# SAFETY DATA SHEET

MM 938 WaterBase 900+ Series Red

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

### 1.1 Product identifier

**Product name** : MM 938 WaterBase 900+ Series Red

**Product code** : 9938

**Product description** : Not available.

**Product type** : Liquid.

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

| Identified uses |
| --- |
| Professional spray painting, near-industrial setting<br>Use in coatings - Basecoat |

**Uses advised against**

Not applicable.

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

Valspar b.v.
Zuiveringweg 89
8243 PE Lelystad
The Netherlands
tel: +31 (0)320 292200

**e-mail address of person responsible for this SDS** : msds@valspar.com

**National contact**

Sherwin-Williams UK Limited
Avenue One Station Lane, Witney, United Kingdom
Oxfordshire OX28 4XR

### 1.4 Emergency telephone number

**National advisory body/Poison Centre**

**Telephone number** : UK: 0-800-014-8126
CALL: +(44)-870-8200418 (Hours of operation - 24 hours)

**Supplier**

**Telephone number** : Call: +31 (0)320 292200 (8:30AM - 5PM)

## 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

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.

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

### 2.2 Label elements

**Hazard pictograms** :

**Signal word** : Warning

## SECTION 2: Hazards identification

**Hazard statements** : May cause an allergic skin reaction.

**Precautionary statements**

**Prevention** : Wear protective gloves. Avoid breathing vapour or spray.

**Response** : Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.

**Storage** : Not applicable.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements** : 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.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

| Product/ingredient name | Identifiers | % | Classification | Type |
|---|---|---|---|---|
| 2-butoxyethanol | REACH #: 01-2119475108-36<br>EC: 203-905-0<br>CAS: 111-76-2<br>Index: 603-014-00-0 | <10 | Acute Tox. 4, H302<br>Acute Tox. 3, H331<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319 | [1] [2] |
| (2-methoxymethylethoxy)propanol | REACH #: 01-2119450011-60<br>EC: 252-104-2<br>CAS: 34590-94-8 | ≤1 | Not classified. | [2] |
| 2,4,7,9-tetramethyldec-5-yne-4,7-diol | REACH #: 01-2119954390-39<br>EC: 204-809-1<br>CAS: 126-86-3 | ≤0.3 | Eye Dam. 1, H318<br>Skin Sens. 1B, H317<br>Aquatic Chronic 3, H412 | [1] |
| 3(2H)-Isothiazolone, 2-methyl- | REACH #: 01-2120764690-50<br>EC: 220-239-6<br>CAS: 2682-20-4 | <0.01 | Acute Tox. 3, H301<br>Acute Tox. 3, H311<br>Acute Tox. 2, H330<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=1)<br>EUH071 | [1] |
| methanol | EC: 200-659-6<br>CAS: 67-56-1 | <0.1 | Flam. Liq. 2, H225<br>Acute Tox. 3, H301 | [1] [2] |

## SECTION 3: Composition/information on ingredients

| | | | | |
|---|---|---|---|---|
| | Index: 603-001-00-X | | Acute Tox. 3, H311<br>Acute Tox. 3, H331<br>STOT SE 1, H370<br>**See Section 16 for the full text of the H statements declared above.** | |

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

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit

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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**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

## SECTION 4: First aid measures

**Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**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.

**Hazardous combustion products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
halogenated compounds

### 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.

## 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).

### 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. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 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. 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 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 |
|---|---|
| 2-butoxyethanol | **EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.**<br>STEL: 50 ppm 15 minutes.<br>TWA: 25 ppm 8 hours.<br>STEL: 246 mg/m³ 15 minutes.<br>TWA: 123 mg/m³ 8 hours. |
| (2-methoxymethylethoxy)propanol | **EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.**<br>TWA: 308 mg/m³ 8 hours.<br>TWA: 50 ppm 8 hours. |
| methanol | **EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.**<br>STEL: 333 mg/m³ 15 minutes.<br>STEL: 250 ppm 15 minutes.<br>TWA: 266 mg/m³ 8 hours.<br>TWA: 200 ppm 8 hours. |

**Recommended monitoring procedures** : Reference should be made to appropriate monitoring standards. 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 |
|---|---|---|---|---|---|
| 2-butoxyethanol | DNEL | Long term Oral | 6.3 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Oral | 26.7 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 59 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 98 mg/m³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 147 mg/m³ | General population | Local |
| | DNEL | Short term Inhalation | 246 mg/m³ | Workers | Local |
| | DNEL | Short term Inhalation | 426 mg/m³ | General population | Systemic |
| | DNEL | Short term Inhalation | 1091 mg/m³ | Workers | Systemic |
| (2-methoxymethylethoxy)propanol | DNEL | Long term Oral | 36 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Oral | 36 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 37.2 mg/m³ | General population | Systemic |
| | DNEL | Long term Dermal | 121 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 283 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 308 mg/m³ | Workers | Systemic |
| 2,4,7,9-tetramethyldec-5-yne-4,7-diol | DNEL | Long term Oral | 0.25 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.25 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 0.43 mg/m³ | General population | Systemic |
| | DNEL | Long term Dermal | 0.5 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Oral | 0.75 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Dermal | 0.75 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Inhalation | 1.29 mg/m³ | General population | Systemic |
| | DNEL | Short term Dermal | 1.5 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 1.76 mg/m³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 5.28 mg/m³ | Workers | Systemic |
| 3(2H)-Isothiazolone, 2-methyl- | DNEL | Long term Inhalation | 0.021 mg/m³ | Workers | Local |
| | DNEL | Short term Inhalation | 0.043 mg/m³ | Workers | Local |
| | DNEL | Long term Inhalation | 0.021 mg/m³ | General population [Consumers] | Local |
| | DNEL | Short term Inhalation | 0.043 mg/m³ | General population [Consumers] | Local |
| | DNEL | Long term Oral | 0.027 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Short term Oral | 0.053 mg/ | General | Systemic |

## SECTION 8: Exposure controls/personal protection

| | | | | | |
|---|---|---|---|---|---|
| | | | kg bw/day | population [Consumers] | |
| methanol | DNEL | Long term Inhalation | 26 mg/m³ | General population [Consumers] | Local |
| | DNEL | Long term Oral | 4 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Short term Oral | 4 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Short term Oral | 4 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Oral | 4 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Dermal | 4 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 4 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Dermal | 20 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Dermal | 20 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 26 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 26 mg/m³ | General population | Local |
| | DNEL | Short term Inhalation | 26 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 26 mg/m³ | General population | Systemic |
| | DNEL | Short term Inhalation | 130 mg/m³ | Workers | Local |
| | DNEL | Long term Inhalation | 130 mg/m³ | Workers | Local |
| | DNEL | Short term Inhalation | 130 mg/m³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 130 mg/m³ | Workers | Systemic |

**PNECs**

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|---|---|---|---|
| 2-butoxyethanol | Fresh water | 8.8 mg/l | - |
| | Marine water | 0.88 mg/l | - |
| | Sewage Treatment Plant | 463 mg/l | - |
| | Fresh water sediment | 34.6 mg/kg dwt | - |
| | Marine water sediment | 3.46 mg/kg dwt | - |
| | Soil | 2.33 mg/kg dwt | - |
| | Secondary Poisoning | 20 mg/kg | - |
| (2-methoxymethylethoxy)propanol | Fresh water | 19 mg/l | Assessment Factors |
| | Marine water | 1.9 mg/l | Assessment Factors |
| | Sewage Treatment Plant | 4168 mg/l | Assessment Factors |
| | Fresh water sediment | 70.2 mg/kg dwt | Equilibrium Partitioning |
| | Marine water sediment | 7.02 mg/kg dwt | Equilibrium Partitioning |
| | Soil | 2.74 mg/kg dwt | Equilibrium Partitioning |
| 2,4,7,9-tetramethyldec-5-yne-4,7-diol | Fresh water | 0.04 mg/l | - |
| | Marine water | 0.004 mg/l | - |
| | Sewage Treatment Plant | 7 mg/l | - |
| | Fresh water sediment | 0.32 mg/kg dwt | - |
| | Marine water sediment | 0.032 mg/kg dwt | - |
| | Soil | 0.028 mg/kg dwt | - |

## SECTION 8: Exposure controls/personal protection

| | | | |
|---|---|---|---|
| 3(2H)-Isothiazolone, 2-methyl- | Fresh water | 3.39 µg/l | Assessment Factors |
| | Marine water | 3.39 µg/l | Assessment Factors |
| | Sewage Treatment Plant | 0.23 mg/l | Assessment Factors |
| | Soil | 0.047 mg/kg dwt | Assessment Factors |
| methanol | Fresh water | 20.8 mg/l | Assessment Factors |
| | Marine water | 2.08 mg/l | Assessment Factors |
| | Sewage Treatment Plant | 100 mg/l | Assessment Factors |
| | Fresh water sediment | 77 mg/kg dwt | Equilibrium Partitioning |
| | Marine water sediment | 7.7 mg/kg dwt | Equilibrium Partitioning |
| | Soil | 100 mg/kg dwt | Assessment Factors |

### 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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: chemical splash goggles and/or face shield.

**Skin protection**

**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): Recommended EN 374 foil butyl rubber fluor rubber >= 0.7 mm
< 1 hour (breakthrough time): Conditionally suitable materials for protective gloves; EN 374: Nitrile rubber - NBR (>= 0.35 mm). Only suitable as splash protection. Only suitable for brief exposure. In the event of contamination, change protective gloves immediately.

**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: Cotton or cotton/synthetic overalls or coveralls are normally suitable.

**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: EN 405:2001 + A1:2009 organic vapour (Type A) and particulate filter FFA2P3 R D

**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

**Appearance**

**Physical state** : Liquid.

**Colour** : Red.

**Odour** : Characteristic.

**Odour threshold** : Not available.

**Melting point/freezing point** : Not applicable.

**Initial boiling point and boiling range** : 100°C (212°F)

**Flammability (solid, gas)** : Not available.

**Upper/lower flammability or explosive limits** : Lower: 1.1%
Upper: 10.6%

**Flash point** : Closed cup: >93.3°C (>199.9°F)

**Auto-ignition temperature** : 230°C (446°F)

**Decomposition temperature** : Not applicable.

**pH** : 7.9 to 8.1 [Conc. (% w/w): 100%]

**Viscosity** : Kinematic (40°C): >20.5 $mm^2/s$

**Solubility(ies)** :

| Media | Result |
|---|---|
| cold water<br>hot water | Soluble<br>Easily soluble |

**Solubility in water** : Not applicable.

**Miscible with water** : Yes.

**Partition coefficient: n-octanol/water** : Not applicable.

**Vapour pressure** : 2.3 kPa (17.5 mm Hg)

**Evaporation rate** : 89 (butyl acetate = 1)

**Relative density** : 1.017

**Density** : 1.017 $g/cm^3$

**Vapour density** : 1 [Air = 1]

**Explosive properties** : Not available.

**Oxidising properties** : Not available.

**Particle characteristics**

**Median particle size** : Not applicable.

### 9.2 Other information

**Heat of combustion** : 2.472 kJ/g

## 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.

## SECTION 10: Stability and reactivity

**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 |
|---|---|---|---|---|
| 2-butoxyethanol | LC50 Inhalation Gas. | Rat | 450 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 220 mg/kg | - |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | 250 mg/kg | - |
| 2,4,7,9-tetramethyldec-5-yne-4,7-diol | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| | LD50 Oral | Rat | >1860 mg/kg | - |
| 3(2H)-Isothiazolone, 2-methyl- | LD50 Oral | Rat | 2131 mg/kg | - |
| methanol | LC50 Inhalation Gas. | Rat | 145000 ppm | 1 hours |
| | LC50 Inhalation Gas. | Rat | 64000 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 15800 mg/kg | - |
| | LD50 Oral | Rat | 5600 mg/kg | - |

**Conclusion/Summary** : Not available.

**Acute toxicity estimates**

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|---|---|---|---|---|
| MM 938 WaterBase 900+ Series Red | 16832.1 | N/A | N/A | 42.1 | N/A |
| 2-butoxyethanol | 1200 | N/A | N/A | 3 | N/A |
| 3(2H)-Isothiazolone, 2-methyl- | 100 | 300 | N/A | 0.5 | N/A |
| methanol | 100 | 300 | 64000 | 3 | N/A |

**Irritation/Corrosion**

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---|---|---|---|---|
| 2-butoxyethanol | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 mg | - |
| | Eyes - Severe irritant | Rabbit | - | 100 mg | - |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |
| (2-methoxymethylethoxy) propanol | Eyes - Mild irritant | Human | - | 8 mg | - |
| | Eyes - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |
| 2,4,7,9-tetramethyldec-5-yne-4,7-diol | Eyes - Severe irritant | Rabbit | - | 0.1 Ml | - |
| | Skin - Mild irritant | Rabbit | - | 0.5 gm | - |
| methanol | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 mg | - |
| | Eyes - Moderate irritant | Rabbit | - | 40 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 mg | - |

**Conclusion/Summary** : Not available.

**Sensitisation**

**Conclusion/Summary** : Not available.

**Mutagenicity**

**Conclusion/Summary** : Not available.

**Carcinogenicity**

**Conclusion/Summary** : Not available.

**Reproductive toxicity**

## SECTION 11: Toxicological information

**Conclusion/Summary** : Not available.

**Teratogenicity**

**Conclusion/Summary** : Not available.

**Specific target organ toxicity (single exposure)**

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|---|---|---|
| methanol | Category 1 | - | - |

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Information on likely routes of exposure** : Not available.

**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** : Not available.

**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 |
|---|---|---|---|
| 2-butoxyethanol | Acute EC50 911 mg/l | Algae - *Pseudokrichneriella subcapitata* | 72 hours |
| | Acute EC50 1550 mg/l | Daphnia - *Daphnia magna* | 48 hours |
| | Acute LC50 800000 µg/l Marine water | Crustaceans - Common shrimp, sand shrimp - *Crangon crangon* | 48 hours |
| | Acute LC50 1250 ppm Marine water | Fish - Inland silverside - *Menidia beryllina* | 96 hours |
| | Chronic NOEC 100 mg/l | Daphnia - *Daphnia magna* | 21 days |
| | Chronic NOEC >100 mg/l | Fish - *Brachydanio rerio* | 21 days |
| (2-methoxymethylethoxy) propanol | Acute EC50 >1000 mg/l | Daphnia | 48 hours |
| | Acute LC50 >1000 mg/l | Fish | 96 hours |
| 2,4,7,9-tetramethyldec-5-yne-4,7-diol | Acute EC50 82 mg/l | Algae - *Selenastrum capricornutum* | 72 hours |
| | Acute EC50 91 mg/l | Daphnia - *Daphnia magna* | 48 hours |
| | Acute LC50 36 mg/l | Fish - *Elrits Pimephales* | 96 hours |
| 3(2H)-Isothiazolone, 2-methyl- | Acute EC50 0.157 mg/l | Algae - *pseudokirchneriella subcapitata* | 72 hours |
| | Acute EC50 1.68 mg/l | Daphnia | 48 hours |
| | Acute LC50 6 mg/l | Fish | 96 hours |
| | Chronic NOEC 0.03 mg/l | Algae - *pseudokirchneriella subcapitata* | 72 hours |
| | Chronic NOEC 0.55 mg/l | Daphnia | 21 days |
| | Chronic NOEC 2.38 mg/l | Fish | 28 days |
| methanol | Acute EC50 16.912 mg/l Marine water | Algae - Green algae - *Ulva pertusa* | 96 hours |
| | Acute LC50 2500000 µg/l Marine water | Crustaceans - Common shrimp, sand shrimp - *Crangon crangon* - Adult | 48 hours |
| | Acute LC50 3289 mg/l Fresh water | Daphnia - Water flea - *Daphnia magna* - Neonate | 48 hours |
| | Acute LC50 290 mg/l Fresh water | Fish - Zebra danio - *Danio rerio* - Egg | 96 hours |
| | Chronic NOEC 9.96 mg/l Marine water | Algae - Green algae - *Ulva pertusa* | 96 hours |

**Conclusion/Summary** : Not available.

## 12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---|---|---|---|---|
| 2-butoxyethanol | - | 90.4 % - Readily - 28 days | - | - |

**Conclusion/Summary** : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|---|---|---|
| 2-butoxyethanol | - | - | Readily |

## 12.3 Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| 2-butoxyethanol | 0.81 | - | Low |
| (2-methoxymethylethoxy) propanol | 0.004 | - | Low |
| methanol | -0.77 | <10 | Low |

## 12.4 Mobility in soil

**Soil/water partition coefficient ($K_{OC}$)** : Not available.

## SECTION 12: Ecological information

**Mobility** : Not available.

### 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. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 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** : The classification of the product may meet the criteria for a hazardous waste.

**Packaging**

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**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** | 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.

**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.

##### Substances of very high concern

None of the components are listed.

#### Ozone depleting substances

Not listed.

#### Prior Informed Consent (PIC)

Not listed.

#### Persistent Organic Pollutants

Not listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

### 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

#### 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.

### Inventory list

**Australia** : At least one component is not listed.

**Canada** : All components are listed or exempted.

**China** : All components are listed or exempted.

**Eurasian Economic Union** : **Russian Federation inventory**: Not determined.

**Japan** : **Japan inventory (CSCL)**: At least one component is not listed.
**Japan inventory (ISHL)**: Not determined.

**New Zealand** : All components are listed or exempted.

## SECTION 15: Regulatory information

**Philippines** : Not determined.

**Republic of Korea** : All components are listed, exempted, or notified.

**Taiwan** : Not determined.

**Thailand** : Not determined.

**Turkey** : Not determined.

**United States** : Not determined.

**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 |

**Full text of abbreviated H statements**

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| 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. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H331 | Toxic if inhaled. |
| H370 | Causes damage to organs. |
| 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. |
| 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 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Flam. Liq. 2 | FLAMMABLE LIQUIDS - Category 2 |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |

## SECTION 16: Other information

| | |
|---|---|
| Skin Sens. 1A | SKIN SENSITISATION - Category 1A |
| Skin Sens. 1B | SKIN SENSITISATION - Category 1B |
| STOT SE 1 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1 |

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**Notice to reader**

**To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.**
**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.**

# SUMI
# Safe Use of Mixtures
# Information for end-users

**Title** : Professional spray painting, near-industrial setting

*This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.*

## General description of the process covered

Indoor spray painting by professionals with efficient ventilation such as spray booth or local exhaust ventilation

## Operational conditions

**Place of use** : Indoor use

## Risk management measures (RMM)

| Contributing activity | Process category (ies) | Maximum duration | Ventilation | |
|---|---|---|---|---|
| | | | Type | ach (air changes per hour) |
| Preparation of material for application | PROC05 | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 |
| Loading of application equipment and handling of coated parts before curing | PROC08a | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 |
| Professional application of coatings and inks by spraying | PROC11 | More than 4 hours | Local exhaust ventilation | Refer to relevant technical standards |
| Film formation - force drying, stoving and other technologies | PROC04 | More than 4 hours | Enhanced (mechanical) room ventilation | Refer to relevant technical standards |
| Cleaning | PROC05 | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 |
| Waste management | PROC08a | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 |

| Contributing activity | Process category (ies) | Respiratory | Eye | Hands |
|---|---|---|---|---|
| Preparation of material for application | PROC05 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Loading of application equipment and handling of coated parts before curing | PROC08a | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Professional application of coatings and inks by spraying | PROC11 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Film formation - force drying, stoving and other technologies | PROC04 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | None | None |
| Cleaning | PROC05 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Waste management | PROC08a | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |

See chapter 8 of this Safety Data Sheet for specifications.

## Disclaimer

The information in this Safe Use of Mixture Information sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the SDS and the label of the product.
No liability is accepted for any damage, no matter of what kind, which is direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.