# Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (1907/2006) as amended by Regulation (EU) 2020/878

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

### 1.1. Product identifier
Scotch 1625 Contact Cleaner

**Product Identification Numbers**
DE-9999-5338-8

7100037105

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

**Identified uses**
Electrical equipment cleaning

### 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.

**CLASSIFICATION:**
Aerosol, Category 1 - Aerosol 1; H222, H229

Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
Specific Target Organ Toxicity-Repeated Exposure, Category 2 - STOT RE 2; H373
Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H336
Aspiration Hazard, Category 1 - Asp. Tox. 1; H304
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) |GHS08 (Health Hazard) |GHS09 (Environment) |

**Pictograms**



**Ingredients:**

| Ingredient | Identifier(s) | EC No. | % by Wt |
|---|---|---|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | 927-510-4 | 60 - 90 |
| n-hexane | 110-54-3 | 203-777-6 | 0.5 - 1.5 |

**HAZARD STATEMENTS:**

| | |
|---|---|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: may burst if heated. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H304 | May be fatal if swallowed and enters airways. |
| H373 | May cause damage to organs through prolonged or repeated exposure: nervous system. |
| 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. |
| P280 | Wear protective gloves and eye protection. |

**Response:**

| | |
|---|---|
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor. |
| P331 | Do NOT induce vomiting. |

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

**Notes on labelling**
Updated per Regulation (EC) No. 648/2004 on detergents.
Ingredients required per 648/2004: >30%: Aliphatic hydrocarbons.

**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) | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | (EC-No.) 927-510-4<br>(REACH-No.) 01-2119475515-33 | 60 - 90 | Aquatic Chronic 2, H411<br>Flam. Liq. 2, H225<br>Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>STOT SE 3, H336 |
| propan-2-ol | (CAS-No.) 67-63-0<br>(EC-No.) 200-661-7<br>(REACH-No.) 01-2119457558-25 | 5 - 10 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336 |
| isobutane | (CAS-No.) 75-28-5<br>(EC-No.) 200-857-2<br>(REACH-No.) 01-2119485395-27 | 5 - 10 | Flam. Gas 1A, H220<br>Liquified gas, H280<br>Nota C,U |
| propane | (CAS-No.) 74-98-6<br>(EC-No.) 200-827-9<br>(REACH-No.) 01-2119486944-21 | 1 - 5 | Flam. Gas 1A, H220<br>Liquified gas, H280<br>Nota U |
| Carbon dioxide. | (CAS-No.) 124-38-9<br>(EC-No.) 204-696-9 | 1 - 5 | Liquified gas, H280 |
| n-hexane | (CAS-No.) 110-54-3<br>(EC-No.) 203-777-6 | 0.5 - 1.5 | Flam. Liq. 2, H225<br>Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>Repr. 2, H361f<br>STOT SE 3, H336<br>STOT RE 1, H372<br>Aquatic 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**
Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

**If swallowed**
Do not induce vomiting. Get immediate 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). Serious irritation to the eyes (significant redness, swelling, pain, tearing, and impaired vision). Aspiration pneumonitis (coughing, gasping, choking, burning of the mouth, and difficulty breathing). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness). Target organ effects. See Section 11 for additional details.

**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**

| Substance | Condition |
|---|---|
| Hydrocarbons. | During combustion. |
| Carbon monoxide | During combustion. |
| Carbon dioxide. | 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.

**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. 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. 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. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

**7.2. Conditions for safe storage including any incompatibilities**
Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50ºC/122ºF. 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**
No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

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

**8.2. Exposure controls**

**8.2.1. Engineering controls**

Provide ventilated enclosure for heat curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. 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 16321

**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.
Gloves made from the following material(s) are recommended:

| Material | Thickness (mm) | Breakthrough Time |
|---|---|---|
| Nitrile rubber. | 0.35 | =>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 and particulates
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 types A & P

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Liquid. |
| **Specific Physical Form:** | Aerosol |
| **Colour** | Colourless |
| **Odor** | Solvent |
| **Odour threshold** | *No data available.* |

| | |
|---|---|
| **Melting point/freezing point** | *No data available.* |
| **Boiling point/boiling range** | *Not applicable.* |
| **Flammability** | Flammable Aerosol: Category 1. |
| **Flammable Limits(LEL)** | 1.5 % volume |
| **Flammable Limits(UEL)** | 10.9 % volume |
| **Flash point** | -30 ºC |
| **Autoignition temperature** | *No data available.* |
| **Decomposition temperature** | *No data available.* |
| **pH** | *substance/mixture is non-polar/aprotic* |
| **Kinematic Viscosity** | 1 - 2 mm²/sec [@ 40 ºC] |
| **Water solubility** | Insoluble |
| **Solubility- non-water** | *No data available.* |
| **Partition coefficient: n-octanol/water** | *No data available.* |
| **Vapour pressure** | 4.1 kPa [@ 20 ºC ] |
| **Density** | 0.76 g/cm3 |
| **Relative density** | *No data available.* |
| **Relative Vapour Density** | *No data available.* |
| **Particle Characteristics** | *Not applicable.* |

**9.2. Other information**

**9.2.2 Other safety characteristics**

| | |
|---|---|
| **EU Volatile Organic Compounds** | 95 - 99 % |
| **Evaporation rate** | *No data available.* |
| **Percent volatile** | *No data available.* |

## 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.
High shear and high temperature conditions
Sparks and/or flames.
Temperatures above the boiling point.
High shear and high temperature conditions

**10.5 Incompatible materials**
Explosive when mixed with oxidizing substances.
Strong acids.

**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**
May be harmful if inhaled. 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.

**Eye contact**
Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

**Ingestion**
Chemical (aspiration) pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish coloured skin (cyanosis), and may be fatal. 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.

**Reproductive/Developmental Toxicity:**
Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

**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- | | No data available; calculated ATE >20 - =50 mg/l |

| | | | |
|---|---|---|---|
| | Vapour(4 hr) | | |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Dermal | Rabbit | LD50 > 2,920 mg/kg |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Inhalation-Vapour (4 hours) | Rat | LC50 > 23.3 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Ingestion | Rat | LD50 > 5,840 mg/kg |
| isobutane | Inhalation-Gas (4 hours) | Rat | LC50 276,000 ppm |
| propan-2-ol | Dermal | Rabbit | LD50 12,870 mg/kg |
| propan-2-ol | Inhalation-Vapour (4 hours) | Rat | LC50 72.6 mg/l |
| propan-2-ol | Ingestion | Rat | LD50 4,710 mg/kg |
| propane | Inhalation-Gas (4 hours) | Rat | LC50 > 200,000 ppm |
| Carbon dioxide. | Inhalation-Gas (4 hours) | Rat | LC50 > 53,000 ppm |
| n-hexane | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| n-hexane | Inhalation-Vapour (4 hours) | Rat | LC50 170 mg/l |
| n-hexane | Ingestion | Rat | LD50 > 28,700 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Rabbit | Irritant |
| isobutane | Professional judgement | No significant irritation |
| propan-2-ol | Multiple animal species | No significant irritation |
| propane | Rabbit | Minimal irritation |
| n-hexane | Human and animal | Mild irritant |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Rabbit | Mild irritant |
| isobutane | Professional judgement | No significant irritation |
| propan-2-ol | Rabbit | Severe irritant |
| propane | Rabbit | Mild irritant |
| n-hexane | Rabbit | Mild irritant |

**Skin Sensitisation**

| Name | Species | Value |
|---|---|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Guinea pig | Not classified |
| propan-2-ol | Guinea | Not classified |

| | | |
|---|---|---|
| | pig | |
| n-hexane | Human | Not classified |

**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 |
|---|---|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | In Vitro | Not mutagenic |
| isobutane | In Vitro | Not mutagenic |
| propan-2-ol | In Vitro | Not mutagenic |
| propan-2-ol | In vivo | Not mutagenic |
| propane | In Vitro | Not mutagenic |
| n-hexane | In Vitro | Not mutagenic |
| n-hexane | In vivo | Not mutagenic |

**Carcinogenicity**

| Name | Route | Species | Value |
|---|---|---|---|
| propan-2-ol | Inhalation | Rat | Some positive data exist, but the data are not sufficient for classification |
| n-hexane | Dermal | Mouse | Not carcinogenic |
| n-hexane | Inhalation | Mouse | Some positive data exist, but the data are not 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 |
| propan-2-ol | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | 2 generation |
| propan-2-ol | Ingestion | Not classified for male reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| propan-2-ol | Ingestion | Not classified for development | Rat | NOAEL 400 mg/kg/day | during organogenesis |
| propan-2-ol | Inhalation | Not classified for development | Rat | LOAEL 9 mg/l | during gestation |
| Carbon dioxide. | Inhalation | Not classified for male reproduction | Mouse | LOAEL 350,000 ppm | not available |
| Carbon dioxide. | Inhalation | Not classified for development | Rat | LOAEL 60,000 ppm | 24 hours |
| n-hexane | Ingestion | Not classified for development | Mouse | NOAEL 2,200 mg/kg/day | during organogenesis |
| n-hexane | Inhalation | Not classified for development | Rat | NOAEL 0.7 mg/l | during gestation |
| n-hexane | Ingestion | Toxic to male reproduction | Rat | NOAEL 1,140 mg/kg/day | 90 days |
| n-hexane | Inhalation | Toxic to male reproduction | Rat | LOAEL 3.52 mg/l | 28 days |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | 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 | |
| propan-2-ol | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| propan-2-ol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| propan-2-ol | Inhalation | auditory system | Not classified | Guinea pig | NOAEL 13.4 mg/l | 24 hours |
| propan-2-ol | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |
| 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 | |
| n-hexane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | not available |
| n-hexane | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Rabbit | NOAEL Not available | 8 hours |
| n-hexane | Inhalation | respiratory system | Not classified | Rat | NOAEL 24.6 mg/l | 8 hours |

## Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| isobutane | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 4,500 ppm | 13 weeks |
| propan-2-ol | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 12.3 mg/l | 24 months |
| propan-2-ol | Inhalation | nervous system | Not classified | Rat | NOAEL 12 mg/l | 13 weeks |
| propan-2-ol | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 400 mg/kg/day | 12 weeks |
| Carbon dioxide. | Inhalation | heart \| bone, teeth, nails, and/or hair \| liver \| nervous system \| kidney and/or bladder \| respiratory system | Not classified | Rat | LOAEL 60,000 ppm | 166 days |
| n-hexane | Inhalation | peripheral nervous system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| n-hexane | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Mouse | LOAEL 1.76 mg/l | 13 weeks |
| n-hexane | Inhalation | liver | Not classified | Rat | NOAEL Not available | 6 months |
| n-hexane | Inhalation | kidney and/or bladder | Not classified | Rat | LOAEL 1.76 mg/l | 6 months |
| n-hexane | Inhalation | hematopoietic system | Not classified | Mouse | NOAEL 35.2 mg/l | 13 weeks |
| n-hexane | Inhalation | auditory system \| immune system \| eyes | Not classified | Human | NOAEL Not available | occupational exposure |

| | | | | | | |
|---|---|---|---|---|---|---|
| n-hexane | Inhalation | heart \| skin \| endocrine system | Not classified | Rat | NOAEL 1.76 mg/l | 6 months |
| n-hexane | Ingestion | peripheral nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1,140 mg/kg/day | 90 days |
| n-hexane | Ingestion | endocrine system \| hematopoietic system \| liver \| immune system \| kidney and/or bladder | Not classified | Rat | NOAEL Not available | 13 weeks |

**Aspiration Hazard**

| Name | Value |
|---|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Aspiration hazard |
| n-hexane | 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 | Identifier(s) | Organism | Type | Exposure | Test endpoint | Test result |
|---|---|---|---|---|---|---|
| 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 | Water flea | Estimated | 48 hours | EL50 | 3 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 | Estimated | 72 hours | NOEL | 6.3 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Water flea | Estimated | 21 days | NOEL | 1 mg/l |
| isobutane | 75-28-5 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| propan-2-ol | 67-63-0 | Bacteria | Experimental | 16 hours | LOEC | 1,050 mg/l |
| propan-2-ol | 67-63-0 | Green algae | Experimental | 72 hours | EC50 | >1,000 mg/l |
| propan-2-ol | 67-63-0 | Invertebrate | Experimental | 24 hours | LC50 | >10,000 mg/l |
| propan-2-ol | 67-63-0 | Medaka | Experimental | 96 hours | LC50 | >100 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| propan-2-ol | 67-63-0 | Water flea | Experimental | 48 hours | EC50 | >1,000 mg/l |
| propan-2-ol | 67-63-0 | Green algae | Experimental | 72 hours | NOEC | 1,000 mg/l |
| propan-2-ol | 67-63-0 | Water flea | Experimental | 21 days | NOEC | 100 mg/l |
| Carbon dioxide. | 124-38-9 | Fish | Experimental | 96 hours | LC50 | 112.2 mg/l |
| Carbon dioxide. | 124-38-9 | Atlantic Salmon | Experimental | 43 days | NOEC | 26 mg/l |
| propane | 74-98-6 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| n-hexane | 110-54-3 | Fathead minnow | Experimental | 96 hours | LC50 | 2.5 mg/l |
| n-hexane | 110-54-3 | Water flea | Experimental | 48 hours | LC50 | 3.9 mg/l |

### 12.2. Persistence and degradability

| Material | Identifier(s) | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | Estimated Biodegradation | 28 days | BOD | 98 %BOD/COD | OECD 301F - Manometric respirometry |
| isobutane | 75-28-5 | Experimental Photolysis | | Photolytic half-life (in air) | 13.4 days (t 1/2) | |
| propan-2-ol | 67-63-0 | Experimental Biodegradation | 14 days | BOD | 86 %BOD/ThOD | OECD 301C - MITI test (I) |
| Carbon dioxide. | 124-38-9 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| propane | 74-98-6 | Experimental Photolysis | | Photolytic half-life (in air) | 27.5 days (t 1/2) | |
| n-hexane | 110-54-3 | Experimental Bioconcentration | 28 days | BOD | 100 %BOD/ThOD | OECD 301C - MITI test (I) |
| n-hexane | 110-54-3 | Experimental Photolysis | | Photolytic half-life (in air) | 5.4 days (t 1/2) | |

### 12.3 : Bioaccumulative potential

| Material | Identifier(s) | 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 |
| isobutane | 75-28-5 | Experimental Bioconcentration | | Log Kow | 2.76 | |
| propan-2-ol | 67-63-0 | Experimental Bioconcentration | | Log Kow | 0.05 | |
| Carbon dioxide. | 124-38-9 | Experimental Bioconcentration | | Log Kow | 0.83 | |
| propane | 74-98-6 | Experimental Bioconcentration | | Log Kow | 2.36 | |
| n-hexane | 110-54-3 | Modeled Bioconcentration | | Bioaccumulation factor | 50 | Catalogic™ |

### 12.4. Mobility in soil

No test data available.

### 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)**
070704* Other organic solvents, washing liquids and mother liquors
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** | No data available. | No data available. | No data available. |
| **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**

**Authorization status under REACH:**
The following substance/s contained in this product might be or is/are subject to authorization in accordance with REACH:

| **Ingredient** | **Identifier(s)** |
|---|---|
| n-hexane | 110-54-3 |

Authorization status: listed in the Candidate List of Substances of Very High Concern for Authorization

**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 environment | 200 | 500 |
| 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 substance/mixture in accordance with Regulation (EC) No 1907/2006, as amended.

## SECTION 16: Other information

**List of relevant H statements**

| | |
|---|---|
| H220 | Extremely flammable gas. |
| H222 | Extremely flammable aerosol. |
| 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. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H361f | Suspected of damaging fertility. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure: nervous system. |
| H411 | Toxic to aquatic life with long lasting effects. |

**List of Relevant Notas**

| | |
|---|---|
| Nota C | Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers. |
| Nota U | When put on the market gases have to be classified as ‘Gases under pressure’, in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.) Press. Gas (Liq.) Press. Gas (Ref. Liq.) Press. Gas (Diss.) Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Nota 2). |

**Revision information:**
Section 8: Occupational exposure limit table information was deleted.
Section 8: Occupational exposure limit table information was modified.
OEL Reg Agency Desc information was deleted.
Section 8: STEL key information was deleted.
Section 8: TWA key information was deleted.

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