

Security data sheet



Product: DP8425NS

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: KLEBSTOFF

Article group: 2-K KLEBSTOFF

Download: 04.05.2024

SCOTCH-WELD DP8425NS GRÜN

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Safety Data Sheet

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| | | | |
|---------------------------------------|-------------------|-------------------------|------------|
| Document group: | 33-7190-3 | Version number: | 3.00 |
| Revision date: | 23/10/2019 | Supersedes date: | 31/05/2019 |
| Transportation version number: | 2.00 (02/09/2019) | | |

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

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

3M(TM) Scotch-Weld(TM) Acrylic Adhesive DP8425NS Green

Product Identification Numbers

62-2862-1445-7 62-2862-3630-2

7100078165 7100078166

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

Identified uses

Structural adhesive.

1.3. Details of the supplier of the safety data sheet

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.
Telephone: +44 (0)1344 858 000
E Mail: tox.uk@mmm.com
Website: www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet for each of these components is included. Please do not separate the component Safety Data Sheets from this cover page. The document numbers of the MSDSs for components of this product are:

33-7188-7, 33-7187-9

TRANSPORTATION INFORMATION

62-2862-1445-7, 62-2862-3630-2

ADR/RID: UN1133, ADHESIVES, LIMITED QUANTITY, 3., II, (E), ADR Classification Code: F1.

IMDG-CODE: UN1133, ADHESIVES, 3., II, IMDG-Code segregation code: NONE, LIMITED QUANTITY, EMS: FE,SD.

ICAO/IATA: UN1133, ADHESIVES, 3., II .

KIT LABEL

2.1. Classification of the substance or mixture CLP REGULATION (EC) No 1272/2008

CLASSIFICATION:

Flammable Liquid, Category 2 - Flam. Liq. 2; H225
Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
Skin Sensitization, Category 1 - Skin Sens. 1; H317
Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H335
Hazardous to the Aquatic Environment (Chronic), Category 2 - Aquatic Chronic 2; H411

For full text of H phrases, see Section 16.

2.2. Label elements CLP REGULATION (EC) No 1272/2008

SIGNAL WORD
DANGER.

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

Pictograms



Contains:
Tert-butyl 3,5,5-trimethylperoxyhexanoate; Methyl methacrylate; 2-hydroxyethyl methacrylate

HAZARD STATEMENTS:

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |
| H411 | Toxic to aquatic life with long lasting effects. |

PRECAUTIONARY STATEMENTS

Prevention:

| | |
|-------|--|
| P210A | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P261A | Avoid breathing vapours. |
| P280E | Wear protective gloves. |

Response:

| | |
|--------------------|--|
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
|--------------------|--|

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Disposal:

P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

<=125 ml Hazard statements

H317 May cause an allergic skin reaction.

<=125 ml Precautionary statements

Prevention:

P280E Wear protective gloves.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Refer to Safety Data Sheet for component % unknown values (www.3M.com/msds).

Notes on labelling

Nota L applied to CAS 64742-55-8

Revision information:

Label: CLP Classification information was modified.

Label: CLP Environmental Hazard Statements information was modified.



Safety Data Sheet

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Document group: 33-7187-9
Revision date: 16/07/2021

Version number: 4.01
Supersedes date: 23/10/2019

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(TM) Scotch-Weld(TM) Acrylic Adhesive DP8425NS Green and Acrylic Adhesive 8425NS Green, Part B

Product Identification Numbers

62-2862-9530-8

7100084535

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

Identified uses

Adhesive

1.3. Details of the supplier of the safety data sheet

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.
Telephone: +44 (0)1344 858 000
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

CLP REGULATION (EC) No 1272/2008

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

CLASSIFICATION:

Flammable Liquid, Category 2 - Flam. Liq. 2; H225
 Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
 Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
 Skin Sensitization, Category 1 - Skin Sens. 1; H317
 Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H335

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) |

Pictograms



Ingredients:

| Ingredient | CAS Nbr | EC No. | % by Wt |
|-----------------------------|----------|-----------|----------|
| methyl methacrylate | 80-62-6 | 201-297-1 | 40 - 65 |
| 2-hydroxyethyl methacrylate | 868-77-9 | 212-782-2 | 0.1 - 10 |

HAZARD STATEMENTS:

| | |
|------|--------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |

PRECAUTIONARY STATEMENTS

Prevention:

| | |
|-------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P280E | Wear protective gloves. |

For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

<=125 ml Hazard statements

| | |
|------|--------------------------------------|
| H317 | May cause an allergic skin reaction. |
|------|--------------------------------------|

<=125 ml Precautionary statements

Prevention:

| | |
|-------|-------------------------|
| P280E | Wear protective gloves. |
|-------|-------------------------|

Contains 7% of components with unknown hazards to the aquatic environment.

Notes on labelling

Nota L applied to CAS 64742-55-8

2.3. Other hazards

None known.

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] |
|--|--|----------|---|
| methyl methacrylate | (CAS-No.) 80-62-6 (EC-No.) 201-297-1 | 40 - 65 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Nota D |
| Acrylonitrile - butadiene polymer | (CAS-No.) 9003-18-3 | 1 - 25 | Substance not classified as hazardous |
| Fillers (NJTS Reg. No. 04499600-6923) | Trade Secret | 5 - 25 | Substance with a national occupational exposure limit |
| 2-hydroxyethyl methacrylate | (CAS-No.) 868-77-9 (EC-No.) 212-782-2 | 0.1 - 10 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Nota D |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | (CAS-No.) 41637-38-1 | 0.1 - 10 | Substance not classified as hazardous |
| CALCIUM STEARATE | (CAS-No.) 1592-23-0 (EC-No.) 216-472-8 | 0.1 - 5 | Substance not classified as hazardous |
| Distillates (petroleum), hydrotreated light paraffinic | (CAS-No.) 64742-55-8 (EC-No.) 265-158-7 | < 5 | Nota L Asp. Tox. 1, H304 |
| Phosphate Esters of PPG Methacrylate | (CAS-No.) 95175-93-2 | < 3 | Skin Irrit. 2, H315 Eye Dam. 1, H318 |
| naphthenic acids, copper salts | (CAS-No.) 1338-02-9 (EC-No.) 215-657-0 | < 0.2 | Flam. Liq. 3, H226 Acute Tox. 4, H302 Aquatic Acute 1, H400,M=10 Aquatic Chronic 1, H410,M=1 |

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. If you feel unwell, get medical attention.

Skin contact

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

Eye contact

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products**Substance**

Carbon monoxide
Carbon dioxide.
Hydrogen Chloride
Oxides of nitrogen.

Condition

During combustion.
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. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust 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. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapour accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidising agents. Store away from amines.

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 |
|--|---------|--------|---|---------------------|
| methyl methacrylate | 80-62-6 | UK HSC | TWA:208 mg/m ³ (50 ppm);STEL:416 mg/m ³ (100 ppm) | |
| Fillers (NJTS Reg. No. 04499600- Trade Secret 6923) | | UK HSC | TWA (as respirable dust): 2 mg/m ³ | |
| UK HSC : UK Health and Safety Commission 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 UK HSC

8.2. Exposure controls

8.2.1. Engineering controls

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

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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

Applicable Norms/Standards

Use eye protection conforming to EN 166

Skin/hand protection

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

| Material | Thickness (mm) | Breakthrough Time |
|------------------|-------------------|-------------------|
| Polymer laminate | No data available | No data available |
| Butyl rubber. | 0.5 | =>8 hours |

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

Applicable Norms/Standards

Use gloves tested to EN 374

Respiratory protection

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

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

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: filter types A & P

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-------------------------|--------------|
| Physical state | Liquid. |
| Specific Physical Form: | Paste |
| Colour | White |
| Odor | Methacrylate |

| | |
|---|---|
| Odour threshold | <i>No data available.</i> |
| Melting point/freezing point | <i>Not applicable.</i> |
| Boiling point/boiling range | $\geq 37.8\text{ }^{\circ}\text{C}$ |
| Flammability (solid, gas) | Not applicable. |
| Flammable Limits(LEL) | <i>No data available.</i> |
| Flammable Limits(UEL) | <i>No data available.</i> |
| Flash point | $\geq 10\text{ }^{\circ}\text{C}$ [Test Method: Closed Cup] |
| Autoignition temperature | <i>No data available.</i> |
| Decomposition temperature | <i>No data available.</i> |
| pH | <i>substance/mixture is non-soluble (in water)</i> |
| Kinematic Viscosity | 73,913.0434782609 mm ² /sec |
| Water solubility | Nil |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Vapour pressure | <i>No data available.</i> |
| Density | 1.15 g/ml |
| Relative density | 1.15 [Ref Std: WATER=1] |
| Relative Vapor Density | <i>No data available.</i> |

9.2. Other information

9.2.2 Other safety characteristics

| | |
|--------------------------------------|---------------------------|
| EU Volatile Organic Compounds | <i>No data available.</i> |
| Evaporation rate | <i>No data available.</i> |

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

Amines.
Strong acids.
Strong bases.
Strong oxidising agents.

10.6 Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| 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

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

Skin contact

Mild Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

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.

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:

Olfactory effects: Signs/symptoms may include decreased ability to detect odours and complete loss of smell.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

| Name | Route | Species | Value |
|--|-----------------------------|---------|--|
| Overall product | Inhalation-Vapour(4 hr) | | No data available; calculated ATE >50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| methyl methacrylate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| methyl methacrylate | Inhalation-Vapour (4 hours) | Rat | LC50 29 mg/l |
| methyl methacrylate | Ingestion | Rat | LD50 7,900 mg/kg |
| Acrylonitrile - butadiene polymer | Dermal | Rabbit | LD50 > 15,000 mg/kg |
| Acrylonitrile - butadiene polymer | Ingestion | Rat | LD50 > 30,000 mg/kg |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | Dermal | Rat | LD50 > 2,000 mg/kg |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | Ingestion | Rat | LD50 > 35,000 mg/kg |
| Fillers (NJTS Reg. No. 04499600-6923) | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Fillers (NJTS Reg. No. 04499600-6923) | Ingestion | Human | LD50 > 15,000 mg/kg |
| 2-hydroxyethyl methacrylate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| 2-hydroxyethyl methacrylate | Ingestion | Rat | LD50 5,564 mg/kg |
| Phosphate Esters of PPG Methacrylate | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Phosphate Esters of PPG Methacrylate | Dermal | similar | LD50 estimated to be > 5,000 mg/kg |

| | | | |
|--------------------------------|-----------|-------------------|--------------------------|
| | | health hazards | |
| naphthenic acids, copper salts | Dermal | similar compounds | LD50 > 2,000 mg/kg |
| naphthenic acids, copper salts | Ingestion | similar compounds | LD50 >300, < 2,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|------------------------|---------------------------|
| methyl methacrylate | Human and animal | Mild irritant |
| Acrylonitrile - butadiene polymer | Professional judgement | No significant irritation |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | Rabbit | Minimal irritation |
| Fillers (NJTS Reg. No. 04499600-6923) | Professional judgement | No significant irritation |
| 2-hydroxyethyl methacrylate | Rabbit | Minimal irritation |
| Phosphate Esters of PPG Methacrylate | Not available | Irritant |
| naphthenic acids, copper salts | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|------------------------|---------------------------|
| methyl methacrylate | Rabbit | Moderate irritant |
| Acrylonitrile - butadiene polymer | Professional judgement | No significant irritation |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | Rabbit | No significant irritation |
| Fillers (NJTS Reg. No. 04499600-6923) | Professional judgement | No significant irritation |
| 2-hydroxyethyl methacrylate | Rabbit | Moderate irritant |
| Phosphate Esters of PPG Methacrylate | Not available | Corrosive |
| naphthenic acids, copper salts | In vitro data | No significant irritation |

Skin Sensitisation

| Name | Species | Value |
|--|------------------|----------------|
| methyl methacrylate | Human and animal | Sensitising |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | Guinea pig | Not classified |
| 2-hydroxyethyl methacrylate | Human and animal | Sensitising |
| naphthenic acids, copper salts | Guinea pig | Not classified |

Respiratory Sensitisation

| Name | Species | Value |
|---------------------|---------|----------------|
| methyl methacrylate | Human | Not classified |

Germ Cell Mutagenicity

| Name | Route | Value |
|--|----------|--|
| methyl methacrylate | In vivo | Not mutagenic |
| methyl methacrylate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | In Vitro | Not mutagenic |
| 2-hydroxyethyl methacrylate | In vivo | Not mutagenic |
| 2-hydroxyethyl methacrylate | In Vitro | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|---------------------------------------|------------|-------------------------|------------------|
| methyl methacrylate | Ingestion | Rat | Not carcinogenic |
| methyl methacrylate | Inhalation | Human and animal | Not carcinogenic |
| Fillers (NJTS Reg. No. 04499600-6923) | Inhalation | Multiple animal species | Not carcinogenic |

Reproductive Toxicity**Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test result | Exposure Duration |
|-----------------------------|------------|--|---------|-----------------------|------------------------------|
| methyl methacrylate | Inhalation | Not classified for male reproduction | Mouse | NOAEL 36.9 mg/l | |
| methyl methacrylate | Inhalation | Not classified for development | Rat | NOAEL 8.3 mg/l | during organogenesis |
| 2-hydroxyethyl methacrylate | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | premating & during gestation |
| 2-hydroxyethyl methacrylate | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 49 days |
| 2-hydroxyethyl methacrylate | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | premating & during gestation |

Target Organ(s)**Specific Target Organ Toxicity - single exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--------------------------------------|------------|------------------------|--|------------------------|---------------------|-----------------------|
| methyl methacrylate | Inhalation | respiratory irritation | May cause respiratory irritation | Human | NOAEL Not available | occupational exposure |
| Phosphate Esters of PPG Methacrylate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---------------------|------------|---------------------------|--|----------|---------------------|-----------------------|
| methyl methacrylate | Dermal | peripheral nervous system | Not classified | Human | NOAEL Not available | occupational exposure |
| methyl methacrylate | Inhalation | olfactory system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| methyl methacrylate | Inhalation | kidney and/or | Not classified | Multiple | NOAEL Not | 14 weeks |

| | | | | | | |
|---------------------------------------|------------|--------------------|--|----------------|---------------------|-----------------------|
| | | bladder | | animal species | available | |
| methyl methacrylate | Inhalation | liver | Not classified | Mouse | NOAEL 12.3 mg/l | 14 weeks |
| methyl methacrylate | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| Fillers (NJTS Reg. No. 04499600-6923) | Inhalation | pneumoconiosis | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL NA | occupational exposure |
| Fillers (NJTS Reg. No. 04499600-6923) | Inhalation | pulmonary fibrosis | Not classified | Rat | NOAEL Not available | |

Aspiration Hazard

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

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 |
|---------------------------------------|--------------|------------------|---|------------|---------------|---------------------------|
| methyl methacrylate | 80-62-6 | Green Algae | Experimental | 72 hours | EC50 | >110 mg/l |
| methyl methacrylate | 80-62-6 | Rainbow trout | Experimental | 96 hours | LC50 | >79 mg/l |
| methyl methacrylate | 80-62-6 | Water flea | Experimental | 48 hours | EC50 | 69 mg/l |
| methyl methacrylate | 80-62-6 | Green algae | Experimental | 72 hours | NOEC | 110 mg/l |
| methyl methacrylate | 80-62-6 | Water flea | Experimental | 21 days | NOEC | 37 mg/l |
| methyl methacrylate | 80-62-6 | Activated sludge | Experimental | 30 minutes | EC20 | 150 mg/l |
| methyl methacrylate | 80-62-6 | Soil microbes | Experimental | 28 days | NOEC | >1,000 mg/kg (Dry Weight) |
| Acrylonitrile - butadiene polymer | 9003-18-3 | | Data not available or insufficient for classification | | | N/A |
| Fillers (NJTS Reg. No. 04499600-6923) | Trade Secret | Water flea | Experimental | 48 hours | LC50 | >1,100 mg/l |
| 2-hydroxyethyl methacrylate | 868-77-9 | Turbot | Analogous Compound | 96 hours | LC50 | 833 mg/l |
| 2-hydroxyethyl methacrylate | 868-77-9 | Fathead minnow | Experimental | 96 hours | LC50 | 227 mg/l |
| 2-hydroxyethyl methacrylate | 868-77-9 | Green algae | Experimental | 72 hours | EC50 | 710 mg/l |
| 2-hydroxyethyl methacrylate | 868-77-9 | Water flea | Experimental | 48 hours | EC50 | 380 mg/l |
| 2-hydroxyethyl methacrylate | 868-77-9 | Green Algae | Experimental | 72 hours | NOEC | 160 mg/l |

3M(TM) Scotch-Weld(TM) Acrylic Adhesive DP8425NS Green and Acrylic Adhesive 8425NS Green, Part B

| | | | | | | |
|--|------------|-------------------------------|---|----------|------|-----------------------------|
| 2-hydroxyethyl methacrylate | 868-77-9 | Water flea | Experimental | 21 days | NOEC | 24.1 mg/l |
| 2-hydroxyethyl methacrylate | 868-77-9 | | Experimental | 16 hours | EC0 | >3,000 mg/l |
| 2-hydroxyethyl methacrylate | 868-77-9 | | Experimental | 18 hours | LD50 | <98 mg per kg of bodyweight |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | 41637-38-1 | Activated sludge | Estimated | 3 hours | EC50 | >1,000 mg/l |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | 41637-38-1 | Green Algae | Estimated | 72 hours | EL50 | >100 mg/l |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | 41637-38-1 | Water flea | Estimated | 48 hours | EL50 | >100 mg/l |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | 41637-38-1 | Zebra Fish | Estimated | 96 hours | LL50 | >100 mg/l |
| CALCIUM STEARATE | 1592-23-0 | Green algae | Experimental | 72 hours | EC50 | >100 mg/l |
| CALCIUM STEARATE | 1592-23-0 | Medaka | Experimental | 96 hours | LC50 | >100 mg/l |
| CALCIUM STEARATE | 1592-23-0 | Green algae | Experimental | 72 hours | NOEC | 100 mg/l |
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8 | Fathead minnow | Estimated | 96 hours | LL50 | >100 mg/l |
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8 | Water flea | Estimated | 48 hours | EL50 | >100 mg/l |
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8 | Green Algae | Estimated | 72 hours | NOEL | 100 mg/l |
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8 | Water flea | Estimated | 21 days | NOEC | 10 mg/l |
| Phosphate Esters of PPG Methacrylate | 95175-93-2 | | Data not available or insufficient for classification | | | N/A |
| naphthenic acids, copper salts | 1338-02-9 | Green Algae | Estimated | 72 hours | EC50 | 0.629 mg/l |
| naphthenic acids, copper salts | 1338-02-9 | Water flea | Estimated | 48 hours | EC50 | 0.0756 mg/l |
| naphthenic acids, copper salts | 1338-02-9 | Zebra Fish | Estimated | 96 hours | LC50 | 0.0702 mg/l |
| naphthenic acids, copper salts | 1338-02-9 | Algae or other aquatic plants | Estimated | hours | NOEC | 0.132 mg/l |
| naphthenic acids, copper salts | 1338-02-9 | Fathead minnow | Estimated | 32 days | EC10 | 0.0354 mg/l |
| naphthenic acids, copper salts | 1338-02-9 | Water flea | Estimated | 21 days | NOEC | 0.0756 mg/l |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|---------------------------------------|--------------|-------------------------------|----------|------------------------------|-------------------|--------------------------------|
| methyl methacrylate | 80-62-6 | Experimental Biodegradation | 14 days | BOD | 94 % BOD/ThBOD | OECD 301C - MITI test (I) |
| Acrylonitrile - butadiene polymer | 9003-18-3 | Data not availbl-insufficient | | | N/A | |
| Fillers (NJTS Reg. No. 04499600-6923) | Trade Secret | Data not availbl-insufficient | | | N/A | |
| 2-hydroxyethyl methacrylate | 868-77-9 | Experimental Hydrolysis | | Hydrolytic half-life (pH 10) | 10.9 days (t 1/2) | OECD 111 Hydrolysis func of pH |

| | | | | | | |
|--|------------|-------------------------------|---------|------------------|------------------------------------|-----------------------------------|
| 2-hydroxyethyl methacrylate | 868-77-9 | Experimental Biodegradation | 28 days | BOD | 84 %BOD/CO D | OECD 301D - Closed bottle test |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | 41637-38-1 | Experimental Biodegradation | 28 days | Percent degraded | 24 %degraded | Non-standard method |
| CALCIUM STEARATE | 1592-23-0 | Experimental Biodegradation | 24 days | CO2 evolution | 91 % weight | OECD 301B - Modified sturm or CO2 |
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8 | Estimated Biodegradation | 28 days | CO2 evolution | 22 %CO2 evolution/THC O2 evolution | OECD 301B - Modified sturm or CO2 |
| Phosphate Esters of PPG Methacrylate | 95175-93-2 | Data not availbl-insufficient | | | N/A | |
| naphthenic acids, copper salts | 1338-02-9 | Data not availbl-insufficient | | | N/A | |

12.3 : Bioaccumulative potential

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|--|--------------|---|----------|------------------------|-------------|--|
| methyl methacrylate | 80-62-6 | Experimental Bioconcentration | | Log Kow | 1.38 | OECD 107 log Kow shke flask mtd |
| Acrylonitrile - butadiene polymer | 9003-18-3 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Fillers (NJTS Reg. No. 04499600-6923) | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 2-hydroxyethyl methacrylate | 868-77-9 | Experimental Bioconcentration | | Log Kow | 0.42 | OECD 107 log Kow shke flask mtd |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | 41637-38-1 | Estimated Bioconcentration | | Bioaccumulation factor | 6.6 | Non-standard method |
| CALCIUM STEARATE | 1592-23-0 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Phosphate Esters of PPG Methacrylate | 95175-93-2 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| naphthenic acids, copper salts | 1338-02-9 | Estimated BCF-Carp | 42 days | Bioaccumulation factor | ≤27 | OECD 305E - Bioaccumulation flow-through fish test |

12.4. Mobility in soil

| Material | Cas No. | Test type | Study Type | Test result | Protocol |
|-----------------------------|----------|-------------------------------|------------|-------------|----------|
| methyl methacrylate | 80-62-6 | Experimental Mobility in Soil | Koc | 8 l/kg | |
| 2-hydroxyethyl methacrylate | 868-77-9 | Experimental Mobility in Soil | Koc | 42.7 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.

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

EU waste code (product as sold)

08 04 09* Waste adhesives and sealants containing organic solvents or other dangerous substances
20 01 27* Paint, inks, adhesives and resins containing dangerous substances

SECTION 14: Transportation information

| | Ground Transport (ADR) | Air Transport (IATA) | Marine Transport (IMDG) |
|--|--|--|--|
| 14.1 UN number | UN1133 | UN1133 | UN1133 |
| 14.2 UN proper shipping name | ADHESIVES | ADHESIVES | ADHESIVES |
| 14.3 Transport hazard class(es) | 3 | 3 | 3 |
| 14.4 Packing group | II | II | II |
| 14.5 Environmental hazards | Environmentally Hazardous | Not applicable | Not a Marine Pollutant |
| 14.6 Special precautions for user | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. |
| 14.7 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code | 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 Tunnel Code | (D/E) | Not applicable. | Not applicable. |
| ADR Classification Code | F1 | Not applicable. | Not applicable. |
| ADR Transport Category | 2 | Not applicable. | Not applicable. |
| ADR Multiplier | 3 | 0 | 0 |
| 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

methyl methacrylate

CAS Nbr

80-62-6

Classification

Gr. 3: Not classifiable

Regulation

International Agency
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. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

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

| | |
|------|---|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |

| | |
|------|---|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Revision information:

EU Section 09: pH information information was added.
 Section 2: <125ml Precautionary - Response information was deleted.
 CLP: Ingredient table information was modified.
 Label: CLP Classification information was modified.
 Label: CLP Precautionary - Prevention information was modified.
 Label: CLP Precautionary - Response information was deleted.
 Section 03: Composition table % Column heading information was added.
 Section 3: Composition/ Information of ingredients table information was modified.
 Section 03: Substance not applicable information was added.
 Section 04: Information on toxicological effects information was modified.
 Section 5: Hazardous combustion products table information was modified.
 Section 6: Accidental release clean-up information information was modified.
 Section 8: glove data value information was modified.
 Section 8: Occupational exposure limit table information was modified.
 Section 9: Evaporation Rate information information was deleted.
 Section 9: Explosive properties information information was deleted.
 Section 09: Kinematic Viscosity information information was added.
 Section 9: Melting point information information was modified.
 Section 9: Oxidising properties information information was deleted.
 Section 9: pH information information was deleted.
 Section 9: Property description for optional properties information was modified.
 Section 9: Vapour density value information was added.
 Section 9: Vapour density value information was deleted.
 Section 9: Viscosity information information was deleted.
 Section 11: Acute Toxicity table information was modified.
 Section 11: Carcinogenicity Table information was modified.
 Section 11: Classification disclaimer information was modified.
 Section 11: Germ Cell Mutagenicity Table information was modified.
 Section 11: No endocrine disruptor information available warning information was added.
 Section 11: Reproductive Toxicity Table information was modified.
 Section 11: Respiratory Sensitization Table information was modified.
 Section 11: Serious Eye Damage/Irritation Table information was modified.
 Section 11: Skin Corrosion/Irritation Table information was modified.
 Section 11: Skin Sensitization Table information was modified.
 Section 11: Target Organs - Repeated Table information was modified.
 Section 11: Target Organs - Single Table information was modified.
 Section 12: 12.6. Endocrine Disrupting Properties information was added.
 Section 12: 12.7. Other adverse effects information was modified.
 Section 12: Component ecotoxicity information information was modified.
 Section 12: Contact manufacturer for more detail. information was deleted.
 Section 12: Mobility in soil information information was added.
 Section 12: No endocrine disruptor information available warning information was added.
 Section 12: Persistence and Degradability information information was modified.
 Section 12: Bioaccumulative potential information information was modified.
 Section 14 Classification Code – Main Heading information was added.
 Section 14 Classification Code – Regulation Data information was added.
 Section 14 Control Temperature – Main Heading information was added.

Section 14 Control Temperature – Regulation Data information was added.
Section 14 Disclaimer Information information was added.
Section 14 Emergency Temperature – Main Heading information was added.
Section 14 Emergency Temperature – Regulation Data information was added.
Section 14 Hazard Class + Sub Risk – Main Heading information was added.
Section 14 Hazard Class + Sub Risk – Regulation Data information was added.
Section 14 Hazardous/Not Hazardous for Transportation information was added.
Section 14 Multiplier – Main Heading information was added.
Section 14 Multiplier – Regulation Data information was added.
Section 14 Other Dangerous Goods – Main Heading information was added.
Section 14 Other Dangerous Goods – Regulation Data information was added.
Section 14 Packing Group – Main Heading information was added.
Section 14 Packing Group – Regulation Data information was added.
Section 14 Proper Shipping Name information was added.
Section 14 Regulations – Main Headings information was added.
Section 14 Segregation – Regulation Data information was added.
Section 14 Segregation Code – Main Heading information was added.
Section 14 Special Precautions – Main Heading information was added.
Section 14 Special Precautions – Regulation Data information was added.
Section 14 Transport Category – Main Heading information was added.
Section 14 Transport Category – Regulation Data information was added.
Section 14 Transport in bulk – Regulation Data information was added.
Section 14 Transport in bulk according to Annex II of Marpol and the IBC Code – Main Heading information was added.
Section 14 Tunnel Code – Main Heading information was added.
Section 14 Tunnel Code – Regulation Data information was added.
Section 14 UN Number Column data information was added.
Section 14 UN Number information was added.
Section 15: Carcinogenicity information information was modified.
Section 15: Regulations - Inventories information was added.
Section 16: UK disclaimer information 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. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

3M United Kingdom MSDSs are available at www.3M.com/uk



Safety Data Sheet

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| | | | |
|------------------------|------------|-------------------------|------------|
| Document group: | 33-7188-7 | Version number: | 2.02 |
| Revision date: | 07/04/2021 | Supersedes date: | 30/10/2017 |

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(TM) Scotch-Weld(TM) Acrylic Adhesive DP8425NS, Green, Part A

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

Identified uses

Structural adhesive.

1.3. Details of the supplier of the safety data sheet

| | |
|-------------------|--|
| Address: | 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT. |
| Telephone: | +44 (0)1344 858 000 |
| 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

CLP REGULATION (EC) No 1272/2008

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

CLASSIFICATION:

Skin Sensitization, Category 1B - Skin Sens. 1B; H317

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**

WARNING.

Symbols

GHS07 (Exclamation mark) | GHS09 (Environment) |

Pictograms**Ingredients:**

| Ingredient | CAS Nbr | EC No. | % by Wt |
|---|------------|-----------|----------|
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | 13122-18-4 | 236-050-7 | 0.1 - 10 |

HAZARD STATEMENTS:

| | |
|------|--|
| H317 | May cause an allergic skin reaction. |
| H411 | Toxic to aquatic life with long lasting effects. |

PRECAUTIONARY STATEMENTS**Prevention:**

| | |
|-------|-----------------------------------|
| P273 | Avoid release to the environment. |
| P280E | Wear protective gloves. |

Response:

| | |
|-------------|--|
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
|-------------|--|

For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:**<=125 ml Hazard statements**

| | |
|------|--------------------------------------|
| H317 | May cause an allergic skin reaction. |
|------|--------------------------------------|

<=125 ml Precautionary statements**Prevention:**

| | |
|-------|-------------------------|
| P280E | Wear protective gloves. |
|-------|-------------------------|

Response:

| | |
|-------------|--|
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
|-------------|--|

Contains 39% of components with unknown hazards to the aquatic environment.

Notes on labelling

The organic peroxide classification from CAS# 13122-18-4 does not apply to the material. The calculated available oxygen content is less than 1%.

2.3. Other hazards

None known.

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] |
|--|--|----------|---|
| Oxydipropyl dibenzoate | (CAS-No.) 27138-31-4 (EC-No.) 248-258-5 (REACH-No.) 01-2119529241-49 | 45 - 65 | Aquatic Chronic 3, H412 |
| Styrene, polymer with 1,3-Butadiene, butylacrylate and methyl methacrylate | (CAS-No.) 25101-28-4 | 10 - 30 | Substance not classified as hazardous |
| Catalyst. | Trade Secret | 1 - 15 | Substance not classified as hazardous |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | (CAS-No.) 13122-18-4 (EC-No.) 236-050-7 | 0.1 - 10 | Org. Perox. CD, H242 Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1 Skin Sens. 1B, H317 |

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. If you feel unwell, get medical attention.

Skin contact

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

Eye contact

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:
Allergic skin reaction (redness, swelling, blistering, and itching).

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

Part of the oxygen for combustion is supplied by the peroxide itself.

Hazardous Decomposition or By-Products**Substance**

Carbon monoxide

Carbon dioxide.

Condition

During combustion.

During combustion.

5.3. Advice for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Contain spill. 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. Place in a closed 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**

Avoid breathing 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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Keep cool. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidising agents. Store away from amines.

7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

Biological limit values

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

8.2. Exposure controls

8.2.1. Engineering controls

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

None required.

Skin/hand protection

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

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

| Material | Thickness (mm) | Breakthrough Time |
|------------------|-------------------|-------------------|
| Polymer laminate | No data available | No data available |

Applicable Norms/Standards

Use gloves tested to EN 374

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection

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

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

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: filter types A & P

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-------------------------|---------|
| Physical state | Liquid. |
| Specific Physical Form: | Paste |
| Colour | Blue |
| Odor | Ester |

| | |
|---|--|
| Odour threshold | <i>No data available.</i> |
| Melting point/freezing point | <i>Not applicable.</i> |
| Boiling point/boiling range | $\geq 65.6\text{ }^{\circ}\text{C}$ |
| Flammability (solid, gas) | Not applicable. |
| Flammable Limits(LEL) | <i>No data available.</i> |
| Flammable Limits(UEL) | <i>No data available.</i> |
| Flash point | $> 93.3\text{ }^{\circ}\text{C}$ [Test Method: Closed Cup] |
| Autoignition temperature | <i>No data available.</i> |
| Decomposition temperature | <i>No data available.</i> |
| pH | <i>substance/mixture is non-soluble (in water)</i> |
| Kinematic Viscosity | 18,518.5185185185 mm ² /sec |
| Water solubility | Nil |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Vapour pressure | <i>No data available.</i> |
| Density | 1.08 g/ml |
| Relative density | 1.08 [Ref Std: WATER=1] |
| Relative Vapor Density | <i>No data available.</i> |

9.2. Other information

9.2.2 Other safety characteristics

| | |
|--------------------------------------|---------------------------|
| EU Volatile Organic Compounds | <i>No data available.</i> |
| Evaporation rate | <i>No data available.</i> |
| Molecular weight | <i>No data available.</i> |

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

Amines.

Strong acids.

Strong bases.

Strong oxidising agents.

10.6 Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| 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

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

Skin contact

Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye contact

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

Ingestion

May be harmful if swallowed.

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 | Ingestion | | No data available; calculated ATE 2,000 - 5,000 mg/kg |
| Oxydipropyl dibenzoate | Dermal | Rat | LD50 > 2,000 mg/kg |
| Oxydipropyl dibenzoate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 200 mg/l |
| Oxydipropyl dibenzoate | Ingestion | Rat | LD50 3,295 mg/kg |
| Styrene, polymer with 1,3-Butadiene, butylacrylate and methyl methacrylate | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Styrene, polymer with 1,3-Butadiene, butylacrylate and methyl methacrylate | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Catalyst. | Dermal | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Catalyst. | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | Dermal | Rat | LD50 > 2,000 mg/kg |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.8 mg/l |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | Ingestion | Rat | LD50 12,905 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|------------------------|---------|---------------------------|
| Oxydipropyl dibenzoate | Rabbit | No significant irritation |

| | | |
|---|--------|---------------------------|
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | Rabbit | No significant irritation |
|---|--------|---------------------------|

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|---------|---------------------------|
| Oxydipropyl dibenzoate | Rabbit | No significant irritation |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | Rabbit | No significant irritation |

Skin Sensitisation

| Name | Species | Value |
|---|------------|----------------|
| Oxydipropyl dibenzoate | Guinea pig | Not classified |
| Catalyst. | Mouse | Not classified |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | Guinea pig | Sensitising |

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 |
|------------------------|----------|---------------|
| Oxydipropyl dibenzoate | In Vitro | Not mutagenic |
| Catalyst. | In Vitro | Not mutagenic |

Carcinogenicity

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

Reproductive Toxicity**Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test result | Exposure Duration |
|------------------------|-----------|--|---------|-----------------------|-------------------|
| Oxydipropyl dibenzoate | Ingestion | Not classified for female reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| Oxydipropyl dibenzoate | Ingestion | Not classified for male reproduction | Rat | NOAEL 400 mg/kg/day | 2 generation |
| Oxydipropyl dibenzoate | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during gestation |

Target Organ(s)**Specific Target Organ Toxicity - single exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|-----------|-----------|-----------------|----------------|---------|-------------------|-------------------|
| Catalyst. | Ingestion | nervous system | Not classified | Rat | NOAEL 2,000 mg/kg | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|------------------------|-----------|------------------------------|----------------|---------|-----------------------|-------------------|
| Oxydipropyl dibenzoate | Ingestion | hematopoietic system liver | Not classified | Rat | NOAEL 2,500 mg/kg/day | 90 days |

Aspiration Hazard

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

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 |
|--|--------------|------------------|---|----------|---------------|-------------|
| Oxydipropyl dibenzoate | 27138-31-4 | Fathead minnow | Experimental | 96 hours | LC50 | 3.7 mg/l |
| Oxydipropyl dibenzoate | 27138-31-4 | Green Algae | Experimental | 72 hours | EL50 | 4.9 mg/l |
| Oxydipropyl dibenzoate | 27138-31-4 | Water flea | Experimental | 48 hours | EL50 | 19.31 mg/l |
| Oxydipropyl dibenzoate | 27138-31-4 | Green Algae | Experimental | 72 hours | EC10 | 0.89 mg/l |
| Styrene, polymer with 1,3-Butadiene, butylacrylate and methyl methacrylate | 25101-28-4 | | Data not available or insufficient for classification | | | N/A |
| Catalyst. | Trade Secret | | Data not available or insufficient for classification | | | N/A |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | 13122-18-4 | Activated sludge | Experimental | 3 hours | NOEC | 26.3 mg/l |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | 13122-18-4 | Green Algae | Experimental | | EC50 | 0.51 mg/l |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | 13122-18-4 | Rainbow trout | Experimental | | LC50 | 7 mg/l |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | 13122-18-4 | Water flea | Experimental | | EC50 | >100 mg/l |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | 13122-18-4 | Green Algae | Experimental | | NOEC | 0.125 mg/l |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|--|--------------|-------------------------------|----------|-------------------------------|-------------------|-----------------------------------|
| Oxydipropyl dibenzoate | 27138-31-4 | Experimental Biodegradation | 28 days | CO2 evolution | 85 % weight | OECD 301B - Modified sturm or CO2 |
| Styrene, polymer with 1,3-Butadiene, butylacrylate and methyl methacrylate | 25101-28-4 | Data not availbl-insufficient | | | N/A | |
| Catalyst. | Trade Secret | Estimated Photolysis | | Photolytic half-life (in air) | 1.48 days (t 1/2) | Non-standard method |
| Catalyst. | Trade Secret | Experimental | 28 days | CO2 evolution | 29.1 %CO2 | OECD 301B - Modified |

3M(TM) Scotch-Weld(TM) Acrylic Adhesive DP8425NS, Green, Part A

| | | | | | | |
|---|------------|-----------------------------|----|-----|-------------------------------|---------------------------|
| | | Biodegradation | | | evolution/THC O2 evolution | sturm or CO2 |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | 13122-18-4 | Estimated Biodegradation | 28 | BOD | 14 % BOD/ThBOD | OECD 301C - MITI test (I) |

12.3 : Bioaccumulative potential

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|--|--------------|---|----------|---------------------------|-------------|---------------------------------------|
| Oxydipropyl dibenzoate | 27138-31-4 | Estimated Bioconcentration | | Bioaccumulation factor | 8 | Estimated: Bioconcentration factor |
| Styrene, polymer with 1,3-Butadiene, butylacrylate and methyl methacrylate | 25101-28-4 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Catalyst. | Trade Secret | Experimental Bioconcentration | | Log Kow | 2.57 | Non-standard method |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | 13122-18-4 | Estimated Bioconcentration | | Bioaccumulation factor | 363 | Estimated: Bioconcentration factor |

12.4. Mobility in soil

| Material | Cas No. | Test type | Study Type | Test result | Protocol |
|-----------|--------------|-------------------------------|------------|-------------|----------------------|
| Catalyst. | Trade Secret | Estimated Mobility in Soil | Koc | <2 l/kg | ACD/Labs ChemSketch™ |

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.

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

EU waste code (product as sold)

08 04 09* Waste adhesives and sealants containing organic solvents or other dangerous substances
20 01 27* Paint, inks, adhesives and resins containing dangerous substances

SECTION 14: Transportation information

Not hazardous for transportation.

| | Ground Transport (ADR) | Air Transport (IATA) | Marine Transport (IMDG) |
|--|--|--|--|
| 14.1 UN number | No data available. | No Data Available | No Data Available |
| 14.2 UN proper shipping name | No data available. | No Data Available | No Data Available |
| 14.3 Transport hazard class(es) | No data available. | No Data Available | No Data Available |
| 14.4 Packing group | No data available. | No Data Available | No Data Available |
| 14.5 Environmental hazards | No data available. | No Data Available | No Data Available |
| 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 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code | 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 Tunnel Code | No data available. | Not Applicable | No Data Available |
| ADR Classification Code | No data available. | No Data Available | No Data Available |
| ADR Transport Category | No data available. | No Data Available | No Data Available |
| ADR Multiplier | No data available. | No Data Available | No Data Available |
| IMDG Segregation Code | No data available. | No Data Available | No Data Available |
| Transport not Permitted | No data available. | No Data Available | No Data Available |

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

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

List of relevant H statements

| | |
|------|---|
| H242 | Heating may cause a fire. |
| H317 | May cause an allergic skin reaction. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Revision information:

EU Section 09: pH information information was added.
Label: CLP Percent Unknown information was modified.
Label: CLP Precautionary - Disposal information was deleted.
Label: CLP Precautionary - Prevention information was modified.
Section 03: Composition table % Column heading information was added.
Section 3: Composition/ Information of ingredients table information was modified.
Section 03: Substance not applicable information was added.
Section 04: First Aid - Symptoms and Effects (CLP) information was added.
Section 04: Information on toxicological effects information was modified.
Section 5: Hazardous combustion products table information was modified.
Section 09: Color information was added.
Section 9: Evaporation Rate information information was deleted.
Section 9: Explosive properties information information was deleted.
Section 09: Kinematic Viscosity information information was added.
Section 9: Melting point information information was modified.
Section 09: Odor information was added.
Sections 3 and 9: Odour, colour, grade information information was deleted.
Section 9: Oxidising properties information information was deleted.
Section 9: pH information information was deleted.
Section 9: Property description for optional properties information was modified.
Section 9: Vapour density value information was added.
Section 9: Viscosity information information was deleted.
Section 11: Acute Toxicity table information was modified.
Section 11: Classification disclaimer information was modified.
Section 11: Germ Cell Mutagenicity Table information was modified.
Section 11: Health Effects - Skin information information was modified.
Section 11: No endocrine disruptor information available warning information was added.
Section 11: Reproductive and/or Developmental Effects text information was deleted.
Section 11: Skin Sensitization Table information was modified.

Section 11: Target Organs - Single Table information was modified.
Section 12: 12.6. Endocrine Disrupting Properties information was added.
Section 12: 12.7. Other adverse effects information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Contact manufacturer for more detail. information was deleted.
Section 12: Mobility in soil information information was added.
Section 12: No endocrine disruptor information available warning information was added.
Section 12: No PBT/vPvB information available warning information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12: Biocumulative potential information information was modified.
Section 13: 13.1. Waste disposal note information was modified.
Section 14 Classification Code – Main Heading information was added.
Section 14 Classification Code – Regulation Data information was added.
Section 14 Control Temperature – Main Heading information was added.
Section 14 Control Temperature – Regulation Data information was added.
Section 14 Disclaimer Information information was added.
Section 14 Emergency Temperature – Main Heading information was added.
Section 14 Emergency Temperature – Regulation Data information was added.
Section 14 Hazard Class + Sub Risk – Main Heading information was added.
Section 14 Hazard Class + Sub Risk – Regulation Data information was added.
Section 14 Hazardous/Not Hazardous for Transportation information was added.
Section 14 Multiplier – Main Heading information was added.
Section 14 Multiplier – Regulation Data information was added.
Section 14 Other Dangerous Goods – Main Heading information was added.
Section 14 Other Dangerous Goods – Regulation Data information was added.
Section 14 Packing Group – Main Heading information was added.
Section 14 Packing Group – Regulation Data information was added.
Section 14 Proper Shipping Name information was added.
Section 14 Regulations – Main Headings information was added.
Section 14 Segregation – Regulation Data information was added.
Section 14 Segregation Code – Main Heading information was added.
Section 14 Special Precautions – Main Heading information was added.
Section 14 Special Precautions – Regulation Data information was added.
Section 14 Transport Category – Main Heading information was added.
Section 14 Transport Category – Regulation Data information was added.
Section 14 Transport in bulk – Regulation Data information was added.
Section 14 Transport in bulk according to Annex II of Marpol and the IBC Code – Main Heading information was added.
Section 14 Transport Not Permitted – Main Heading information was added.
Section 14 Transport Not Permitted – Regulation Data information was added.
Section 14 Tunnel Code – Main Heading information was added.
Section 14 Tunnel Code – Regulation Data information was added.
Section 14 UN Number Column data information was added.
Section 14 UN Number information was added.
Section 14: Transportation classification information was deleted.
Section 15: Chemical Safety Assessment information was modified.
Section 15: Regulations - Inventories information was deleted.
Section 16: UK disclaimer information 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. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

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