard

| Name | Value |
|--|-------------------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Aspiration hazard |
| pentane | Aspiration hazard |
| cyclohexane | Aspiration hazard |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | Aspiration hazard |
| isopentane | 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.

11.2. Information on other hazards

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

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 |
|---|-----------|----------------|-----------------------|----------|---------------|-------------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Green algae | Analogous Compound | 72 hours | EL50 | 29 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Medaka | Analogous Compound | 96 hours | LC50 | 0.561 mg/l |
| Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics | 927-510-4 | Water flea | Analogous Compound | 48 hours | EC50 | 0.4 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Fathead minnow | Estimated | 96 hours | LL50 | 8.2 mg/l |
| Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics | 927-510-4 | Green algae | Estimated | 72 hours | EL50 | 3.1 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Green algae | Estimated | 72 hours | EL50 | 29 mg/l |
| Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics | 927-510-4 | Green algae | Estimated | 72 hours | EL50 | 55 mg/l |
| Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics | 927-510-4 | Water flea | Estimated | 48 hours | EL50 | 3 mg/l |
| Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics | 927-510-4 | Water flea | Estimated | 48 hours | EL50 | 4.5 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Water flea | Estimated | 48 hours | LC50 | 3.9 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Rainbow trout | Experimental | 96 hours | LL50 | >13.4 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Green algae | Analogous Compound | 72 hours | NOEL | 6.3 mg/l |
| Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics | 927-510-4 | Water flea | Analogous Compound | 21 days | NOEC | 0.17 mg/l |
| Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics | 927-510-4 | Green algae | Estimated | 72 hours | NOEL | 0.5 mg/l |
| Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics | 927-510-4 | Green algae | Estimated | 72 hours | NOEL | 6.3 mg/l |
| Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics | 927-510-4 | Green algae | Estimated | 72 hours | NOEL | 30 mg/l |
| Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics | 927-510-4 | Water flea | Estimated | 21 days | NOEL | 1 mg/l |

| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Water flea | Estimated | 21 days | NOEL | 2.6 mg/l |
|---|--------------|------------------|---|----------|-----------------------------------|-------------|
| Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics | 927-510-4 | Activated sludge | Analogous Compound | 15 hours | IC50 | 29 mg/l |
| propane | 74-98-6 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| 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 |
| cyclohexane | 110-82-7 | Bacteria | Experimental | 24 hours | IC50 | 97 mg/l |
| dimethyl ether | 115-10-6 | Bacteria | Experimental | N/A | EC10 | >1,600 mg/l |
| dimethyl ether | 115-10-6 | Guppy | Experimental | 96 hours | LC50 | >4,100 mg/l |
| dimethyl ether | 115-10-6 | Water flea | Experimental | 48 hours | EC50 | >4,400 mg/l |
| 2,6,6- Trimethylbicyclo[3.1.1] hept-2-ene, polymer with 6,6-dimethyl-2- methylenebicyclo[3.1.1] lheptane | 31393-98-3 | Activated sludge | Experimental | 3 hours | NOEC | 1,000 mg/l |
| 2,6,6- Trimethylbicyclo[3.1.1] hept-2-ene, polymer with 6,6-dimethyl-2- methylenebicyclo[3.1.1] heptane | 31393-98-3 | Water flea | Experimental | 48 hours | No tox obs at lmt of water sol | >100 mg/l |
| 2,6,6- Trimethylbicyclo[3.1.1] hept-2-ene, polymer with 6,6-dimethyl-2- methylenebicyclo[3.1.1] heptane | 31393-98-3 | Water flea | Endpoint not reached | 21 days | EL10 | >100 mg/l |
| Butadiene Copolymer | Trade Secret | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | 931-254-9 | Green algae | Analogous Compound | 72 hours | EL50 | 29 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | 931-254-9 | Medaka | Analogous Compound | 96 hours | LC50 | 0.561 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | 931-254-9 | Water flea | Analogous Compound | 48 hours | EC50 | 0.4 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | 931-254-9 | Fathead minnow | Estimated | 96 hours | LL50 | 8.2 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | 931-254-9 | Green algae | Estimated | 72 hours | EL50 | 3.1 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | 931-254-9 | Green algae | Estimated | 72 hours | EL50 | 29 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | 931-254-9 | Green algae | Estimated | 72 hours | EL50 | 55 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | 931-254-9 | Water flea | Estimated | 48 hours | EL50 | 3 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n- | 931-254-9 | Water flea | Estimated | 48 hours | EL50 | 4.5 mg/l |

| hexane | | | | | | |
|---|--------------|------------------|---|----------|-----------------------------------|------------|
| Hydrocarbons, C6, isoalkanes, < 5% n-hexane | 931-254-9 | Water flea | Estimated | 48 hours | LC50 | 3.9 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n-hexane | 931-254-9 | Rainbow trout | Experimental | 96 hours | LL50 | >13.4 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n-hexane | 931-254-9 | Green algae | Analogous Compound | 72 hours | NOEL | 6.3 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n-hexane | 931-254-9 | Water flea | Analogous Compound | 21 days | NOEC | 0.17 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n-hexane | 931-254-9 | Green algae | Estimated | 72 hours | NOEL | 0.5 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n-hexane | 931-254-9 | Green algae | Estimated | 72 hours | NOEL | 6.3 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n-hexane | 931-254-9 | Green algae | Estimated | 72 hours | NOEL | 30 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n-hexane | 931-254-9 | Water flea | Estimated | 21 days | NOEL | 1 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n-hexane | 931-254-9 | Water flea | Estimated | 21 days | NOEL | 2.6 mg/l |
| Hydrocarbons, C6, isoalkanes, < 5% n-hexane | 931-254-9 | Activated sludge | Analogous Compound | 15 hours | IC50 | 29 mg/l |
| pentane | 109-66-0 | Green algae | Experimental | 72 hours | EC50 | 10.7 mg/l |
| pentane | 109-66-0 | Rainbow trout | Experimental | 96 hours | LC50 | 4.26 mg/l |
| pentane | 109-66-0 | Water flea | Experimental | 48 hours | EC50 | 2.7 mg/l |
| pentane | 109-66-0 | Green algae | Experimental | 72 hours | NOEC | 2.04 mg/l |
| butane | 106-97-8 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Thermoplastic resin | Trade Secret | Green algae | Estimated | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Thermoplastic resin | Trade Secret | Rainbow trout | Estimated | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| Thermoplastic resin | Trade Secret | Water flea | Estimated | 48 hours | No tox obs at lmt of water sol | >100 mg/l |
| Thermoplastic resin | Trade Secret | Green algae | Estimated | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| isobutane | 75-28-5 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| isopentane | 78-78-4 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|------------------------------|-----------|----------------|----------|------------|--------------|------------------------|
| Hydrocarbons, C7, n- | 927-510-4 | Analogous | 28 days | BOD | 74.4 %BOD/Th | OECD 301F - Manometric |
| alkanes, isoalkanes, cyclics | | Compound | - | | OD | respirometry |
| | | Biodegradation | | | | |
| Hydrocarbons, C7, n- | 927-510-4 | Estimated | 28 days | BOD | 77 %BOD/ThO | OECD 301F - Manometric |
| alkanes, isoalkanes, cyclics | | Biodegradation | - | | D | respirometry |
| Hydrocarbons, C7, n- | 927-510-4 | Estimated | 28 days | BOD | 98 %BOD/CO | OECD 301F - Manometric |

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| alkanes, isoalkanes, cyclics | | Biodegradation | | | D | respirometry |
|---|--------------|---|---------|-------------------------------|--|-------------------------------------|
| Hydrocarbons, C7, n- | 927-510-4 | Estimated | 28 days | BOD | 98 %BOD/CO | OECD 301F - Manometric |
| alkanes, isoalkanes, cyclics | | Biodegradation | | | D | respirometry |
| propane | 74-98-6 | Experimental Photolysis | | Photolytic half-life (in air) | 27.5 days (t 1/2) | |
| cyclohexane | 110-82-7 | Experimental Biodegradation | 28 days | BOD | 77 %BOD/ThO D | OECD 301F - Manometric respirometry |
| cyclohexane | 110-82-7 | Experimental Photolysis | | Photolytic half-life (in air) | 4.3 days (t 1/2) | |
| dimethyl ether | 115-10-6 | Experimental Biodegradation | 28 days | BOD | 5 %BOD/ThO D | OECD 301D - Closed bottle test |
| dimethyl ether | 115-10-6 | Experimental Photolysis | | Photolytic half-life (in air) | 12.4 days (t 1/2) | |
| 2,6,6- Trimethylbicyclo[3.1.1]hept -2-ene, polymer with 6,6- dimethyl-2- methylenebicyclo[3.1.1]hep tane | 31393-98-3 | Experimental Biodegradation | 28 days | BOD | 4 %BOD/ThO D | OECD 301D - Closed bottle test |
| Butadiene Copolymer | Trade Secret | Data not availbl- insufficient | N/A | N/A | N/A | N/A |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | 931-254-9 | Analogous Compound Biodegradation | 28 days | BOD | 74.4 %BOD/Th OD | OECD 301F - Manometric respirometry |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | 931-254-9 | Estimated Biodegradation | 28 days | BOD | 77 %BOD/ThO D | OECD 301F - Manometric respirometry |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | 931-254-9 | Estimated Biodegradation | 28 days | BOD | 98 %BOD/CO D | OECD 301F - Manometric respirometry |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | 931-254-9 | Estimated Biodegradation | 28 days | BOD | 98 %BOD/CO D | OECD 301F - Manometric respirometry |
| pentane | 109-66-0 | Experimental Biodegradation | 28 days | BOD | 87 %BOD/ThO D | OECD 301F - Manometric respirometry |
| pentane | 109-66-0 | Experimental Photolysis | | Photolytic half-life (in air) | 8.07 days (t 1/2) | |
| butane | 106-97-8 | Experimental Photolysis | | Photolytic half-life (in air) | 12.3 days (t 1/2) | |
| Thermoplastic resin | Trade Secret | Experimental Biodegradation | 28 days | CO2 evolution | 47.3 %CO2 evolution/THC O2 evolution | OECD 301B - Modified sturm or CO2 |
| isobutane | 75-28-5 | Experimental Photolysis | | Photolytic half-life (in air) | 13.4 days (t 1/2) | |
| isopentane | 78-78-4 | Experimental Biodegradation | 28 days | BOD | 71.43 %BOD/T hOD | |
| isopentane | 78-78-4 | Experimental Photolysis | | Photolytic half-life (in air) | 8.11 days (t 1/2) | |

12.3 : Bioaccumulative potential

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|--|-----------|---|----------|------------------------|-------------|--------------------------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Analogous Compound BCF - Fish | 28 days | Bioaccumulation factor | 540 | OECD305-Bioconcentration |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Estimated Bioconcentration | | Log Kow | 3.6 | |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Analogous Compound Bioconcentration | | Log Kow | 4.66 | |
| propane | 74-98-6 | Experimental Bioconcentration | | Log Kow | 2.36 | |
| cyclohexane | 110-82-7 | Experimental BCF - Fish | 56 days | Bioaccumulation factor | 129 | OECD305-Bioconcentration |
| cyclohexane | 110-82-7 | Experimental Bioconcentration | | Log Kow | 3.44 | |

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| dimethyl ether | 115-10-6 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
|---|--------------|---|---------|------------------------|------|--------------------------|
| 2,6,6- Trimethylbicyclo[3.1.1]hep t-2-ene, polymer with 6,6- dimethyl-2- methylenebicyclo[3.1.1]he ptane | 31393-98-3 | Experimental Bioconcentration | | Log Kow | 7.41 | |
| Butadiene Copolymer | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | 931-254-9 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | 931-254-9 | Analogous Compound BCF - Fish | 28 days | Bioaccumulation factor | 540 | OECD305-Bioconcentration |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | 931-254-9 | Estimated Bioconcentration | | Log Kow | 3.6 | |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | 931-254-9 | Analogous Compound Bioconcentration | | Log Kow | 4.66 | |
| pentane | 109-66-0 | Estimated Bioconcentration | | Bioaccumulation factor | 26 | |
| butane | 106-97-8 | Experimental Bioconcentration | | Log Kow | 2.89 | |
| Thermoplastic resin | Trade Secret | Estimated Bioconcentration | | Bioaccumulation factor | 7.4 | |
| isobutane | 75-28-5 | Experimental Bioconcentration | | Log Kow | 2.76 | |
| isopentane | 78-78-4 | Experimental Bioconcentration | | Log Kow | 2.3 | |

12.4. Mobility in soil

| Material | Cas No. | Test type | Study Type | Test result | Protocol |
|--|-----------|-------------------------------|------------|-------------|------------------------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Modeled Mobility in Soil | Koc | ≥202 l/kg | Episuite TM |
| cyclohexane | 110-82-7 | Modeled Mobility in Soil | Koc | 970 l/kg | Episuite TM |
| dimethyl ether | 115-10-6 | Modeled Mobility in Soil | Koc | 3 l/kg | Episuite TM |
| Hydrocarbons, C6, isoalkanes, < 5% n- hexane | 931-254-9 | Modeled Mobility in Soil | Koc | ≥202 l/kg | Episuite TM |
| pentane | 109-66-0 | Estimated Mobility in Soil | Koc | 72 l/kg | Episuite TM |

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. Endocrine disrupting properties

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

12.7. 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. Facility must be capable of handling aerosol cans. 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/EC 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)

08 04 09* Waste adhesives and sealants containing organic solvents or other dangerous substances
16 05 04* Gases in pressure containers (including halons) containing dangerous substances

EU waste code (product container after use)

15 01 04 Metallic packaging

SECTION 14: Transportation information

| | Ground Transport (ADR) | Air Transport (IATA) | Marine Transport (IMDG) |
|--|--|--|--|
| 14.1 UN number or ID number | UN1950 | UN1950 | UN1950 |
| 14.2 UN proper shipping name | AEROSOLS | AEROSOLS, FLAMMABLE | AEROSOLS |
| 14.3 Transport hazard class(es) | 2.1 | 2.1 | 2.1 |
| 14.4 Packing group | Not applicable. | Not applicable. | Not applicable. |
| 14.5 Environmental hazards | Not Environmentally Hazardous | Not applicable | Not a Marine Pollutant |
| 14.6 Special precautions for user | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. |
| 14.7 Marine Transport in bulk according to IMO instruments | No data available. | No data available. | No data available. |
| Control Temperature | No data available. | No data available. | No data available. |
| Emergency Temperature | No data available. | No data available. | No data available. |

| ADR Classification Code | 5F | Not applicable. | Not applicable. |
|-------------------------|-----------------|-----------------|-----------------|
| IMDG Segregation Code | Not applicable. | Not applicable. | NONE |

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

SECTION 15: Regulatory information

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

Restrictions on the manufacture, placing on the market and use:

The following substance(s) contained in this product is/are subject through Annex XVII of REACH regulation to restrictions on the manufacture, placing on the market and use when present in certain dangerous substances, mixtures and articles. Users of this product are required to comply with the restrictions placed upon it by the aforementioned provision.

Ingredient CAS Nbr cyclohexane 110-82-7

Restriction status: listed in REACH Annex XVII

Restricted uses: See Annex XVII to Regulation (EC) No 1907/2006 for Conditions of Restriction

Global inventory status

Contact 3M for more information.

DIRECTIVE 2012/18/EU

Seveso hazard categories, Annex 1, Part 1

| Hazard Categories | Qualifying quantity (tonnes) for the application of | | |
|-----------------------------|---|-------------------------|--|
| | Lower-tier requirements | Upper-tier requirements | |
| E2 Hazardous to the Aquatic | 200 | 500 | |
| environment | | | |
| P3a FLAMMABLE AEROSOLS | 150 (net) | 500 (net) | |

Seveso named dangerous substances, Annex 1, Part 2 None

Regulation (EU) No 649/2012

No chemicals listed

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this mixture. Chemical safety assessments for the contained substances may have been carried out by the registrants of the substances in accordance with Regulation (EC) No 1907/2006, as amended.

SECTION 16: Other information

List of relevant H statements

EUH066 Repeated exposure may cause skin dryness or cracking.

H220 Extremely flammable gas.

3M[™] Super77 Spray Adhesive

| H222 | Extremely flammable aerosol. |
|------|---|
| H224 | Extremely flammable liquid and vapour. |
| H225 | Highly flammable liquid and vapour. |
| H229 | Pressurised container: may burst if heated. |
| H280 | Contains gas under pressure; may explode if heated. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H336 | May cause drowsiness or dizziness. |
| 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. |
| H413 | May cause long lasting harmful effects to aquatic life. |
| | |

Revision information:

Industrial Use of Adhesives and Sealants: Section 16: Annex information was modified.

Professional Use of Adhesives: Section 16: Annex information was modified.

Section 1: Address information was modified.

Section 1: E-mail address information was modified.

Label: CLP Precautionary - Prevention information was modified.

Section 3: Composition/Information of ingredients table information was modified.

Section 6: Accidental release personal information information was modified.

Section 7: Conditions safe storage information was modified.

Section 8: DNEL table row information was modified.

Section 8: Occupational exposure limit table information was modified.

Section 8: PNEC table row information was modified.

Section 9: Flammability (solid, gas) information information was deleted.

Section 09: Flammability information information was added.

Section 09: Kinematic Viscosity information information was modified.

Section 09: Odor information was modified.

Section 09: Particle Characteristics N/A information was added.

Section 11: Acute Toxicity table information was modified.

Section 11: Aspiration Hazard Table information was modified.

Section 11: Germ Cell Mutagenicity Table 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: 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: Mobility in soil information information was modified.

Section 12: Persistence and Degradability information information was modified.

Section 12:Bioccumulative potential information information was modified.

Section 15: Restrictions on manufacture ingredients information information was added.

Section 15: Seveso Substance Text information was deleted.

Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was modified.

Annex

| 1. Title | |
|--------------------------|--|
| Substance identification | cyclohexane; EC No. 203-806-2; CAS Nbr 110-82-7; |

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| Exposure Scenario Name | Industrial Use of Adhesives and Sealants |
|--|---|
| Lifecycle Stage | Use at industrial sites |
| Contributing activities | PROC 07 -Industrial spraying |
| | ERC 04 -Use of non-reactive processing aid at industrial site (no inclusion into or |
| | onto article) |
| Processes, tasks and activities covered | Application of product. |
| 2. Operational conditions and risk management measures | |
| Operating Conditions | Physical state:Liquid. |
| | General operating conditions: |
| | Assumes use at not more than 20°C above ambient temperature; |
| | Duration of exposure per day at workplace [for one worker]: 8 hours/day; |
| | Emission days per year: 100 days per year; |
| | Indoor use; |
| | Outdoor use; |
| | |
| Risk management measures | Under the operational conditions described above the following risk management |
| | measures apply: |
| | General risk management measures: |
| | Human health: |
| | Provide a good standard of general ventilation (not less than 3 to 5 air changes per |
| | hour); Provide extract ventilation to points where emissions occur; |
| | Environmental: |
| | None needed; |
| | |
| Waste management measures | Avoid release to the environment. Refer to special instructions / safety data sheet.; |
| vi aste management measures | Do not apply industrial sludge to natural soils; |
| | Do not release to waterways or sewers; |
| | Prevent discharge of undissolved substance to or recover from wastewater; |
| | |
| 3. Prediction of exposure | |
| Prediction of exposure | Human and environmental exposures are not expected to exceed the DNELs and |
| | PNECs when the identified risk management measures are adopted. |
| | 1 |

| 1. Title | |
|--|--|
| Substance identification | Hydrocarbons, C6, isoalkanes, < 5% n- hexane; EC No. 931-254-9; Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; EC No. 927-510-4; |
| Exposure Scenario Name | Industrial Use of Coatings |
| Lifecycle Stage | Use at industrial sites |
| Contributing activities | PROC 07 -Industrial spraying ERC 04 -Use of non-reactive processing aid at industrial site (no inclusion into or onto article) |
| Processes, tasks and activities covered | Application of product. Spraying of substances/mixtures. |
| 2. Operational conditions and risk management measures | |
| Operating Conditions | Physical state:Liquid. General operating conditions: Assumes use at not more than 20°C above ambient temperature; Duration of exposure per day at workplace [for one worker]: 8 hours/day; Emission days per year: <= 20 days per year; Indoor use; Outdoor use; |
| Risk management measures | Under the operational conditions described above the following risk management measures apply: General risk management measures: |

| | Human health: None needed; Environmental: None needed; |
|---------------------------|--|
| Waste management measures | No use-specific waste management measures are required for this product. Refer to Section 13 of main SDS for disposal instructions: |
| 3. Prediction of exposure | |
| Prediction of exposure | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted. |

| 1. Title | |
|---|--|
| Substance identification | cyclohexane; EC No. 203-806-2; CAS Nbr 110-82-7; |
| Exposure Scenario Name | Professional Use of Adhesives |
| Lifecycle Stage | Widespread use by professional workers |
| Contributing activities | PROC 11 -Non industrial spraying ERC 08a -Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC 08d -Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) |
| Processes, tasks and activities covered | Application of product. |
| 2. Operational conditions and risk mana | |
| Operating Conditions | Physical state:Liquid. General operating conditions: Assumes use at not more than 20°C above ambient temperature; Duration of exposure per day at workplace [for one worker]: 8 hours/day; Emission days per year: 365 days per year; Indoor use; Outdoor use; |
| Risk management measures | Under the operational conditions described above the following risk management measures apply: General risk management measures: Human health: Ventilated Process Enclosures; Environmental: None needed; |
| Waste management measures | Avoid release to the environment. Refer to special instructions / safety data sheet.; |
| 3. Prediction of exposure | |
| Prediction of exposure | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted. |

| 1. Title | |
|--------------------------|--|
| Substance identification | Hydrocarbons, C6, isoalkanes, < 5% n- hexane; |
| | EC No. 931-254-9; |
| | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; |
| | EC No. 927-510-4; |
| | |
| Exposure Scenario Name | Professional Use of Coatings |
| Lifecycle Stage | Widespread use by professional workers |
| Contributing activities | PROC 11 -Non industrial spraying |
| | ERC 08a -Widespread use of non-reactive processing aid (no inclusion into or |
| | onto article, indoor) |

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| Processes, tasks and activities covered | Application of product. Spraying of substances/mixtures. | |
|--|--|--|
| 2. Operational conditions and risk management measures | | |
| Operating Conditions | Physical state:Liquid. | |
| | General operating conditions: | |
| | Assumes use at not more than 20°C above ambient temperature; | |
| | Duration of exposure per day at workplace [for one worker]: 8 hours/day; | |
| | Emission days per year: 365 days/year; | |
| | Indoor use; | |
| | Outdoor use; | |
| | | |
| Risk management measures | Under the operational conditions described above the following risk management | |
| | measures apply: | |
| | General risk management measures: | |
| | Human health: | |
| | None needed; | |
| | Environmental: | |
| | None needed; | |
| | | |
| Waste management measures | No use-specific waste management measures are required for this product. Refer | |
| | to Section 13 of main SDS for disposal instructions: | |
| 3. Prediction of exposure | | |
| Prediction of exposure | Human and environmental exposures are not expected to exceed the DNELs and | |
| | PNECs when the identified risk management measures are adopted. | |

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. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

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