



SAFETY DATA SHEET

Murfill Renovation Paint

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

1.1 Product identifier

Product name : Murfill Renovation Paint
Product description : Paint
Product type : Liquid.
UFI : 82V1-904D-F00X-020F

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

| Identified uses | |
|--|--------|
| Consumer Industrial Professional | |
| Uses advised against | Reason |
| None identified. | - |

1.3 Details of the supplier of the safety data sheet

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Fax no.: +32 (0) 13 460 201

Tor Coatings Limited
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Telephone no.: +44 (0) 191 4106611
Fax no.: +44 (0) 191 4920125
enquiries@tor-coatings.com

e-mail address of person responsible for this SDS : rpmeurohas@rustoleum.eu

1.4 Emergency telephone number

National advisory body/Poison Centre

Supplier

Telephone number United Kingdom: : +44 870 8200418 / +44 2038073798
Great Britain
Hours of operation : 24 / 7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Skin Sens. 1, H317
Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
See Section 16 for the full text of the H statements declared above.

SECTION 2: Hazards identification

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :



Signal word :

Warning

Hazard statements :

H317 - May cause an allergic skin reaction.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

General :

P103 - Read carefully and follow all instructions.
P102 - Keep out of reach of children.
P101 - If medical advice is needed, have product container or label at hand.

Prevention :

P280 - Wear protective gloves.

Response :

Not applicable.

Storage :

Not applicable.

Disposal :

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients :

Poly[oxy(methyl-1,2-ethanediyl)], α -(methylphenyl)- ω -hydroxy-2-octyl-2H-isothiazol-3-one
1,2-benzisothiazol-3(2H)-one
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Supplemental label elements :

EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Supplemental label elements : Detergents - Regulation (EC) No 907/2006 :

Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles :

Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings :

Not applicable.

Tactile warning of danger :

Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII :

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification :

None known.

Murfill Renovation Paint

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| Product/ingredient name | Identifiers | % | Classification | Type |
|---|---|--------|---|---------|
| hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics | REACH #: 01-2119457273-39 EC: 918-481-9 Index: 649-327-00-6 | ≤1 | Asp. Tox. 1, H304 EUH066 | [1] [2] |
| Poly[oxy(methyl-1,2-ethanediyl)],α-(methylphenyl)-ω-hydroxy- | REACH #: 02-2119549982-25 CAS: 9064-13-5 | <1 | Skin Sens. 1B, H317 | [1] |
| Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts | REACH #: 01-2119492361-39 CAS: 119345-04-9 | ≤0,3 | Eye Dam. 1, H318 Repr. 2, H361fd Aquatic Chronic 2, H411 | [1] |
| 2-octyl-2H-isothiazol-3-one | EC: 247-761-7 CAS: 26530-20-1 Index: 613-112-00-5 | ≤0,3 | Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 | [1] |
| 2-octyl-2H-isothiazol-3-one | REACH #: 17-2119390467-28 EC: 247-761-7 CAS: 26530-20-1 Index: 613-112-00-5 | ≤0,013 | Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071 | [1] |
| 1,2-benzisothiazol-3(2H)-one | REACH #: 01-2120761540-60 EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6 | <0,036 | Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) | [1] |
| terbutryn | EC: 212-950-5 CAS: 886-50-0 | ≤0,011 | Acute Tox. 4, H302 Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) | [1] |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | REACH #: 01-2120764691-48 CAS: 55965-84-9 Index: 613-167-00-5 | <0,001 | Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071 See Section 16 for the full text of the H statements declared above. | [1] |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

SECTION 3: Composition/information on ingredients

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

This mixture contains $\geq 1\%$ of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to British standard BS EN 469 will provide a basic level of protection for chemical incidents.

Additional information : No unusual hazard if involved in a fire.

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

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

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SECTION 6: Accidental release measures

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.
 See Section 8 for information on appropriate personal protective equipment.
 See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 4 to 26°C (39,2 to 78,8°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|--|---|
| hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics | Recommended by manufacturer (GB, 2009) [hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics] TWA 8 hours: 1200 mg/m ³ ((184 ppm)). Form: Vapour. |

Biological exposure indices

No exposure indices known.

- Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Type | Exposure | Value | Population | Effects | |
|---|------------------------------|---|-----------------------|------------------------|------------------------|----------|
| Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts | DNEL | Long term Oral | 9,14 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Dermal | 9,14 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Inhalation | 16 mg/m ³ | General population | Systemic | |
| | DNEL | Long term Dermal | 18,2 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Long term Inhalation | 64 mg/m ³ | Workers | Systemic | |
| | 1,2-benzisothiazol-3(2H)-one | DNEL | Long term Inhalation | 6,81 mg/m ³ | Workers | Systemic |
| | | DNEL | Long term Inhalation | 1,2 mg/m ³ | General population | Systemic |
| | | DNEL | Long term Dermal | 0,966 mg/kg bw/day | Workers | Systemic |
| | | DNEL | Long term Dermal | 0,345 mg/kg bw/day | General population | Systemic |
| | | reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | DNEL | Long term Inhalation | 0,02 mg/m ³ | Workers |
| DNEL | | | Short term Inhalation | 0,04 mg/m ³ | Workers | Local |
| DNEL | | | Long term Inhalation | 0,02 mg/m ³ | General population | Local |
| DNEL | | | Short term Inhalation | 0,04 mg/m ³ | General population | Local |
| DNEL | | | Long term Oral | 0,09 mg/kg bw/day | General population | Systemic |
| DNEL | | | Short term Oral | 0,11 mg/kg bw/day | General population | Systemic |

PNECs

| Product/ingredient name | Compartment Detail | Value | Method Detail | |
|------------------------------|---|------------------------|-----------------|---|
| 1,2-benzisothiazol-3(2H)-one | Fresh water | 0,00403 mg/l | - | |
| | Marine water | 0,000403 mg/l | - | |
| | Sewage Treatment Plant | 1,03 mg/l | - | |
| | Fresh water sediment | 0,0499 mg/kg dwt | - | |
| | Marine water sediment | 0,00499 mg/kg dwt | - | |
| | Soil | 3 mg/kg dwt | - | |
| | reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | Fresh water | 3,39 ng/l | - |
| | | Sewage Treatment Plant | 0,23 mg/l | - |
| | | Marine water | 3,39 ng/l | - |
| | | Soil | 0,01 mg/kg dwt | - |
| | | Fresh water sediment | 0,027 mg/kg dwt | - |
| | | Marine water sediment | 0,027 mg/kg dwt | - |
| | | Fresh water | 0,00339 mg/l | - |
| | | Marine water | 0,00339 mg/l | - |
| | | Sewage Treatment Plant | 0,23 mg/l | - |
| | | Fresh water sediment | 0,027 mg/kg | - |
| | | Marine water sediment | 0,027 mg/kg | - |
| | | Soil | 0,01 mg/kg | - |

SECTION 8: Exposure controls/personal protection

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Use eye protection according to EN 166. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): nitrile rubber (0.5mm)

The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN374. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: (EN 467) Wear overalls or long sleeved shirt.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapour filter (Type A) particulate filter (EN 140)

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | : Liquid. [Viscous liquid.] |
| Colour | : Various |
| Odour | : Not available. |
| Odour threshold | : Not available. |
| Melting point/freezing point | : 0°C [Literature] |
| Initial boiling point and boiling range | : >100°C (>212°F) [Literature] |
| Flammability (solid, gas) | : Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts. Non-flammable but will burn on prolonged exposure to flame or high temperature. |
| Lower and upper explosion limit | : Not available. |
| Flash point | : Not relevant due to nature of the product. |
| Auto-ignition temperature | : Not relevant due to nature of the product. |
| Decomposition temperature | : Not available. |
| pH | : 8 to 9 [Conc. (% w/w): 100%] [OECD 122] |
| pH : Justification | : Not available. |
| Viscosity | : Dynamic (room temperature): 8000 to 9000 mPa·s [ISO EN BS DIN 3219] Kinematic (room temperature): 5714 to 6818 mm ² /s [calculated.] Kinematic (40°C): >20,5 mm ² /s [calculated.] |
| Solubility(ies) | : |

| Media | Result |
|------------|-----------------------|
| cold water | Soluble |
| hot water | Soluble |
| methanol | Very slightly soluble |
| acetone | Very slightly soluble |

| | |
|--|---|
| Solubility in water | : Not available. |
| Partition coefficient: n-octanol/ water | : Not applicable. |
| Vapour pressure | : 2,3 kPa (17,25 mm Hg) [Literature] |
| Evaporation rate | : <1 (butyl acetate = 1) |
| Relative density | : Not available. |
| Density | : 1,32 to 1,4 g/cm ³ [20°C (68°F)] [DIN 53217] |
| Vapour density | : >1 [Air = 1] |
| Explosive properties | : Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. No unusual hazard if involved in a fire. |
| Oxidising properties | : Not available. |
| Particle characteristics | |
| Median particle size | : Not applicable. |

SECTION 10: Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : No specific data.
- 10.5 Incompatible materials** : No specific data.
- 10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---------------------------------|--------------------|------------------------|----------|
| hydrocarbons, C10-C13, n-/iso-/ cyclo-alkanes, < 2% aromatics | LC50 Inhalation Vapour | Rat | 5000 mg/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| Poly[oxy(methyl-1,2-ethanediyl)], α -(methylphenyl)- ω -hydroxy- | LD50 Oral | Rat | 6000 mg/kg | - |
| | LD50 Oral | Rat | >2000 mg/kg | - |
| Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts | LD50 Oral | Rat | 1976 mg/kg | - |
| | LD50 Oral | Rat | 1976 mg/kg | - |
| 2-octyl-2H-isothiazol-3-one | LC50 Inhalation Dusts and mists | Rat | 0,27 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 311 mg/kg | - |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | 248 mg/kg | - |
| 2-octyl-2H-isothiazol-3-one | LC50 Inhalation Dusts and mists | Rat | 0,27 mg/l | 4 hours |
| | LD50 Oral | Rat | 248 mg/kg | - |
| 1,2-benzisothiazol-3(2H)-one | LC50 Inhalation Dusts and mists | Rat | 0,11 mg/l | 4 hours |
| | LC50 Inhalation Dusts and mists | Rat - Male, Female | 0,5 mg/l | 4 hours |
| terbutryn | LD50 Oral | Rat - Male | 490 mg/kg | - |
| | LC50 Inhalation Dusts and mists | Rat | >2200 mg/l | 4 hours |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | LD50 Dermal | Rabbit | >10200 mg/kg | - |
| | LD50 Oral | Rat | 2045 mg/kg | - |
| | LC50 Inhalation Dusts and mists | Rat - Male, Female | 0,171 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 92,4 mg/kg | - |
| | LD50 Oral | Rat | 64 mg/kg | - |

Conclusion/Summary : Based on available data, the classification criteria are not met.

Acute toxicity estimates

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SECTION 11: Toxicological information

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| Murfill Renovation Paint | 115740,7 | 287963,0 | N/A | N/A | 250 |
| Poly[oxy(methyl-1,2-ethanediyl)], α -(methylphenyl)- ω -hydroxy- | 6000 | N/A | N/A | N/A | N/A |
| 2-octyl-2H-isothiazol-3-one | 125 | 311 | N/A | N/A | 0,27 |
| 2-octyl-2H-isothiazol-3-one | 125 | 311 | N/A | N/A | 0,27 |
| 1,2-benzisothiazol-3(2H)-one | 450 | N/A | N/A | N/A | 0,21 |
| terbutryn | 500 | N/A | N/A | N/A | N/A |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 64 | 92,4 | N/A | N/A | 0,171 |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|--------------------------|---------|-------|----------------|--------------|
| Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts | Eyes - Moderate irritant | Rabbit | - | 5 mg | - |
| | Eyes - Severe irritant | Rabbit | - | 0.1 MI | - |
| | Skin - Mild irritant | Rabbit | - | 0.5 MI | - |
| 2-octyl-2H-isothiazol-3-one terbutryn | Eyes - Severe irritant | Rabbit | - | - | - |
| | Eyes - Moderate irritant | Rabbit | - | 76 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 380 milligrams | - |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | Eyes - Severe irritant | Rabbit | - | - | - |
| | Skin - Severe irritant | Human | - | 0.01 Percent | - |
| | Skin - Severe irritant | Rabbit | - | - | 1 to 4 hours |

Skin : Based on available data, the classification criteria are not met.**Eyes** : Based on available data, the classification criteria are not met.**Respiratory** : Based on available data, the classification criteria are not met.**Respiratory or skin sensitization**

| Product/ingredient name | Route of exposure | Species | Result |
|--|-------------------|------------|-------------|
| Poly[oxy(methyl-1,2-ethanediyl)], α -(methylphenyl)- ω -hydroxy-2-octyl-2H-isothiazol-3-one 1,2-benzisothiazol-3(2H)-one reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | skin | Mouse | Sensitising |
| | skin | Rat | Sensitising |
| | skin | Guinea pig | Sensitising |
| | skin | Guinea pig | Sensitising |

Skin : May cause an allergic skin reaction.**Respiratory** : Based on available data, the classification criteria are not met.**Mutagenicity****Conclusion/Summary** : Based on available data, the classification criteria are not met.**Carcinogenicity****Conclusion/Summary** : Based on available data, the classification criteria are not met.**Reproductive toxicity****Conclusion/Summary** : Based on available data, the classification criteria are not met.

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SECTION 11: Toxicological information

Teratogenicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

| Product/ingredient name | Result |
|--|--------------------------------|
| hydrocarbons, C10-C13, n-/ iso-/ cyclo-alkanes, < 2% aromatics | ASPIRATION HAZARD - Category 1 |

Information on likely routes of exposure : Routes of entry anticipated: Oral, Inhalation, Eyes.
Routes of entry not anticipated: Dermal.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
irritation
redness

Ingestion : No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Based on available data, the classification criteria are not met.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|----------|
| hydrocarbons, C10-C13, n-/iso-/ cyclo-alkanes, < 2% aromatics | Acute EC50 >1000 mg/l | Daphnia spec. | 4 hours |
| | Acute IC50 >1000 mg/l | Algae | 4 hours |
| 2-octyl-2H-isothiazol-3-one | Acute LC50 >1000 mg/l | Fish | 4 hours |
| | Acute EC50 0,32 to 0,834 mg/l Fresh water | Daphnia spec. - Water flea - <i>Daphnia magna</i> | 48 hours |
| | Acute IC50 0,084 mg/l | Algae - Scenedesmus subspicatus | 72 hours |
| | Acute LC50 0,0655 to 0,104 mg/l Fresh water | Fish - Rainbow trout (oncorhynchus mykiss) | 96 hours |
| 1,2-benzisothiazol-3(2H)-one | Acute LC50 0,14 to 0,202 mg/l Fresh water | Fish - Fathead minnow - <i>Pimephales promelas</i> | 96 hours |
| | Acute EC50 0,11 mg/l | Algae - Algae | 72 hours |
| | Acute EC50 0,067 mg/l | Algae - <i>Pseudokirchneriella subcapitata</i> | 72 hours |
| | Acute EC50 0,9893 mg/l Marine water | Crustaceans - <i>Opossum Shrimp</i> | 96 hours |
| | Acute EC50 2,94 mg/l Fresh water | Daphnia spec. - Daphnia spec. | 48 hours |
| | Acute LC50 2,18 mg/l Fresh water | Fish - Rainbow trout (oncorhynchus mykiss) | 96 hours |
| | Acute LC50 8 to 13 mg/l | Fish - <i>Alburnus alburnus</i> | 96 hours |
| | Acute LC50 1,6 to 2,8 ppm Fresh water | Fish - Rainbow trout, donaldson trout - <i>Oncorhynchus mykiss</i> | 96 hours |
| | Chronic NOEC 90 mg/l | Aquatic plants - <i>Phaseolus vulgaris</i> | 20 days |
| | Chronic NOEC 1,2 mg/l | Daphnia spec. - Daphnia spec. | 21 days |
| terbutryn | Chronic NOEC 0,21 mg/l | Fish - Rainbow trout (oncorhynchus mykiss) | 28 days |
| | Chronic NOEL 0,0403 mg/l | Algae - Algae | 72 hours |
| | Acute EC50 0,1 µg/l Fresh water | Algae - Diatom - <i>Fragilaria capucina ssp. rumpens</i> | 96 hours |
| | Acute EC50 2 µg/l Fresh water | Algae - Green algae - <i>Pseudokirchneriella subcapitata</i> | 72 hours |
| | Acute EC50 2,66 ppm Fresh water | Daphnia spec. - Water flea - <i>Daphnia magna</i> | 48 hours |
| | Acute IC50 0,0055 mg/l | Algae | 72 hours |
| | Acute LC50 579,3 mg/l Fresh water | Crustaceans - Signal crayfish - <i>Pacifastacus leniusculus</i> - Juvenile (Fledgling, Hatchling, Weanling) | 48 hours |
| | Acute LC50 1,8 to 1400 µg/l Fresh water | Fish - Crucian carp - <i>Carassius carassius</i> | 96 hours |
| | Acute LC50 0,82 ppm Fresh water | Fish - Rainbow trout, donaldson trout - <i>Oncorhynchus mykiss</i> | 96 hours |
| | Chronic EC10 0,015 µg/l Fresh water | Algae - Diatom - <i>Fragilaria capucina ssp. rumpens</i> | 96 hours |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | Acute EC50 0,037 mg/l Fresh water | Algae | 48 hours |
| | Acute EC50 0,16 mg/l Fresh water | Daphnia spec. | 48 hours |
| | Acute LC50 0,19 mg/l Fresh water | Fish - Rainbow trout (oncorhynchus mykiss) | 96 hours |
| | Acute NOEC 0,004 mg/l Marine water | Algae | 48 hours |
| | Chronic NOEC 0,18 mg/l | Daphnia spec. - Daphnia spec. | 21 days |
| | Chronic NOEC 0,02 mg/l Fresh water | Fish - Rainbow trout (oncorhynchus mykiss) | 38 days |

Conclusion/Summary : Harmful to aquatic life with long lasting effects.

SECTION 12: Ecological information

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|--|-----------|--------------------------------|------------------|------------------|
| Poly[oxy(methyl-1,2-ethanediyl)], α -(methylphenyl)- ω -hydroxy-2-octyl-2H-isothiazol-3-one | OECD 301F | 80 to 90 % - Readily - 28 days | - | Activated sludge |
| | OECD 303A | >80 % - Readily - 4 days | - | - |
| | OECD 309 | 90 % - Readily - 4 days | 0,01 to 0,1 mg/l | - |
| | OECD 309 | 50 % - Readily - 2 days | 0,01 to 0,1 mg/l | - |
| | OECD 303A | >90 % - Readily - 1 days | - | - |
| | OECD 301D | >60 % - Readily - 28 days | - | - |
| 1,2-benzisothiazol-3(2H)-one reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | - | <50 % - 10 days | - | - |

Conclusion/Summary : This product has not been tested for biodegradation.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|---------------------------------|------------------|------------------|
| hydrocarbons, C10-C13, n-/iso-/ cyclo-alkanes, < 2% aromatics | Fresh water <28 days, 5 to 25°C | 80%; < 28 day(s) | Readily |
| Poly[oxy(methyl-1,2-ethanediyl)], α -(methylphenyl)- ω -hydroxy- | - | - | Readily |
| Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts | - | - | Inherent |
| 2-octyl-2H-isothiazol-3-one | - | - | Readily |
| 2-octyl-2H-isothiazol-3-one | Fresh water 2 days, 20°C | - | Readily |
| 1,2-benzisothiazol-3(2H)-one | - | - | Readily |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | - | - | Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|---|--------------------|-----|-----------|
| Poly[oxy(methyl-1,2-ethanediyl)], α -(methylphenyl)- ω -hydroxy- | 2,78 | - | Low |
| Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts | -2,68 | - | Low |
| 2-octyl-2H-isothiazol-3-one | 2,9 | - | Low |
| 2-octyl-2H-isothiazol-3-one | 2,9 | - | Low |
| 1,2-benzisothiazol-3(2H)-one | 0,64 | - | Low |
| terbutryn | 3,74 | - | Low |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | -0.83 to 0.75 | - | Low |

12.4 Mobility in soil

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SECTION 12: Ecological information

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Nonvolatile liquid.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance.

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes.

Waste catalogue

| Waste code | Waste designation |
|------------|---|
| 08 01 15* | aqueous sludges containing paint or varnish containing organic solvents or other hazardous substances |

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|--|----------------|----------------|----------------|----------------|
| 14.1 UN number or ID number | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name | - | - | - | - |
| 14.3 Transport hazard class(es) | - | - | - | - |
| 14.4 Packing group | - | - | - | - |
| 14.5 Environmental hazards | No. | No. | No. | No. |
| | | | | |

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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SECTION 14: Transport information

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed above the relevant limit.

Substances of very high concern

None of the components are listed above the relevant limit.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

| Product/ingredient name | % | Designation [Usage] |
|--------------------------|-----|---------------------|
| Murfill Renovation Paint | ≥90 | 3 |

Labelling : Not applicable.

Other EU regulations

VOC : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

VOC for Ready-for-Use Mixture : IIA/i. One-pack performance coatings. EU limit value for this product : 140g/l (2010.) This product contains a maximum of 30 g/l VOC.

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

International regulations

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SECTION 15: Regulatory information

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

CN code : 3209 10 00 00

Inventory list

| | |
|--|--|
| Australia | : At least one component is not listed. |
| Canada | : At least one component is not listed. |
| China | : At least one component is not listed. |
| Eurasian Economic Union | : Russian Federation inventory : Not determined. |
| Japan | : Japan inventory (CSCL) : At least one component is not listed. Japan inventory (ISHL) : At least one component is not listed. |
| New Zealand | : At least one component is not listed. |
| Philippines | : At least one component is not listed. |
| Republic of Korea | : At least one component is not listed. |
| Taiwan | : At least one component is not listed. |
| Thailand | : Not determined. |
| Turkey | : Not determined. |
| United States | : At least one component is not listed. |
| Viet Nam | : Not determined. |
| 15.2 Chemical safety assessment | : This product contains substances for which Chemical Safety Assessments are still required. |

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

| | |
|-----------------------------------|--|
| Abbreviations and acronyms | : ATE = Acute Toxicity Estimate GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = GB CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative |
|-----------------------------------|--|

Procedure used to derive the classification

| Classification | Justification |
|-------------------------|--------------------|
| Skin Sens. 1, H317 | Calculation method |
| Aquatic Chronic 3, H412 | Calculation method |

Full text of abbreviated H statements

Murfill Renovation Paint

SECTION 16: Other information

| | |
|--------|--|
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H310 | Fatal in contact with skin. |
| 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. |
| H318 | Causes serious eye damage. |
| H330 | Fatal if inhaled. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| 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. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| EUH071 | Corrosive to the respiratory tract. |

Full text of classifications

| | |
|-------------------|---|
| Acute Tox. 2 | ACUTE TOXICITY - Category 2 |
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Repr. 2 | REPRODUCTIVE TOXICITY - Category 2 |
| Skin Corr. 1 | SKIN CORROSION/IRRITATION - Category 1 |
| Skin Corr. 1C | SKIN CORROSION/IRRITATION - Category 1C |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| Skin Sens. 1A | SKIN SENSITISATION - Category 1A |
| Skin Sens. 1B | SKIN SENSITISATION - Category 1B |

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IMPORTANT NOTE: The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates. Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

MANUFACTURER'S DISCLAIMER: the conditions, methods and factors affecting the handling, storage, application, use and disposal of the product are not under the control and knowledge of the manufacturer. Therefore the manufacturer does not assume responsibility for any adverse events which may occur in the handling, storage, application, use, misuse or disposal of the product and, so far as permitted by applicable law, the manufacturer expressly disclaims liability for any and all loss, damages and/or expenses arising out of or in any way connected to the storage, handling, use or disposal of the product. Safe handling, storage, use and disposal are the responsibility of the users. Users must comply with all applicable health and safety laws.

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SECTION 16: Other information

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.