

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 3M 1617 Zinc Spray

Product identification numbers DE-9999-5337-0

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

Identified uses

A spray used as a protective film on primer on metal parts

1.3. Details of the supplier of the substance or mixture

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.

E Mail: tox.uk@mmm.com Website: www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive Indication of danger Extremely flammable; F+; R12 Irritant; Xi; R36 Sensitizing; R43 R66 R67 Dangerous for the environment; N; R50/53

For full text of R phrases, see Section 16.

2.2. Label elements

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

Symbol(s)



Dangerous for the environment

Contains:

Extremely

Flammable

No ingredients are assigned to the label.

| rush phi uses | |
|----------------|--|
| R12 | Extremely flammable. |
| R36 | Irritating to eyes. |
| R43 | May cause sensitisation by skin contact. |
| R66 | Repeated exposure may cause skin dryness or cracking. |
| R67 | Vapours may cause drowsiness and dizziness. |
| R50/53 | Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. |
| Safety phrases | |

| S16 | Keep away from sources of ignition - No Smoking. |
|------|---|
| S23C | Do not breathe vapour or spray. |
| S51 | Use only in well ventilated areas. |
| S24 | Avoid contact with skin. |
| S37 | Wear suitable gloves. |
| S61 | Avoid release to the environment. Refer to special instructions/safety data sheets. |
| S2 | Keep out of the reach of children. |
| | |

Special provisions concerning the labelling of certain substances

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Notes on labelling

R65 is not required on the label because the product is an aerosol.

Nota P is applied for CAS#64742-95-6

2.3. Other hazards

None known.

| CECTION 1 (| • • • • • • • | • • • |
|--------------|-------------------------|-----------------|
| INDUTION SOC | composition/information | on ingredients |
| | omposition/ mior mation | i on marculents |

| Ingredient | CAS Nbr | EU Inventory | % by Wt | Classification |
|------------|-----------|----------------------|---------|--|
| Zinc | 7440-66-6 | EINECS 231- 175-3 | 20 - 50 | F:R15-17; N:R50/53 (EU) |
| | | 175-5 | | Aquatic Acute 1, H400,M=10; Aquatic Chronic 1, H410,M=1 |
| | | | | (CLP) |

| Acetone | 67-64-1 | EINECS 200- 662-2 | 10 - 30 | F:R11; Xi:R36; R66; R67 (EU) |
|---|------------|----------------------|---------|---|
| | | | | Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336; EUH066 (CLP) |
| Butane | 106-97-8 | EINECS 203- 448-7 | 15 30 | F+:R12 - Nota C (EU) Flam. Gas 1, H220; Liquified |
| | | | | gas, H280 - Nota C,U (CLP) |
| Propane | 74-98-6 | EINECS 200- 827-9 | 5 - 10 | F+:R12 (EU) |
| | | | | Flam. Gas 1, H220; Liquified gas, H280 - Nota U (CLP) |
| Solvent naphtha (petroleum), light aromatic | 64742-95-6 | EINECS 265- 199-0 | 5 - 10 | Xn:R65 - Nota 4,P (EU) R10 (Vendor) Xi:R38; R67 (Self Classified) |
| | | | | Asp. Tox. 1, H304 - Nota P (CLP) Flam. Liq. 3, H226 (Vendor) |
| | | | | Skin Irrit. 2, H315 (Self Classified) |
| Xylene | 1330-20-7 | EINECS 215- 535-7 | 5 - 10 | Xn:R20-21; Xi:R38; R10 - Nota C (EU) |
| | | | | Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315 - Nota C (CLP) |
| Zinc oxide | 1314-13-2 | EINECS 215- 222-5 | 1 - 5 | N:R50/53 (EU) |
| | | | | Aquatic Acute 1, H400,M=10; Aquatic Chronic 1, H410,M=1 (CLP) |
| Bentone | None | | <= 1 | |
| 2-Butanone oxime | 96-29-7 | EINECS 202- 496-6 | <= 1 | Carc.Cat.3:R40; Xn:R21; Xi:R41; R43 (EU) R52/53 (Self Classified) |
| Discourse and the full tout of our I | | | | Acute Tox. 4, H312; Eye Dam. 1, H318; Skin Sens. 1, H317; Carc. 2, H351 (CLP) |

Please see section 16 for the full text of any R phrases and H statements referred to in this section Please refer to section 15 for the any applicable Notas that have been applied to the above components

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

Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye contact

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

If swallowed

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

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

See Section 11.1 Information on toxicological effects

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

| <u>Condition</u> |
|--------------------|
| During combustion. |
| During combustion. |
| During combustion. |
| |

5.3. Advice for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

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. An appropriate aqueous film forming foam (AFFF) is recommended. 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 toxic, corrosivity or flammability 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 or areas with little or no air movement. Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: 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 release to the environment. 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. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. 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

| Ingredient Butane | CAS Nbr 106-97-8 | Agency Health and Safety Comm. (UK) | Limit type TWA:1450 mg/m ³ (600 ppm);STEL:1810 mg/m ³ (750 ppm) | Additional comments |
|-----------------------------|----------------------------|--|--|---------------------|
| Xylene | 1330-20-7 | Health and Safety Comm. (UK) | TWA:220 mg/m3(50 ppm);STEL:441 mg/m3(100 ppm) | Skin Notation |
| Acetone | 67-64-1 | Health and Safety Comm. (UK) | TWA:1210 mg/m ³ (500 ppm);STEL:3620 mg/m ³ (1500 ppm) | |
| Propane | 74-98-6 | Health and Safety Comm. (UK) | Limit value not established: | asphyxiant |

Health and Safety Comm. (UK) : UK Health and Safety Commission TWA: Time-Weighted-Average STEL: Short Term Exposure Limit ppm: parts per million mg/m³: milligrams per cubic metre CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Do not remain in area where available oxygen may be reduced. Provide ventilated enclosure for heat curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. 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

Wear eye/face protection. The following eye protection(s) are recommended: Indirect vented goggles.

Skin/hand protection

Wear protective gloves. Gloves made from the following material(s) are recommended: Butyl rubber. Polymer laminate

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 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state | Liquid. |
|--|---|
| Specific Physical Form: | Aerosol |
| Appearance/Odour | Grey, solvent odour. |
| Odour threshold | No data available. |
| рН | No data available. |
| Boiling point/boiling range | No data available. |
| Melting point | No data available. |
| Flammability (solid, gas) | Not applicable. |
| Explosive properties | Not classified |
| Oxidising properties | Not classified |
| Flash point | -104 °C [Details: Propellant's flash point] |
| Autoignition temperature | No data available. |
| Flammable Limits(LEL) | No data available. |
| Flammable Limits(UEL) | No data available. |
| Vapour pressure | No data available. |
| Relative density | No data available. |
| Water solubility | Nil |
| Solubility- non-water | No data available. |
| Partition coefficient: n-octanol/water | No data available. |
| Evaporation rate | No data available. |
| Vapour density | No data available. |
| Vapour density | No data available. |
| Decomposition temperature | No data available. |
| Viscosity | No data available. |

Density

0.95 g/cm3

9.2. Other information Volatile organic compounds (VOC) Percent volatile VOC less H2O & exempt solvents

No data available. No data available. 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. Sparks and/or flames. Temperatures above the boiling point. High shear and high temperature conditions

10.5 Incompatible materials

Strong acids. Explosive when mixed with oxidizing substances.

10.6 Hazardous decomposition products

Substance None known. **Condition**

SECTION 11: Toxicological information

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

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation

Intentional concentration and inhalation may be harmful or fatal. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause target organ effects after inhalation.

Skin contact

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

Eye contact

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

Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause target organ effects after ingestion.

Target Organ Effects:

Single exposure may cause:

Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness. Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

Single exposure, above recommended guidelines, may cause:

Cardiac sensitisation: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

Prolonged or repeated exposure may cause:

Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Neurological effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and changes in blood pressure and heart rate.

Toxicological Data

| Name | Route | Species | Value |
|------------------------------------|----------------------|---------|--|
| Overall product | Ingestion | | Data not available or insufficient for |
| | | | classification; calculated ATE >5,000 |
| | | | mg/kg |
| Zinc | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Zinc | Inhalation-Dust/Mist | Rat | LC50 > 5.4 mg/l |
| Zinc | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Acetone | Dermal | Rabbit | LD50 > 15,688 mg/kg |
| Acetone | Inhalation-Vapor (4 | Rat | LC50 76 mg/l |
| | hours) | | |
| Acetone | Ingestion | Rat | LD50 5,800 mg/kg |
| Butane | Inhalation-Gas (4 | Rat | LC50 277,000 ppm |
| | hours) | | |
| Propane | Inhalation-Gas (4 | Rat | LC50 > 200,000 ppm |
| | hours) | | |
| Solvent naphtha (petroleum), light | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| aromatic | | | |
| Xylene | Dermal | Rabbit | LD50 > 4,200 mg/kg |
| Solvent naphtha (petroleum), light | Inhalation-Vapor (4 | Rat | LC50 > 5.2 mg/l |
| aromatic | hours) | | |
| Solvent naphtha (petroleum), light | Ingestion | Rat | LD50 > 5,000 mg/kg |
| aromatic | | | |
| Xylene | Inhalation-Vapor (4 | Rat | LC50 29 mg/l |
| | hours) | | |
| Xylene | Ingestion | Rat | LD50 3,523 mg/kg |
| Zinc oxide | Dermal | | LD50 estimated to be $>$ 5,000 mg/kg |
| Zinc oxide | Inhalation-Dust/Mist | Rat | LC50 > 5.7 mg/l |
| | (4 hours) | | |
| Zinc oxide | Ingestion | Rat | LD50 > 5,000 mg/kg |
| 2-Butanone oxime | Dermal | Rabbit | LD50 > 1,000 mg/kg |
| 2-Butanone oxime | Inhalation-Vapor | Rat | LC50 estimated to be 20 - 50 mg/l |

Acute Toxicity

| 2-Butanone oxime | Ingestion | Rat | LD50 2,300 mg/kg |
|-------------------------------|-----------|-----|------------------|
| ATE - gouto toxigity actimate | | | |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|------------------|--|
| Zinc | | Data not available or insufficient for classification |
| Acetone | Mouse | Minimal irritation |
| Butane | | No significant irritation |
| Propane | Rabbit | Minimal irritation |
| Solvent naphtha (petroleum), light aromatic | | Minimal irritation |
| Xylene | Rabbit | Mild irritant |
| Zinc oxide | Human and animal | No significant irritation |
| 2-Butanone oxime | | Data not available or insufficient for classification |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|---------|--|
| Zinc | | Data not available or insufficient for |
| | | classification |
| Acetone | Rabbit | Severe irritant |
| Butane | Rabbit | No significant irritation |
| Propane | Rabbit | Mild irritant |
| Solvent naphtha (petroleum), light aromatic | | Mild irritant |
| Xylene | Rabbit | Mild irritant |
| Zinc oxide | Rabbit | Mild irritant |
| 2-Butanone oxime | | Data not available or insufficient for |
| | | classification |

Skin Sensitisation

| Name | Species | Value |
|---|------------|--|
| Zinc | | Data not available or insufficient for |
| | | classification |
| Acetone | | Data not available or insufficient for |
| | | classification |
| Butane | | Data not available or insufficient for |
| | | classification |
| Propane | | Data not available or insufficient for |
| | | classification |
| Solvent naphtha (petroleum), light aromatic | | Not sensitizing |
| Xylene | | Data not available or insufficient for |
| | | classification |
| Zinc oxide | Guinea pig | Some positive data exist, but the data are not |
| | | sufficient for classification |
| 2-Butanone oxime | | Data not available or insufficient for |
| | | classification |

Respiratory Sensitisation

| Name | Species | Value |
|---|---------|--|
| Zinc | | Data not available or insufficient for |
| | | classification |
| Acetone | | Data not available or insufficient for |
| | | classification |
| Butane | | Data not available or insufficient for |
| | | classification |
| Propane | | Data not available or insufficient for |
| | | classification |
| Solvent naphtha (petroleum), light aromatic | | Data not available or insufficient for |
| | | classification |

| Xylene | Data not available or insufficient for classification |
|------------------|---|
| Zinc oxide | Data not available or insufficient for classification |
| 2-Butanone oxime | Data not available or insufficient for classification |

Germ Cell Mutagenicity

| Name | Route | Value |
|---|----------|--|
| Zinc | | Data not available or insufficient for |
| | | classification |
| Acetone | In vivo | Not mutagenic |
| Acetone | In Vitro | Some positive data exist, but the data are not |
| | | sufficient for classification |
| Butane | In Vitro | Not mutagenic |
| Propane | In Vitro | Not mutagenic |
| Solvent naphtha (petroleum), light aromatic | In Vitro | Some positive data exist, but the data are not |
| | | sufficient for classification |
| Xylene | In Vitro | Not mutagenic |
| Xylene | In vivo | Not mutagenic |
| Zinc oxide | In Vitro | Some positive data exist, but the data are not |
| | | sufficient for classification |
| Zinc oxide | In vivo | Some positive data exist, but the data are not |
| | | sufficient for classification |
| 2-Butanone oxime | | Data not available or insufficient for |
| | | classification |

Carcinogenicity

| Name | Route | Species | Value |
|------------------------------------|----------------|-----------------|--|
| Zinc | | | Data not available or insufficient for |
| | | | classification |
| Acetone | Not specified. | Multiple animal | Not carcinogenic |
| | | species | |
| Butane | | | Data not available or insufficient for |
| | | | classification |
| Propane | | | Data not available or insufficient for |
| | | | classification |
| Solvent naphtha (petroleum), light | Dermal | | Not carcinogenic |
| aromatic | | | |
| Solvent naphtha (petroleum), light | Inhalation | | Some positive data exist, but the data |
| aromatic | | | are not sufficient for classification |
| Xylene | Dermal | Rat | Not carcinogenic |
| Xylene | Ingestion | Multiple animal | Not carcinogenic |
| | | species | - |
| Xylene | Inhalation | Human | Some positive data exist, but the data |
| - | | | are not sufficient for classification |
| Zinc oxide | | | Data not available or insufficient for |
| | | | classification |
| 2-Butanone oxime | | | Data not available or insufficient for |
| | | | classification |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|---------|-----------|---|---------|-----------------|--------------------------|
| Zinc | | Data not available or insufficient for classification | | | |
| Acetone | Ingestion | Not toxic to female reproduction | Mouse | NOAEL 11,298 | 13 weeks |

| | | | | mg/kg/day | |
|---|------------|---|----------------------------|-----------------------------|---------------------------------|
| Acetone Ingestion | | Some positive male reproductive data exist, but the data are not sufficient for classification | Rat | NOAEL 1,700 mg/kg/day | 13 weeks |
| Acetone Inhalation | | Some positive developmental data exist, but the data are not sufficient for classification | Rat | NOAEL 5.2 mg/l | during organogenesis |
| Butane | | Data not available or insufficient for classification | | | |
| Propane | | Data not available or insufficient for classification | | | |
| Solvent naphtha (petroleum), light aromatic | Inhalation | Some positive reproductive/develop mental data exist, but the data are not sufficient for classification | | NOEL 500 ppm | |
| Xylene | Ingestion | Not toxic to female reproduction | Mouse | NOAEL 1,000 mg/kg/day | 103 weeks |
| Xylene | Ingestion | Not toxic to male reproduction | Mouse | NOAEL 1,000 mg/kg/day | 103 weeks |
| Xylene | Inhalation | Some positive female reproductive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |
| Xylene Ingestion Some develo exist, not su | | Some positive developmental data exist, but the data are not sufficient for classification | Mouse | NOAEL Not available | during organogenesis |
| Xylene Inhalation Some pos developm exist, but not suffici | | Some positive developmental data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL Not available | during gestation |
| Zinc oxide | Ingestion | Some positive reproductive/develop mental data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL 125 mg/kg/day | premating & during gestation |
| 2-Butanone oxime | | Data not available or insufficient for classification | | | |

Lactation

| Name | Route | Species | Value |
|--------|-----------|---------|----------------------------------|
| Xylene | Ingestion | Mouse | Does not cause effects on or via |
| | | | lactation |

Target Organ(s)

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--|------------|---|--|---------------------|------------------------|---------------------------|
| Zinc | | | Data not available or insufficient for classification | | | |
| Acetone | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Acetone | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Acetone | Inhalation | immune system | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL 1.19 mg/l | 6 hours |
| Acetone | Inhalation | liver | Some positive data exist, but the data are not sufficient for classification | Guinea pig | NOAEL Not available | |
| Acetone | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |
| Butane | Inhalation | cardiac sensitization | 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 | Some positive data exist, but the data are not sufficient for classification | Dog | NOAEL 5,000 ppm | 25 minutes |
| Butane | Inhalation | respiratory irritation | All data are negative | Rabbit | NOAEL Not available | |
| Propane | Inhalation | cardiac sensitization | 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 | All data are negative | Human | NOAEL Not available | |
| Xylene | Inhalation | auditory system | Causes damage to organs | Rat | LOAEL 6.3 mg/l | 8 hours |
| Xylene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Solvent naphtha (petroleum), light aromatic | Inhalation | central nervous system depression | May cause drowsiness or dizziness | | NOAEL N/A | |
| Xylene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |

Specific Target Organ Toxicity - single exposure

| Solvent naphtha (petroleum), light aromatic Xylene | Inhalation Inhalation | respiratory irritation eyes | Some positive data exist, but the data are not sufficient for classification Some positive data exist, but the data are not sufficient for | Rat | Irritation Positive NOAEL 3.5 mg/l | not available |
|--|--------------------------|---|--|----------------------------|---|----------------|
| Xylene | Inhalation | liver | classification Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL Not available | |
| Xylene | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Multiple animal species | NOAEL Not available | |
| Solvent naphtha (petroleum), light aromatic | Ingestion | central nervous system depression | May cause drowsiness or dizziness | | NOAEL N/A | |
| Xylene | Ingestion | eyes | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 250 mg/kg | not applicable |
| Zinc oxide | | | Data not available or insufficient for classification | | | |
| 2-Butanone oxime | | | Data not available or insufficient for classification | | | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---------|------------|--------------------------|--|------------|------------------------|----------------------|
| Zinc | | | Data not available or insufficient for classification | | | |
| Acetone | Dermal | eyes | Some positive data exist, but the data are not sufficient for classification | Guinea pig | NOAEL Not available | 3 weeks |
| Acetone | Inhalation | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL 3 mg/l | 6 weeks |
| Acetone | Inhalation | immune system | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL 1.19 mg/l | 6 days |
| Acetone | Inhalation | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Guinea pig | NOAEL 119 mg/l | not available |
| Acetone | Inhalation | heart liver | All data are | Rat | NOAEL 45 mg/l | 8 weeks |

| | | | negative | | | |
|--|------------|--|--|----------------------------|---------------------------|----------|
| Acetone | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 900 mg/kg/day | 13 weeks |
| Acetone | Ingestion | heart | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 2,500 mg/kg/day | 13 weeks |
| Acetone | Ingestion | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 200 mg/kg/day | 13 weeks |
| Acetone | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL 3,896 mg/kg/day | 14 days |
| Acetone | Ingestion | eyes | All data are negative | Rat | NOAEL 3,400 mg/kg/day | 13 weeks |
| Acetone | Ingestion | respiratory system | All data are negative | Rat | NOAEL 2,500 mg/kg/day | 13 weeks |
| Acetone | Ingestion | muscles | All data are negative | Rat | NOAEL 2,500 mg/kg | 13 weeks |
| Acetone | Ingestion | skin bone, teeth, nails, and/or hair | All data are negative | Mouse | NOAEL 11,298 mg/kg/day | 13 weeks |
| Butane | Inhalation | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 4,489 ppm | 90 days |
| Butane | Inhalation | blood | All data are negative | Rat | NOAEL 4,489 ppm | 90 days |
| Propane | | | Data not available or insufficient for classification | | | |
| Xylene | Inhalation | nervous system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.4 mg/l | 4 weeks |
| Xylene | Inhalation | auditory system | May cause damage to organs though prolonged or repeated exposure | Rat | LOAEL 7.8 mg/l | 5 days |
| Xylene | Inhalation | liver | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL Not available | |
| Solvent naphtha (petroleum), light aromatic | Inhalation | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | | NOEL 12.6 mg/l | |
| Solvent naphtha | Inhalation | hematopoietic system liver | Some positive data exist, but the | | NOEL 0.9 mg/l | |

| (petroleum), light aromatic | | | data are not sufficient for classification | | | |
|--------------------------------|------------|--|--|----------------------------|--------------------------|-----------|
| Xylene | Inhalation | heart endocrine system hematopoietic system muscles kidney and/or bladder respiratory system | All data are negative | Multiple animal species | NOAEL 3.5 mg/l | 13 weeks |
| Xylene | Ingestion | auditory system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 900 mg/kg/day | 2 weeks |
| Xylene | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1,500 mg/kg/day | 90 days |
| Xylene | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL Not available | |
| Xylene | Ingestion | heart skin endocrine system bone, teeth, nails, and/or hair hematopoietic system immune system nervous system respiratory system | All data are negative | Mouse | NOAEL 1,000 mg/kg/day | 103 weeks |
| Zinc oxide | Ingestion | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 600 mg/kg/day | 10 days |
| Zinc oxide | Ingestion | endocrine system hematopoietic system kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Other | NOAEL 500 mg/kg/day | 6 months |
| 2-Butanone oxime | | | Data not available or insufficient for classification | | | |

Aspiration Hazard

| Name | Value |
|---|--------------------------|
| Zinc | Not an aspiration hazard |
| Acetone | Not an aspiration hazard |
| Butane | Not an aspiration hazard |
| Propane | Not an aspiration hazard |
| Solvent naphtha (petroleum), light aromatic | Aspiration hazard |
| Xylene | Aspiration hazard |
| Zinc oxide | Not an aspiration hazard |
| 2-Butanone oxime | Not an aspiration hazard |

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:

GHS Acute 1: Very toxic to aquatic life.

Chronic aquatic hazard:

GHS Chronic 1: Very toxic to aquatic life with long lasting effects.

No product test data available.

| Material | CAS Nbr | Organism | Туре | Exposure | Test endpoint | Test result |
|--|------------|-------------------|--|----------|---------------|-------------|
| Acetone | 67-64-1 | Water flea | Experimental | 48 hours | EC50 | 13,500 mg/l |
| Acetone | 67-64-1 | Green Algae | Experimental | 96 hours | EC50 | 2,574 mg/l |
| Acetone | 67-64-1 | Rainbow trout | Experimental | 96 hours | LC50 | 5,540 mg/l |
| Butane | 106-97-8 | | Data not available or insufficient for classification | | | |
| Solvent naphtha (petroleum), light aromatic | 64742-95-6 | | Data not available or insufficient for classification | | | |
| 2-Butanone oxime | 96-29-7 | Water flea | Experimental | 48 hours | EC50 | 200 mg/l |
| 2-Butanone oxime | 96-29-7 | Green algae | Experimental | 72 hours | NOEC | 2.6 mg/l |
| 2-Butanone oxime | 96-29-7 | Water flea | Experimental | 21 days | NOEC | >100 mg/l |
| 2-Butanone oxime | 96-29-7 | Green algae | Experimental | 72 hours | EC50 | 16 mg/l |
| Propane | 74-98-6 | | Data not available or insufficient for classification | | | |
| Xylene | 1330-20-7 | Green algae | Experimental | 72 hours | NOEC | 0.73 mg/l |
| Xylene | 1330-20-7 | Water flea | Experimental | 21 days | NOEC | 0.41 mg/l |
| Xylene | 1330-20-7 | Green algae | Experimental | 72 hours | EC50 | 0.8 mg/l |
| Xylene | 1330-20-7 | Water flea | Experimental | 48 hours | EC50 | 1.1 mg/l |
| Xylene | 1330-20-7 | Rainbow trout | Experimental | 96 hours | LC50 | 2.6 mg/l |
| Zinc | 7440-66-6 | Green Algae | Experimental | 72 hours | EC50 | 0.106 mg/l |
| Zinc | 7440-66-6 | Chinook Salmon | Experimental | 96 hours | LC50 | 0.182 mg/l |

| Zinc | 7440-66-6 | Rainbow trout | Experimental | 30.44 days | NOEC | 0.036 mg/l |
|------------|-----------|---------------|--------------|------------|------|------------|
| Zinc | 7440-66-6 | Water flea | Experimental | 48 hours | EC50 | 0.07 mg/l |
| Zinc oxide | 1314-13-2 | Green Algae | Experimental | 72 hours | EC50 | 0.046 mg/l |
| Zinc oxide | 1314-13-2 | Water flea | Experimental | 48 hours | EC50 | 3.2 mg/l |
| Zinc oxide | 1314-13-2 | Green Algae | Experimental | 72 hours | NOEC | 0.021 mg/l |
| Zinc oxide | 1314-13-2 | Chinook | Experimental | 96 hours | LC50 | 0.23 mg/l |
| | | Salmon | | | | |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|----------------|------------|------------------|----------|------------------|-------------------|------------------|
| Acetone | 67-64-1 | Estimated | | Photolytic half- | 80 days (t 1/2) | Other methods |
| | | Photolysis | | life (in air) | | |
| Acetone | 67-64-1 | Experimental | | Photolytic half- | 146.5 days (t | Other methods |
| | | Photolysis | | life (in air) | 1/2) | |
| Butane | 106-97-8 | Experimental | | Photolytic half- | 6.3 days (t 1/2) | Other methods |
| | | Photolysis | | life (in air) | • • • • | |
| Propane | 74-98-6 | Experimental | | Photolytic half- | 27.5 days (t | Other methods |
| - | | Photolysis | | life (in air) | 1/2) | |
| Xylene | 1330-20-7 | Laboratory | | Photolytic half- | 1.4 days (t 1/2) | Other methods |
| 2 | | Photolysis | | life (in air) | | |
| 2-Butanone | 96-29-7 | Modeled | | Photolytic half- | 21.6 days (t | Other methods |
| oxime | | Photolysis | | life (in air) | 1/2) | |
| Zinc | 7440-66-6 | Data not | N/A | N/A | N/A | N/A |
| | | available or | | | | |
| | | insufficient for | | | | |
| | | classification | | | | |
| 2-Butanone | 96-29-7 | Experimental | | Hydrolytic | 18 days (t 1/2) | Other methods |
| oxime | | Hydrolysis | | half-life | | |
| Butane | 106-97-8 | Data not | N/A | N/A | N/A | N/A |
| | | available or | | | | |
| | | insufficient for | | | | |
| | | classification | | | | |
| Propane | 74-98-6 | Data not | N/A | N/A | N/A | N/A |
| - | | available or | | | | |
| | | insufficient for | | | | |
| | | classification | | | | |
| Zinc oxide | 1314-13-2 | Estimated | | Hydrolytic | 10 hours (t 1/2) | Other methods |
| | | Hydrolysis | | half-life | | |
| Solvent | 64742-95-6 | Data not | N/A | N/A | N/A | N/A |
| naphtha | | available or | | | | |
| (petroleum), | | insufficient for | | | | |
| light aromatic | | classification | | | | |
| Acetone | 67-64-1 | Experimental | 28 days | BOD | 96 % weight | OECD 301C - MITI |
| | | Biodegradation | - | | - | test (I) |

12.3 : Bioaccumulative potential

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|----------|-----------|--|----------|---------------|-------------|---------------|
| Propane | 74-98-6 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Zinc | 7440-66-6 | Experimental | 11 days | Bioaccumulati | 2386 | Other methods |

| | | BCF - Other | | on factor | | |
|--|------------|--|---------|----------------------------|------|---|
| 2-Butanone oxime | 96-29-7 | Experimental Bioconcentrati on | | Log Kow | 0.63 | Other methods |
| 2-Butanone oxime | 96-29-7 | Experimental BCF - Other | 42 days | Bioaccumulati on factor | <5.8 | OECD 305C- Bioaccum degree fish |
| Acetone | 67-64-1 | Experimental BCF - Other | | Bioaccumulati on factor | 0.65 | Other methods |
| Butane | 106-97-8 | Experimental Bioconcentrati on | | Log Kow | 2.88 | Other methods |
| Zinc oxide | 1314-13-2 | Experimental BCF - Other | 56 days | Bioaccumulati on factor | <217 | OECD 305E - Bioaccumulation flow- through fish test |
| Solvent naphtha (petroleum), light aromatic | 64742-95-6 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Xylene | 1330-20-7 | Laboratory BCF - Rainbow Tr | 56 days | Bioaccumulati on factor | 14 | Other methods |

12.4. Mobility in soil

Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

| Ingredient | CAS Nbr | PBT/vPvB status |
|------------|-----------|--------------------------|
| Zinc | 7440-66-6 | Meets REACH PBT criteria |

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

Incinerate in a permitted waste incineration facility. 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)

08 01 11* Waste paint and varnish 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

DE-9999-5337-0

ADR/RID: UN1950, AEROSOLS, LIMITED QUANTITY, 2.1, (E), ADR Classification Code: 5F. IMDG-CODE: UN1950, AEROSOLS, (ZINC), 2.1, LIMITED QUANTITY, Marine Pollutant, (ZINC), EMS: FD,SU. ICAO/IATA: UN1950, AEROSOLS, FLAMMABLE, 2.1.

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-Butanone oxime | 96-29-7 | Care. 2 | Regulation (EC) No. |
| | | | 1272/2008, Table 3.1 |
| 2-Butanone oxime | 96-29-7 | Carc.Cat.3 | Regulation (EC) No. |
| | | | 1272/2008, Table 3.2 |
| Xylene | 1330-20-7 | Gr. 3: Not classifiable | International Agency |
| 2 | | | for Research on Cancer |

Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

15.2. Chemical Safety Assessment

Not applicable

SECTION 16: Other information

List of relevant H statements

| EUH066 | Repeated exposure may cause skin dryness or cracking. |
|--------|---|
| H220 | Extremely flammable gas. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H280 | Contains gas under pressure; may explode if heated. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

List of relevant R-phrases

| R10 | Flammable. |
|--------|--|
| R11 | Highly flammable. |
| R12 | Extremely flammable. |
| R15 | Contact with water liberates highly flammable gases. |
| R17 | Spontaneously flammable in air. |
| R20 | Harmful by inhalation. |
| R21 | Harmful in contact with skin. |
| R36 | Irritating to eyes. |
| R38 | Irritating to skin. |
| R40 | Limited evidence of a carcinogenic effect. |
| R41 | Risk of serious damage to eyes. |
| R43 | May cause sensitisation by skin contact. |
| R50/53 | Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. |
| R52/53 | Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment. |
| R65 | Harmful: May cause lung damage if swallowed. |
| R66 | Repeated exposure may cause skin dryness or cracking. |
| R67 | Vapours may cause drowsiness and dizziness. |

Revision information:

Revision Changes:

Section 8: Respiratory protection - recommended respirators was modified.

Section 15: Carcinogenicity information was modified.

Section 16: List of relevant R phrase information was modified.

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

Section 2: Indication of danger information was modified.

Section 13: EU waste code (product as sold) information was modified.

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

Copyright was modified.

Aspiration Hazard Table was modified.

Section 11: Acute Toxicity table was modified.

Carcinogenicity Table was modified.

Serious Eye Damage/Irritation Table was modified.

Germ Cell Mutagenicity Table was modified.

Skin Sensitisation Table was modified.

Respiratory Sensitisation Table was modified.

Reproductive Toxicity Table was modified.

Skin Corrosion/Irritation Table was modified.

Target Organs - Repeated Table was modified.

Target Organs - Single Table was modified.

Section 5: Fire - Extinguishing media information was modified.

Section 6: Accidental release clean-up information was modified.

Section 7: Conditions safe storage was modified.

Section 13: Standard Phrase Category Waste GHS was modified.

Section 8: Respiratory protection - recommended respirators guide was added.

Section 12: Component ecotoxicity information was added.

Section 12: Persistence and Degradability information was added.

Section 13: EU waste code (product container after use) heading was added.

Section 13: EU waste code (product container after use) information was added.

Section 12:Bioccumulative potential information was added.

Section 12: Component Ecotoxicity table Material column header was added.

Section 12: Component Ecotoxicity table CAS No column header was added.

Section 12: Component Ecotoxicity table Organism column header was added.

Section 12: Component Ecotoxicity table Type column header was added.

Section 12: Component Ecotoxicity table Exposure column header was added.

Section 12: Component Ecotoxicity table End point column header was added.

Section 12: Component Ecotoxicity table Result column header was added.

Section 12: Persistence and degradability table Material column header was added. Section 12: Persistence and degradability table CAS No column header was added. Section 12: Persistence and degradability table Test Type column header was added. Section 12: Persistence and degradability table Duration column header was added. Section 12: Persistence and degradability table Test Result column header was added. Section 12: Persistence and degradability table Protocol column header was added. Section 12:Bioccumulative potential table Material column header was added. Section 12:Bioccumulative potential table CAS No column header was added. Section 12:Bioccumulative potential table CAS No column header was added. Section 12:Bioccumulative potential table Test Result column header was added. Section 12:Bioccumulative potential table Protocol column header was added. Section 12:Bioccumulative potential table Test Type column header was added. Section 12: PBT/vPvB table CAS No. column heading was added. Section 12: PBT/vPvB table CAS No. column heading was added. Section 12: PBT/vPvB table PBT/vPvB Status column heading was added. Section 12: PBT/vPvB table row was added. Section 12: Persistence and degradability table Study Type column header was added. Section 12:Bioccumulative potential table Test Type column header was added. Label: Graphic Text was added. Label: Graphic Text was added. Section 9: Odour Threshold was added. Section 9: Solubility (non-water) was added. Section 09: Decomposition Temperature was added. Section 11: Single exposure may cause: heading was added. Section 11: Prolonged or repeated exposure may cause: heading was added. Section 11: Single exposure may cause standard phrases was added. Section 11: Prolonged or repeated exposure may cause standard phrases was added. Section 2: R phrase reference was added. Label: Graphic was added. Label: Graphic was added. Label: Graphic Text was added. Section 9: Flammability (solid, gas) information was added. Section 2: Symbol was deleted. Section 2: Symbols heading was deleted. Prints No Data if Component ecotoxicity information is not present was deleted. Prints No Data if Persistence and Degradability information is not present was deleted. Prints No Data if Bioccumulative potential information is not present was deleted. Section 11: Health Effects - Other information was deleted. Section 12: No PBT/vPvB information available warning was deleted.

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

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