# Safety Data Sheet



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|---|---|---|---|
| **Document group:** | 18-7049-2 | **Version number:** | 10.00 |
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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
3M Cavity Wax Spray Amber, 08901

**Product Identification Numbers**

| | |
|---|---|
| UU-0109-4382-5 | XS-0034-9166-8 |
| 7000041373 | 7100232708 |

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

**Identified uses**
Coating.

### 1.3. Details of the supplier of the safety data sheet

| | |
|---|---|
| **Address:** | 3M Ireland Limited, The Iveagh Building, The Park, Carrickmines, Dublin 18. |
| **Telephone:** | +353 1 280 3555 |
| **E Mail:** | tox.uk@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.
The aspiration hazard classification is not required because the product is an aerosol.

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

Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
Specific Target Organ Toxicity-Repeated Exposure, Category 1 - STOT RE 1; H372
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 | CAS Nbr | EC No. | % by Wt |
|---|---|---|---|
| naphtha (petroleum), hydrodesulphurized heavy | 64742-82-1 | 265-185-4 | 25 - 35 |

**HAZARD STATEMENTS:**

| | |
|---|---|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: may burst if heated. |
| H315 | Causes skin irritation. |
| H372 | Causes 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. |
| P260E | Do not breathe 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. |

31% of the mixture consists of components of unknown acute oral toxicity.

**EU VOC Directive (2004/42/EC) labelling:** 2004/42/EC IIB(e)(840)
480g/l

Nota L applied. Nota N applied. Nota P applied.

**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] |
|---|---|---|---|
| naphtha (petroleum), hydrodesulphurized heavy | (CAS-No.) 64742-82-1<br>(EC-No.) 265-185-4 | 25 - 35 | Asp. Tox. 1, H304<br>STOT RE 1, H372<br>Nota P<br>Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Aquatic Chronic 2, H411 |
| butane | (CAS-No.) 106-97-8<br>(EC-No.) 203-448-7 | 25 - 35 | Flam. Gas 1A, H220<br>Liquified gas, H280<br>Nota C,U |
| Petrolatum (petroleum), oxidized | (CAS-No.) 64743-01-7<br>(EC-No.) 265-206-7 | 20 - 30 | Nota N |
| Distillates (petroleum), hydrotreated heavy paraffinic | (CAS-No.) 64742-54-7<br>(EC-No.) 265-157-1 | 5 - 10 | Nota L<br>STOT SE 3, H336<br>EUH066 |
| Sulphonic acids, petroleum, sodium salts | (CAS-No.) 68608-26-4<br>(EC-No.) 271-781-5 | 5 - 8 | Eye Irrit. 2, H319 |
| propane | (CAS-No.) 74-98-6<br>(EC-No.) 200-827-9 | 3 - 7 | Flam. Gas 1A, H220<br>Liquified gas, H280<br>Nota U |
| 2-butoxyethanol | (CAS-No.) 111-76-2<br>(EC-No.) 203-905-0 | < 1 | Acute Tox. 3, H331<br>Acute Tox. 4, H302(LD50 = 1200 mg/kg **ATE values per Annex VI**)<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319 |

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**
Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, 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). 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 |
|---|---|
| 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**
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. 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.

**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**
For industrial/occupational use only. Not for consumer sale or use. Do not use in a confined area with minimal air exchange. 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.) 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**
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 | CAS Nbr | Agency | Limit type | Additional comments |
|---|---|---|---|---|
| butane | 106-97-8 | Ireland OELs | STEL(15 minutes):1000 ppm | |
| 2-butoxyethanol | 111-76-2 | Ireland OELs | TWA(8 hours):98 mg/m3(20 ppm);TWA(8 hours):20 ppm(98 mg/m3);STEL(15 minutes):246 mg/m3(50 ppm);STEL(15 minutes):50 ppm(246 mg/m3) | SKIN |
| Mineral oils, highly-refined oils | 64742-54-7 | Ireland OELs | TWA(inhalable fraction)(8 hours):5 mg/m3 | |
| Stoddard solvent | 64742-82-1 | Ireland OELs | TWA(8 hours):573 mg/m3(100 ppm) | |

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.

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

**8.2. Exposure controls**

**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 |
|---|---|---|
| Neoprene. | No data available | No data available |
| Nitrile rubber. | No data available | No data available |
| Polymer laminate | No data available | No data available |

*Applicable Norms/Standards*
Use gloves tested to EN 374

**Respiratory protection**

In case of inadequate ventilation wear 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 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

# SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Physical state** | Liquid. |
| **Specific Physical Form:** | Aerosol |

| | |
|---|---|
| **Colour** | Brown |
| **Odor** | Turpentine |
| **Odour threshold** | *No data available.* |
| **Melting point/freezing point** | *No data available.* |
| **Boiling point/boiling range** | -44 ºC |
| **Flammability** | Flammable Aerosol: Category 1. |
| **Flammable Limits(LEL)** | 0.7 % volume |
| **Flammable Limits(UEL)** | 8.5 % volume |
| **Flash point** | -97 ºC |
| **Autoignition temperature** | 270 ºC |
| **Decomposition temperature** | *No data available.* |
| **pH** | *substance/mixture is non-soluble (in water)* |
| **Kinematic Viscosity** | *No data available.* |
| **Water solubility** | Negligible |
| **Solubility- non-water** | *No data available.* |
| **Partition coefficient: n-octanol/water** | *No data available.* |
| **Vapour pressure** | 830 Pa [*Details:*(20°C)] |
| **Density** | 0.73 kg/l |
| **Relative density** | 0.73 [*Ref Std:*WATER=1] |
| **Relative Vapour Density** | *No data available.* |
| **Particle Characteristics** | *Not applicable.* |

**9.2. Other information**

**9.2.2 Other safety characteristics**

| | |
|---|---|
| **EU Volatile Organic Compounds** | *No data available.* |
| **Evaporation rate** | *No data available.* |
| **Percent volatile** | 65.27 % |

## 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.

**Eye 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.

**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 |
| butane | Inhalation-Gas (4 hours) | Rat | LC50 277,000 ppm |

| | | | |
|---|---|---|---|
| naphtha (petroleum), hydrodesulphurized heavy | Inhalation-Vapour | | LC50 estimated to be 20 - 50 mg/l |
| naphtha (petroleum), hydrodesulphurized heavy | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| naphtha (petroleum), hydrodesulphurized heavy | Ingestion | Rat | LD50 > 5,000 mg/kg |
| propane | Inhalation-Gas (4 hours) | Rat | LC50 > 200,000 ppm |
| Sulphonic acids, petroleum, sodium salts | Inhalation-Vapour | Professional judgement | LC50 estimated to be > 50 mg/l |
| Sulphonic acids, petroleum, sodium salts | Dermal | similar compounds | LD50 > 5,000 mg/kg |
| Sulphonic acids, petroleum, sodium salts | Inhalation-Dust/Mist (4 hours) | similar compounds | LC50 > 1.9 mg/l |
| Sulphonic acids, petroleum, sodium salts | Ingestion | similar compounds | LD50 > 5,000 mg/kg |
| Distillates (petroleum), hydrotreated heavy paraffinic | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Distillates (petroleum), hydrotreated heavy paraffinic | Ingestion | Rat | LD50 > 5,000 mg/kg |
| 2-butoxyethanol | Dermal | Guinea pig | LD50 > 2,000 mg/kg |
| 2-butoxyethanol | Inhalation-Vapour (4 hours) | Guinea pig | LC50 > 2.6 mg/l |
| 2-butoxyethanol | Ingestion | Guinea pig | LD50 1,200 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| butane | Professional judgement | No significant irritation |
| naphtha (petroleum), hydrodesulphurized heavy | Rabbit | Irritant |
| propane | Rabbit | Minimal irritation |
| Sulphonic acids, petroleum, sodium salts | similar compounds | Minimal irritation |
| Distillates (petroleum), hydrotreated heavy paraffinic | Rabbit | Minimal irritation |
| 2-butoxyethanol | Rabbit | Irritant |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| butane | Rabbit | No significant irritation |
| naphtha (petroleum), hydrodesulphurized heavy | Rabbit | No significant irritation |
| propane | Rabbit | Mild irritant |
| Sulphonic acids, petroleum, sodium salts | Rabbit | Moderate irritant |
| Distillates (petroleum), hydrotreated heavy paraffinic | Rabbit | Mild irritant |
| 2-butoxyethanol | Rabbit | Severe irritant |

**Skin Sensitisation**

| Name | Species | Value |
|---|---|---|
| naphtha (petroleum), hydrodesulphurized heavy | Guinea pig | Not classified |
| Sulphonic acids, petroleum, sodium salts | similar compounds | Some positive data exist, but the data are not sufficient for classification |

| | | |
|---|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | Guinea pig | Not classified |
| 2-butoxyethanol | Guinea pig | 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 |
|---|---|---|
| butane | In Vitro | Not mutagenic |
| naphtha (petroleum), hydrodesulphurized heavy | In vivo | Not mutagenic |
| naphtha (petroleum), hydrodesulphurized heavy | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| propane | In Vitro | Not mutagenic |
| Sulphonic acids, petroleum, sodium salts | In Vitro | Not mutagenic |
| Distillates (petroleum), hydrotreated heavy paraffinic | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 2-butoxyethanol | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name | Route | Species | Value |
|---|---|---|---|
| naphtha (petroleum), hydrodesulphurized heavy | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| naphtha (petroleum), hydrodesulphurized heavy | Inhalation | Human and animal | Some positive data exist, but the data are not sufficient for classification |
| Distillates (petroleum), hydrotreated heavy paraffinic | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| 2-butoxyethanol | Inhalation | Multiple animal species | 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 |
|---|---|---|---|---|---|
| naphtha (petroleum), hydrodesulphurized heavy | Inhalation | Not classified for development | Rat | NOAEL 2.4 mg/l | during organogenesis |
| 2-butoxyethanol | Dermal | Not classified for development | Rat | NOAEL 1,760 mg/kg/day | during gestation |
| 2-butoxyethanol | Ingestion | Not classified for development | Rat | NOAEL 100 mg/kg/day | during organogenesis |
| 2-butoxyethanol | Inhalation | Not classified for development | Multiple animal species | NOAEL 0.48 mg/l | during organogenesis |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| 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 | |
| naphtha (petroleum), hydrodesulphurized heavy | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| naphtha (petroleum), hydrodesulphurized heavy | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| naphtha (petroleum), hydrodesulphurized heavy | Inhalation | nervous system | Not classified | Dog | NOAEL 6.5 mg/l | 4 hours |
| naphtha (petroleum), hydrodesulphurized heavy | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| 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 | |
| Distillates (petroleum), hydrotreated heavy paraffinic | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| Distillates (petroleum), hydrotreated heavy paraffinic | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| 2-butoxyethanol | Dermal | endocrine system | Not classified | Rabbit | NOAEL 902 mg/kg | 6 hours |
| 2-butoxyethanol | Dermal | liver | Not classified | Rabbit | LOAEL 72 mg/kg | not available |
| 2-butoxyethanol | Dermal | kidney and/or bladder | Not classified | Rabbit | LOAEL 451 mg/kg | 6 hours |
| 2-butoxyethanol | Dermal | blood | Not classified | Multiple animal species | NOAEL Not available | |
| 2-butoxyethanol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| 2-butoxyethanol | Inhalation | central nervous system depression | Not classified | Professional judgement | NOAEL Not available | |
| 2-butoxyethanol | Inhalation | blood | Not classified | Multiple animal species | NOAEL Not available | |
| 2-butoxyethanol | Ingestion | central nervous system depression | Not classified | Professional judgement | NOAEL Not available | |
| 2-butoxyethanol | Ingestion | blood | Not classified | Multiple animal species | NOAEL Not available | |
| 2-butoxyethanol | Ingestion | kidney and/or bladder | Not classified | Human | NOAEL Not available | poisoning and/or abuse |

**Specific Target Organ Toxicity - repeated exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| butane | Inhalation | kidney and/or bladder \| blood | Not classified | Rat | NOAEL 4,489 ppm | 90 days |
| naphtha (petroleum), hydrodesulphurized heavy | Inhalation | nervous system | Not classified | Rat | LOAEL 4.6 mg/l | 6 months |
| naphtha (petroleum), hydrodesulphurized heavy | Inhalation | kidney and/or bladder | Not classified | Rat | LOAEL 1.9 mg/l | 13 weeks |
| naphtha (petroleum), hydrodesulphurized heavy | Inhalation | respiratory system | Not classified | Multiple animal | NOAEL 0.6 mg/l | 90 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | species | | |
| naphtha (petroleum), hydrodesulphurized heavy | Inhalation | bone, teeth, nails, and/or hair \| blood \| liver \| muscles | Not classified | Rat | NOAEL 5.6 mg/l | 12 weeks |
| naphtha (petroleum), hydrodesulphurized heavy | Inhalation | heart | Not classified | Multiple animal species | NOAEL 1.3 mg/l | 90 days |
| Distillates (petroleum), hydrotreated heavy paraffinic | Inhalation | respiratory system | Not classified | Rat | NOAEL 0.21 mg/l | 28 days |
| 2-butoxyethanol | Dermal | blood | Not classified | Multiple animal species | NOAEL Not available | not available |
| 2-butoxyethanol | Dermal | endocrine system | Not classified | Rabbit | NOAEL 150 mg/kg/day | 90 days |
| 2-butoxyethanol | Inhalation | liver | Not classified | Rat | NOAEL 2.4 mg/l | 14 weeks |
| 2-butoxyethanol | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 0.15 mg/l | 14 weeks |
| 2-butoxyethanol | Inhalation | blood | Not classified | Rat | LOAEL 0.15 mg/l | 6 months |
| 2-butoxyethanol | Inhalation | endocrine system | Not classified | Dog | LOAEL 1.9 mg/l | 8 days |
| 2-butoxyethanol | Ingestion | blood | Not classified | Rat | LOAEL 69 mg/kg/day | 13 weeks |
| 2-butoxyethanol | Ingestion | kidney and/or bladder | Not classified | Multiple animal species | NOAEL Not available | not available |

**Aspiration Hazard**

| Name | Value |
|---|---|
| naphtha (petroleum), hydrodesulphurized heavy | 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 |
|---|---|---|---|---|---|---|
| butane | 106-97-8 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| naphtha (petroleum), hydrodesulphurized heavy | 64742-82-1 | Fathead minnow | Analogous Compound | 96 hours | LL50 | 8.2 mg/l |
| naphtha (petroleum), hydrodesulphurized heavy | 64742-82-1 | Green algae | Analogous Compound | 72 hours | EL50 | 3.1 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| naphtha (petroleum), hydrodesulphurized heavy | 64742-82-1 | Water flea | Analogous Compound | 48 hours | EL50 | 4.5 mg/l |
| naphtha (petroleum), hydrodesulphurized heavy | 64742-82-1 | Green algae | Analogous Compound | 72 hours | NOEL | 0.5 mg/l |
| naphtha (petroleum), hydrodesulphurized heavy | 64742-82-1 | Water flea | Analogous Compound | 21 days | NOEL | 2.6 mg/l |
| Petrolatum (petroleum), oxidized | 64743-01-7 | Green algae | Analogous Compound | 72 hours | EL50 | 3,860 mg/l |
| Petrolatum (petroleum), oxidized | 64743-01-7 | Rainbow trout | Analogous Compound | 96 hours | LL50 | 3,540 mg/l |
| Petrolatum (petroleum), oxidized | 64743-01-7 | Water flea | Analogous Compound | 48 hours | LL50 | 7,070 mg/l |
| Petrolatum (petroleum), oxidized | 64743-01-7 | Green algae | Analogous Compound | 72 hours | NOEL | 1,250 mg/l |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | Green algae | Analogous Compound | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | Water flea | Analogous Compound | 48 hours | No tox obs at lmt of water sol | >100 mg/l |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | Fathead minnow | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | Green algae | Analogous Compound | 72 hours | NOEL | 100 mg/l |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | Water flea | Analogous Compound | 21 days | NOEL | 100 mg/l |
| Sulphonic acids, petroleum, sodium salts | 68608-26-4 | Green algae | Experimental | 72 hours | EL50 | >100 mg/l |
| Sulphonic acids, petroleum, sodium salts | 68608-26-4 | Rainbow trout | Experimental | 96 hours | LL50 | >100 mg/l |
| Sulphonic acids, petroleum, sodium salts | 68608-26-4 | Water flea | Experimental | 48 hours | EL50 | >100 mg/l |
| Sulphonic acids, petroleum, sodium salts | 68608-26-4 | Green algae | Experimental | 72 hours | NOEL | 100 mg/l |
| Sulphonic acids, petroleum, sodium salts | 68608-26-4 | Activated sludge | Experimental | 8 hours | EC50 | >=3,200 mg/l |
| propane | 74-98-6 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| 2-butoxyethanol | 111-76-2 | Activated sludge | Experimental | 16 hours | IC50 | >1,000 mg/l |
| 2-butoxyethanol | 111-76-2 | Eastern oyster | Experimental | 96 hours | LC50 | 89.4 mg/l |
| 2-butoxyethanol | 111-76-2 | Green algae | Experimental | 72 hours | ErC50 | 1,840 mg/l |
| 2-butoxyethanol | 111-76-2 | Rainbow trout | Experimental | 96 hours | LC50 | 1,474 mg/l |
| 2-butoxyethanol | 111-76-2 | Water flea | Experimental | 48 hours | EC50 | 1,550 mg/l |
| 2-butoxyethanol | 111-76-2 | Green algae | Experimental | 72 hours | ErC10 | 679 mg/l |
| 2-butoxyethanol | 111-76-2 | Water flea | Experimental | 21 days | NOEC | 100 mg/l |

### 12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| butane | 106-97-8 | Experimental Photolysis | | Photolytic half-life (in air) | 12.3 days (t 1/2) | |
| naphtha (petroleum), | 64742-82-1 | Estimated | | Photolytic half-life | 13 days (t 1/2) | |

| | | | | | | |
|---|---|---|---|---|---|---|
| hydrodesulphurized heavy | | Photolysis | | (in air) | | |
| naphtha (petroleum), hydrodesulphurized heavy | 64742-82-1 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Petrolatum (petroleum), oxidized | 64743-01-7 | Analogous Compound Biodegradation | 28 days | BOD | 55 %BOD/ThOD | OECD 301F - Manometric respirometry |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | Experimental Biodegradation | 28 days | BOD | 31 %BOD/ThOD | OECD 301F - Manometric respirometry |
| Sulphonic acids, petroleum, sodium salts | 68608-26-4 | Analogous Compound Biodegradation | 28 days | BOD | 8.0 %BOD/ThOD | OECD 301D - Closed bottle test |
| propane | 74-98-6 | Experimental Photolysis | | Photolytic half-life (in air) | 27.5 days (t 1/2) | |
| 2-butoxyethanol | 111-76-2 | Experimental Biodegradation | 28 days | CO2 evolution | 90.4 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| 2-butoxyethanol | 111-76-2 | Experimental Biodegradation | 28 days | Dissolv. Organic Carbon Deplet | 100 %removal of DOC | OECD 302B Zahn-Wellens/EVPA |

### 12.3 : Bioaccumulative potential

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| butane | 106-97-8 | Experimental Bioconcentration | | Log Kow | 2.89 | |
| naphtha (petroleum), hydrodesulphurized heavy | 64742-82-1 | Experimental Bioconcentration | | Bioaccumulation factor | >1000 | |
| Petrolatum (petroleum), oxidized | 64743-01-7 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | Modeled Bioconcentration | | Bioaccumulation factor | 7.5 | Catalogic™ |
| Sulphonic acids, petroleum, sodium salts | 68608-26-4 | Analogous Compound Bioconcentration | | Log Kow | >6.0 | |
| propane | 74-98-6 | Experimental Bioconcentration | | Log Kow | 2.36 | |
| 2-butoxyethanol | 111-76-2 | Experimental Bioconcentration | | Log Kow | 0.81 | |

### 12.4. Mobility in soil

| Material | Cas No. | Test type | Study Type | Test result | Protocol |
|---|---|---|---|---|---|
| 2-butoxyethanol | 111-76-2 | Estimated Mobility in Soil | Koc | 67 l/kg | |

### 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. 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)**
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(NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY) |
| **14.3 Transport hazard class(es)** | 2.1 | 2.1 | 2.2 |
| **14.4 Packing group** | Not applicable. | Not applicable. | Not applicable. |
| **14.5 Environmental hazards** | Environmentally Hazardous | Not applicable | 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**

**Carcinogenicity**

| Ingredient | CAS Nbr | Classification | Regulation |
|---|---|---|---|
| 2-butoxyethanol | 111-76-2 | Gr. 3: Not classifiable | International Agency for Research on Cancer |

**Global inventory status**
Contact 3M for more information.

**DIRECTIVE 2012/18/EU**
Seveso hazard categories, Annex 1, Part 1
None

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**

| | |
|---|---|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| 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. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |

| | |
|---|---|
| H336 | May cause drowsiness or dizziness. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H372 | Causes damage to organs through prolonged or repeated exposure: nervous system. |
| H411 | Toxic to aquatic life with long lasting effects. |

**Revision information:**
Section 02: CLP Physical and Health Hazard Statements information was modified.
Label: CLP Precautionary - Storage 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: Occupational exposure limit table information was modified.
OEL Reg Agency Desc information was modified.
Section 9: Flammability (solid, gas) information information was deleted.
Section 09: Flammability information information was added.
Section 09: Particle Characteristics N/A information was added.
Section 9: Vapour density value information was modified.
Section 11: Acute Toxicity 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: Single exposure may cause standard phrases information was modified.
Section 11: Skin Corrosion/Irritation Table information was modified.
Section 11: Skin Sensitization Table information was modified.
Section 11: Target Organs - Repeated Table information was added.
Section 11: Target Organs - Repeated Table information was deleted.
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 added.
Section 12: No Data text for mobility in soil information was deleted.
Section 12: Persistence and Degradability information information was modified.
Section 12:Bioccumulative potential information information was modified.
Section 14 Classification Code – Regulation Data information was modified.
Section 14 Control Temperature – Regulation Data information was modified.
Section 14 Emergency Temperature – Regulation Data information was modified.
Section 14 Multiplier – Main Heading information was deleted.
Section 14 Multiplier – Regulation Data information was deleted.
Section 14 Other Dangerous Goods – Regulation Data information was modified.
Section 14 Packing Group – Regulation Data information was modified.
Section 14 Segregation – Regulation Data information was modified.
Section 14 Transport Category – Main Heading information was deleted.
Section 14 Transport Category – Regulation Data information was deleted.
Section 14 Transport in bulk – Regulation Data information was modified.
Section 14 Marine transport in bulk according to IMO instruments – Main Heading information was modified.
Section 14 Transport Not Permitted – Main Heading information was deleted.
Section 14 Transport Not Permitted – Regulation Data information was deleted.
Section 14 Tunnel Code – Main Heading information was deleted.
Section 14 Tunnel Code – Regulation Data information was deleted.
Section 14 UN Number information was modified.
Section 15: Regulations - Inventories information was added.
Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was modified.
Section 2: No PBT/vPvB information available warning information was added.

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