



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

M82, Swirl-Free Polish (21-101A): M8201, M8232

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

Identified uses

Automotive.

1.3. Details of the supplier of the safety data sheet

Address: Meguiars United Kingdom Limited, 3 Lamport Court, Heartlands, Daventry, Northants, NN11 8UF
Telephone: +44 (0)870 241 6696
E Mail: info@meguiars.co.uk
Website: www.meguiars.co.uk

1.4. Emergency telephone number

+44 (0)870 241 6696

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

CLASSIFICATION:

Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315

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) |

Pictograms



HAZARD STATEMENTS:

H315 Causes skin irritation.

PRECAUTIONARY STATEMENTS

General:

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.

Prevention:

P260A Do not breathe vapours.
 P262 Do not get in eyes, on skin, or on clothing.

Response:

P332 + P313 If skin irritation occurs: Get medical advice/attention.
 P331 Do NOT induce vomiting.
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.

SUPPLEMENTAL INFORMATION

Supplemental Hazard Statements:

EUH208 Contains Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

2% of the mixture consists of components of unknown acute oral toxicity.

Contains 20% of components with unknown hazards to the aquatic environment.

Notes on labelling

H304 is not required on the label due to the product's viscosity
 Nota P applied to CASRN 64742-48-9.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

| Ingredient | CAS Nbr | EU Inventory | % by Wt | Classification |
|-----------------------------------------|------------|------------------|---------|--------------------------------------------------------------------------------------------|
| Non-Hazardous Ingredients | Mixture | | 50 - 70 | |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | EINECS 265-150-3 | 10 - 30 | Asp. Tox. 1, H304 - Nota P (CLP) Skin Irrit. 2, H315; STOT SE 3, H336 (Self Classified) |
| Kaolin, calcined | 92704-41-1 | EINECS 296-473-8 | 3 - 7 | |

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| | | | | |
|-----------------------------------------------------------------------------------|--------------|------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| White mineral oil (petroleum) | 8042-47-5 | EINECS 232-455-8 | 3 - 7 | Asp. Tox. 1, H304 (Self Classified) |
| Conditioners | Trade Secret | | < 5 | |
| Ceramic materials and wares, chemicals | 66402-68-4 | EINECS 266-340-9 | 1 - 5 | |
| Glycerin | 56-81-5 | EINECS 200-289-5 | 1 - 5 | |
| Morpholine | 110-91-8 | EINECS 203-815-1 | < 0.5 | Flam. Liq. 3, H226; Acute Tox. 3, H311; Acute Tox. 4, H332; Acute Tox. 4, H302; Skin Corr. 1B, H314 (CLP) |
| PEG Stearate | 9004-99-3 | | <= 0.5 | Aquatic Acute 1, H400,M=1; Aquatic Chronic 3, H412 (Self Classified) |
| Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | 55965-84-9 | | < 0.0015 | Acute Tox. 3, H331; Acute Tox. 3, H311; Acute Tox. 3, H301; Skin Corr. 1B, H314; Skin Sens. 1A, H317; Aquatic Acute 1, H400,M=10; Aquatic Chronic 1, H410,M=10 (CLP) |

Please see section 16 for the full text of any H statements referred to in this section

Please refer to section 15 for 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. 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

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 ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

| <u>Substance</u> | <u>Condition</u> |
|----------------------------|--------------------|
| Hydrocarbons. | During combustion. |
| Carbon monoxide. | During combustion. |
| Carbon dioxide. | During combustion. |
| Irritant vapours or gases. | During combustion. |

5.3. Advice for fire-fighters

No special protective actions for fire-fighters are anticipated.

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 detergent and water. 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

Keep out of reach of children. 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. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Protect from sunlight. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidising agents.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available

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for the component.

| Ingredient | CAS Nbr | Agency | Limit type | Additional comments |
|--------------------------------------------|----------------|----------------------------|----------------------------------------------------------------------------|----------------------------|
| Morpholine | 110-91-8 | UK HSC | TWA: 36 mg/m ³ (10 ppm); STEL: 72 mg/m ³ (20 ppm) | Skin Notation |
| Glycerin | 56-81-5 | UK HSC | TWA(as mist):10 mg/m ³ | |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | Manufacturer determined | TWA:100 ppm | |

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.

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.

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

| Material | Thickness (mm) | Breakthrough Time |
|-----------------|-----------------------|--------------------------|
| Neoprene. | No data available | No data available |

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.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|------------------------------------|----------------------------------------------|
| Physical state | Liquid. |
| Appearance/Odour | Pleasant, sweet odour; White, viscous lotion |
| Odour threshold | <i>No data available.</i> |
| pH | 7.90 - 8.50 |
| Boiling point/boiling range | 193 °C |
| Melting point | <i>No data available.</i> |
| Flammability (solid, gas) | Not applicable. |

| | |
|-----------------------------------------------|--------------------------------------------------|
| Explosive properties | Not classified |
| Oxidising properties | Not classified |
| Flash point | ≥ 93.3 °C [<i>Test Method</i> :Closed Cup] |
| Autoignition temperature | <i>No data available.</i> |
| Flammable Limits(LEL) | <i>No data available.</i> |
| Flammable Limits(UEL) | <i>No data available.</i> |
| Relative density | 0.98 [<i>Ref Std</i> :WATER=1] |
| Water solubility | Moderate |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Evaporation rate | <i>No data available.</i> |
| Vapour density | <i>No data available.</i> |
| Decomposition temperature | <i>No data available.</i> |
| Viscosity | 7 - 12 Pa-s |
| Density | 0.98 g/cm ³ |

9.2. Other information

| | |
|---------------------------------------------|----------------|
| Volatile organic compounds (VOC) | 14.90 % weight |
| VOC less H ₂ O & exempt solvents | 542.36 g/l |

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.

10.5 Incompatible materials

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 3M assessments.

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

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

Skin contact

Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, dryness, cracking, blistering, and pain.

Eye contact

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

Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

Toxicological Data

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

Acute Toxicity

| Name | Route | Species | Value |
|-----------------------------------------------------------------------------------|--------------------------------|---------|------------------------------------------------|
| Overall product | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Inhalation-Vapor(4 hr) | | No data available; calculated ATE >50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Naphtha (petroleum), hydrotreated heavy | Inhalation-Vapor | | LC50 estimated to be 20 - 50 mg/l |
| Naphtha (petroleum), hydrotreated heavy | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| Naphtha (petroleum), hydrotreated heavy | Ingestion | Rat | LD50 > 5,000 mg/kg |
| White mineral oil (petroleum) | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Kaolin, calcined | Ingestion | Rat | LD50 > 2,000 mg/kg |
| White mineral oil (petroleum) | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Glycerin | Dermal | Rabbit | LD50 estimated to be > 5,000 mg/kg |
| Glycerin | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Ceramic materials and wares, chemicals | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Ceramic materials and wares, chemicals | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Morpholine | Dermal | Rabbit | LD50 310 mg/kg |
| Morpholine | Inhalation-Vapor | Rat | LC50 estimated to be 10 - 20 mg/l |
| Morpholine | Ingestion | Rat | LD50 1,050 mg/kg |
| Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | Dermal | Rabbit | LD50 87 mg/kg |
| Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | Inhalation-Dust/Mist (4 hours) | Rat | LC50 0.33 mg/l |
| Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | Ingestion | Rat | LD50 40 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|-----------------------------------------|-------------------------|---------------------------|
| Naphtha (petroleum), hydrotreated heavy | Rabbit | Irritant |
| White mineral oil (petroleum) | Rabbit | No significant irritation |
| Glycerin | Rabbit | No significant irritation |
| Ceramic materials and wares, chemicals | Rabbit | No significant irritation |
| Morpholine | official classification | Corrosive |

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| | | |
|-----------------------------------------------------------------------------------|--------|-----------|
| Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | Rabbit | Corrosive |
|-----------------------------------------------------------------------------------|--------|-----------|

Serious Eye Damage/Irritation

| Name | Species | Value |
|-----------------------------------------------------------------------------------|---------|---------------------------|
| Naphtha (petroleum), hydrotreated heavy | Rabbit | No significant irritation |
| White mineral oil (petroleum) | Rabbit | Mild irritant |
| Glycerin | Rabbit | No significant irritation |
| Ceramic materials and wares, chemicals | Rabbit | Mild irritant |
| Morpholine | Rabbit | Corrosive |
| Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | Rabbit | Corrosive |

Skin Sensitisation

| Name | Species | Value |
|-----------------------------------------------------------------------------------|------------------|-----------------|
| Naphtha (petroleum), hydrotreated heavy | Guinea pig | Not sensitising |
| White mineral oil (petroleum) | Guinea pig | Not sensitising |
| Glycerin | Guinea pig | Not sensitising |
| Morpholine | Guinea pig | Not sensitising |
| Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | Human and animal | Sensitising |

Photosensitisation

| Name | Species | Value |
|-----------------------------------------------------------------------------------|------------------|-----------------|
| Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | Human and animal | Not 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 |
|-----------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------|
| Naphtha (petroleum), hydrotreated heavy | In vivo | Not mutagenic |
| Naphtha (petroleum), hydrotreated heavy | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| White mineral oil (petroleum) | In Vitro | Not mutagenic |
| Ceramic materials and wares, chemicals | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Morpholine | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Morpholine | In vivo | Some positive data exist, but the data are not sufficient for classification |
| Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | In vivo | Not mutagenic |
| Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | In Vitro | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|-----------------------------------------|------------|------------------|------------------------------------------------------------------------------|
| Naphtha (petroleum), hydrotreated heavy | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Naphtha (petroleum), hydrotreated heavy | Inhalation | Human and animal | Some positive data exist, but the data are not sufficient for classification |
| White mineral oil (petroleum) | Dermal | Mouse | Not carcinogenic |

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| | | | |
|-----------------------------------------------------------------------------------|------------|-------------------------|------------------------------------------------------------------------------|
| White mineral oil (petroleum) | Inhalation | Multiple animal species | Not carcinogenic |
| Glycerin | Ingestion | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Ceramic materials and wares, chemicals | Inhalation | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Morpholine | Ingestion | Multiple animal species | Not carcinogenic |
| Morpholine | Inhalation | Rat | Not carcinogenic |
| Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | Dermal | Mouse | Not carcinogenic |
| Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | Ingestion | Rat | Not carcinogenic |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|-----------------------------------------------------------------------------------|------------|----------------------------------|---------|-----------------------|----------------------|
| Naphtha (petroleum), hydrotreated heavy | Inhalation | Not toxic to development | Rat | NOAEL 2.4 mg/l | during organogenesis |
| White mineral oil (petroleum) | Ingestion | Not toxic to female reproduction | Rat | NOAEL 4,350 mg/kg/day | 13 weeks |
| White mineral oil (petroleum) | Ingestion | Not toxic to male reproduction | Rat | NOAEL 4,350 mg/kg/day | 13 weeks |
| White mineral oil (petroleum) | Ingestion | Not toxic to development | Rat | NOAEL 4,350 mg/kg/day | during gestation |
| Glycerin | Ingestion | Not toxic to female reproduction | Rat | NOAEL 2,000 mg/kg/day | 2 generation |
| Glycerin | Ingestion | Not toxic to male reproduction | Rat | NOAEL 2,000 mg/kg/day | 2 generation |
| Glycerin | Ingestion | Not toxic to development | Rat | NOAEL 2,000 mg/kg/day | 2 generation |
| Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | Ingestion | Not toxic to female reproduction | Rat | NOAEL 10 mg/kg/day | 2 generation |
| Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | Ingestion | Not toxic to male reproduction | Rat | NOAEL 10 mg/kg/day | 2 generation |
| Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | Ingestion | Not toxic to development | Rat | NOAEL 15 mg/kg/day | during organogenesis |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|-----------------------------------------|------------|-----------------------------------|------------------------------------------------------------------------------|------------------|---------------------|-------------------|
| Naphtha (petroleum), hydrotreated heavy | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| Naphtha (petroleum), hydrotreated heavy | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| Naphtha (petroleum), hydrotreated heavy | Inhalation | nervous system | Some positive data exist, but the data are not sufficient for classification | Dog | NOAEL 6.5 mg/l | 4 hours |
| Morpholine | Inhalation | respiratory irritation | Some positive data exist, but the | | NOAEL Not | |

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| | | | | | | |
|-----------------------------------------------------------------------------------|------------|------------------------|------------------------------------------------------------------------------|------------------------|---------------------|--|
| | | | data are not sufficient for classification | | available | |
| Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | 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 |
|-----------------------------------------|------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------|------------------------|-----------------------|
| Naphtha (petroleum), hydrotreated heavy | Inhalation | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 4.6 mg/l | 6 months |
| Naphtha (petroleum), hydrotreated heavy | Inhalation | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 1.9 mg/l | 13 weeks |
| Naphtha (petroleum), hydrotreated heavy | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL 0.6 mg/l | 90 days |
| Naphtha (petroleum), hydrotreated heavy | Inhalation | bone, teeth, nails, and/or hair blood liver muscles | All data are negative | Rat | NOAEL 5.6 mg/l | 12 weeks |
| Naphtha (petroleum), hydrotreated heavy | Inhalation | heart | All data are negative | Multiple animal species | NOAEL 1.3 mg/l | 90 days |
| White mineral oil (petroleum) | Ingestion | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1,381 mg/kg/day | 90 days |
| White mineral oil (petroleum) | Ingestion | liver immune system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1,336 mg/kg/day | 90 days |
| Glycerin | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 3.91 mg/l | 14 days |
| Glycerin | Inhalation | heart liver kidney and/or bladder | All data are negative | Rat | NOAEL 3.91 mg/l | 14 days |
| Glycerin | Ingestion | endocrine system hematopoietic system liver kidney and/or bladder | All data are negative | Rat | NOAEL 10,000 mg/kg/day | 2 years |
| Ceramic materials and wares, chemicals | Inhalation | pulmonary fibrosis | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL not available | |
| Ceramic materials and wares, chemicals | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL not available | occupational exposure |
| Morpholine | Dermal | liver kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Guinea pig | LOAEL 900 mg/kg/day | 13 days |
| Morpholine | Dermal | hematopoietic system | All data are negative | Guinea pig | NOAEL 900 mg/kg/day | 13 days |
| Morpholine | Inhalation | eyes | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| Morpholine | Inhalation | respiratory system | May cause damage to organs though prolonged or repeated exposure | Rat | NOAEL 0.09 mg/l | 13 weeks |
| Morpholine | Inhalation | liver kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 64 mg/l | 5 days |
| Morpholine | Inhalation | heart endocrine system | All data are negative | Rat | NOAEL 0.9 mg/l | 13 weeks |
| Morpholine | Inhalation | nervous system | All data are negative | Rat | NOAEL 0.53 mg/l | 104 weeks |
| Morpholine | Ingestion | kidney and/or bladder | May cause damage to organs though prolonged or repeated exposure | Rat | LOAEL 160 mg/kg/day | 30 days |
| Morpholine | Ingestion | liver respiratory | Some positive data exist, but the | Rat | NOAEL 160 | 30 days |

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| | | | | | | |
|------------|-----------|----------------------|------------------------------------------------------------------------------|-----|---------------------|---------|
| | | system | data are not sufficient for classification | | mg/kg/day | |
| Morpholine | Ingestion | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 800 mg/kg/day | 30 days |
| Morpholine | Ingestion | endocrine system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 323 mg/kg/day | 4 weeks |

Aspiration Hazard

| Name | Value |
|-----------------------------------------|-------------------|
| Naphtha (petroleum), hydrotreated heavy | Aspiration hazard |
| White mineral oil (petroleum) | 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 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 Nbr | Organism | Type | Exposure | Test endpoint | Test result |
|-----------------------------------------------------------------------------------|------------|------------|-------------------------------------------------------|----------|---------------|-------------|
| Kaolin, calcined | 92704-41-1 | | Data not available or insufficient for classification | | | |
| Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | 55965-84-9 | Diatom | Experimental | 72 hours | NOEC | 0.01 mg/l |
| Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | 55965-84-9 | Water flea | Experimental | 48 hours | EC50 | 0.18 mg/l |
| Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | 55965-84-9 | Diatom | Experimental | 72 hours | EC50 | 0.021 mg/l |

M82, Swirl-Free Polish (21-101A): M8201, M8232

| | | | | | | |
|-----------------------------------------|------------|---------------|-------------------------------------------------------|----------|------------------|--------------|
| White mineral oil (petroleum) | 8042-47-5 | Bluegill | Experimental | 96 hours | Lethal Level 50% | >100 mg/l |
| White mineral oil (petroleum) | 8042-47-5 | Water flea | Experimental | 21 days | NOEC | >100 mg/l |
| Ceramic materials and wares, chemicals | 66402-68-4 | | Data not available or insufficient for classification | | | |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | | Data not available or insufficient for classification | | | |
| Morpholine | 110-91-8 | Rainbow trout | Experimental | 96 hours | LC50 | 380 mg/l |
| Morpholine | 110-91-8 | Water flea | Experimental | 48 hours | EC50 | 45 mg/l |
| Morpholine | 110-91-8 | Green algae | Experimental | 96 hours | EC50 | 28 mg/l |
| Morpholine | 110-91-8 | Water flea | Experimental | 21 days | NOEC | 5 mg/l |
| PEG Stearate | 9004-99-3 | Green algae | Estimated | 72 hours | NOEC | 0.25 mg/l |
| PEG Stearate | 9004-99-3 | Green algae | Estimated | 72 hours | EC50 | 0.64 mg/l |
| PEG Stearate | 9004-99-3 | Water flea | Estimated | 48 hours | EC50 | 0.72 mg/l |
| PEG Stearate | 9004-99-3 | Zebra Fish | Estimated | 96 hours | LC50 | 0.65 mg/l |
| Glycerin | 56-81-5 | Water flea | Experimental | 24 hours | EC50 | >10,000 mg/l |
| Glycerin | 56-81-5 | Goldfish | Experimental | 24 hours | LC50 | >5,000 mg/l |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|-----------------------------------------------------------------------------------|------------|-------------------------------------------------------|----------|--------------------------------|-------------------|-----------------------------------|
| Kaolin, calcined | 92704-41-1 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | 55965-84-9 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| White mineral oil (petroleum) | 8042-47-5 | Experimental Biodegradation | 28 days | CO2 evolution | 0 % weight | OECD 301B - Modified sturm or CO2 |
| Ceramic materials and wares, chemicals | 66402-68-4 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Morpholine | 110-91-8 | Modeled Photolysis | | Photolytic half-life (in air) | 2.8 hours (t 1/2) | Other methods |
| Morpholine | 110-91-8 | Experimental Biodegradation | 28 days | Dissolv. Organic Carbon Deplet | 93 % weight | OECD 301E - Modified OECD Scre |
| PEG Stearate | 9004-99-3 | Estimated | 28 days | CO2 evolution | 85.3 % weight | OECD 301B - |

M82, Swirl-Free Polish (21-101A): M8201, M8232

| | | | | | | |
|----------|---------|-----------------------------|---------|-----|-------------|---------------------------|
| | | Biodegradation | | | | Modified sturm or CO2 |
| Glycerin | 56-81-5 | Experimental Biodegradation | 14 days | BOD | 63 % weight | OECD 301C - MITI test (I) |

12.3 : Bioaccumulative potential

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|-----------------------------------------------------------------------------------|------------|-------------------------------------------------------|----------|------------------------|-------------|------------------------------------|
| Kaolin, calcined | 92704-41-1 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one | 55965-84-9 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| White mineral oil (petroleum) | 8042-47-5 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Ceramic materials and wares, chemicals | 66402-68-4 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Morpholine | 110-91-8 | Experimental BCF - Other | 42 days | Bioaccumulation factor | <2.8 | OECD 305C-Bioaccum degree fish |
| PEG Stearate | 9004-99-3 | Estimated Bioconcentration | | Bioaccumulation factor | 5.5 | Estimated: Bioconcentration factor |
| Glycerin | 56-81-5 | Experimental Bioconcentration | | Log Kow | -1.76 | Other methods |

12.4. Mobility in soil

Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

No information available at this time, contact manufacturer for more details

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

See Section 11.1 Information on toxicological effects

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate 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 the manufacturer, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/CE 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)

20 01 13* Solvents

SECTION 14: Transportation information

ADR: Not restricted for transport.

IMDG: Not restricted for transport.

IATA: Not restricted for transport.

SECTION 15: Regulatory information

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

Carcinogenicity

Ingredient

Morpholine

CAS Nbr

110-91-8

Classification

Gr. 3: Not classifiable

Regulation

International Agency
for Research on Cancer

Global inventory status

Contact manufacturer for more information. The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional 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. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. The components of this product are in compliance with the chemical notification requirements of TSCA.

15.2. Chemical Safety Assessment

Not applicable

SECTION 16: Other information

List of relevant H statements

| | |
|------|-----------------------------------------------|
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |

| | |
|------|-------------------------------------------------------|
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Revision information:

Revision Changes:

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

Section 12: Component ecotoxicity information information was modified.

Section 12: Persistence and Degradability information information was modified.

Section 12: Bioaccumulative potential information information was modified.

Section 11: Aspiration Hazard Table information was modified.

Section 11: Acute Toxicity table information was modified.

Section 11: Carcinogenicity Table information was modified.

Section 11: Serious Eye Damage/Irritation Table information was modified.

Section 11: Germ Cell Mutagenicity Table information was modified.

Section 11: Skin Sensitization Table information was modified.

Photosensitisation Table information was modified.

Section 11: Reproductive Toxicity Table information was modified.

Section 11: Skin Corrosion/Irritation Table information was modified.

Section 11: Target Organs - Repeated Table information was modified.

Section 11: Target Organs - Single Table information was modified.

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

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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