

Product Toilet Maintainer  
 Revision date 17 November 2020  
 Revision 3



**Safety Data Sheet (SDS)**  
 according to Regulation (EC) No. 1907/2006

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

<b>Product name</b>	<b>Toilet Maintainer</b>
<b>Product no.</b>	<b>TCDMAINT</b>
<b>Other means of identification</b>	No information available.

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

<b>Identified uses</b>	Cleaning agent. Product is for professional use only.
<b>Uses advised against</b>	Any other purpose.

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

<b>Supplier</b>	Manepa Hygienics 628B Jordanstown Avenue Greenogue Business Park Rathcoole Co. Dublin Tel: 014677600
<b>Contact person</b>	support@manepa.com

**1.4 Emergency telephone number**

<b>Emergency telephone</b>	Emergency Telephone Number: 086 0272033 08:30 – 17:00 Monday to Thursday 08:30 – 16:30 Friday
----------------------------	---

**Section 2: Hazards identification**

**2.1 Classification of the substance or mixture**

<b>Classification (EC 1272/2008)</b>	
Physical and chemical hazards	Not classified
Human health	Not classified
Environment	Not classified

**2.2 Label elements**

<b>Contains</b>	Not applicable
<b>Detergent labeling</b>	<5% anionic surfactants
<b>Label in accordance with (EC) no. 1272/2008</b>	No pictogram required
<b>Signal word</b>	No Signal Word
<b>Hazard statements</b>	No hazard statements required
<b>Precautionary statements</b>	No precautionary statements required

**2.3 Other hazards**

None known.

**Section 3: Composition/identification of ingredients****3.1 Substance**

Not applicable.

**3.2 Mixtures**

Name	Product identifier	Regulation (EC) No 1272/2008	%
Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	CAS-No.: 68891-38-3 EC No.: 500-234-8 REACH Reg No.: 01-2119488639-16-XXXX	Skin Irrit.2 - H315, Eye Dam. 1 - H318, Aquatic Chronic 3 - H412	1-5%
citral	CAS-No.: 5392-40-5 EC No.: 226-394-6 REACH Reg No.: 01-2119462829-23-XXXX	Skin Irrit.2 - H315, Eye Irrit.2A - H319, Skin. Sens 1 B- H317	<0.1%
propan-2-ol	CAS-No.: 67-63-0 EC No.: 200-661-7	Flam. Liq 2- H225, Eye Irrit.2A - H319, STOT SE 3 - H336	<0.1%
diethyl phthalate	CAS-No.: 84-66-2 EC No.: 201-550-6		<0.1%

The full text for all hazard statements are displayed in section 16.

**Composition comments**

The data shown are in accordance with the latest EC Directives.

**Section 4: First aid measures****4.1 Description of first aid measures**

<b>General information</b>	Provide general first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during rescue.
<b>Inhalation</b>	Move the exposed person to fresh air at once. Get medical attention if any discomfort continues. If breathing is difficult, provide oxygen. If not breathing, give artificial respiration and get medical attention.
<b>Ingestion</b>	Do not induce vomiting. Thoroughly rinse the mouth with water. If vomiting occurs, keep head low so that stomach content doesn't enter the lungs. Get medical attention if discomfort occurs. Never give anything by mouth to an unconscious person.
<b>Skin contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with water. Get medical attention if irritation develops or persists.
<b>Eye contact</b>	Avoid contaminating unaffected eye. Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Remove contact lenses if present and easy to do so. Get prompt medical attention.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	No specific symptoms noted.
<b>Ingestion</b>	Prolonged exposure to product may cause irritation to lining of the mouth.
<b>Skin contact</b>	Prolonged or repeated contact may be irritating to the skin.
<b>Eye contact</b>	May cause temporary eye irritation.

**4.3 Indication of any immediate medical attention and special treatment needed**

<b>Notes to the physician</b>	Treat symptomatically.
-------------------------------	------------------------

**Section 5: Fire-fighting measures****5.1 Extinguishing media**

<b>Extinguishing media</b>	Use fire-extinguishing media appropriate for surrounding materials.
<b>Unsuitable extinguishing media</b>	High volume water jet.

**5.2 Special hazards arising from the substance or mixture**

<b>Hazardous combustion products</b>	When heated, vapours/gases hazardous to health may be formed.
<b>Unusual fire &amp; explosion hazards</b>	No unusual fire or explosion hazards noted.
<b>Specific hazards</b>	No specific hazards are identified for the product.

**5.3 Advice for firefighters**

<b>Special fire fighting procedures</b>	Ventilate closed spaces before entering them. If possible, fight fire from protected position. Keep up-wind to avoid fumes. Water spray should be used to cool containers.
<b>Protective equipment for firefighters</b>	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 European standard EN 469 will provide a basic level of protection for chemical incidents.

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

<b>For non-emergency personnel</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Eliminate all sources of ignition. Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Do not touch or walk through spilled material. Wash hands after use.
<b>For emergency responders</b>	Follow safe handling advice and personal protective equipment recommendations for normal use of product.

**6.2 Environmental precautions**

<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided.
----------------------------------	---

**6.3 Methods and material for containment and cleaning up**

<b>Spill clean up methods</b>	Stop leak if possible without risk. Absorb spillage with non-combustible, absorbent material - sand. In case of a large scale of spill, dyke area with sand to stop the spill spreading. Flush with plenty of water to clean spillage area. Floors may become slippery, avoid falls. Place waste material into suitable labelled sealed containers for disposal.
-------------------------------	--

**6.4 Reference to other sections**

<b>Reference to other sections</b>	See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.
------------------------------------	--

**Section 7: Handling and storage****7.1 Precautions for safe handling**

<b>Handling</b>	Use proper personal protection when handling (refer to Section 8). Avoid spilling, skin and eye contact. Avoid inhalation of vapours. Read and follow manufacturer's recommendations. Keep away from heat, sparks and open flame. Do not mix with other chemicals. When using, do not eat, drink or smoke. Wash thoroughly after handling.
-----------------	--

**7.2 Conditions for safe storage, including any incompatibilities**

<b>Storage precautions</b>	Keep upright, locked up and out of reach of children. Keep away from heat, sparks and open flame. Store in tightly closed original container in a dry, cool and well-ventilated place.
<b>Storage class</b>	Unspecified storage.

**7.3 Specific end use(s)**

<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.2.
<b>Usage description</b>	Use only according to directions. Replace and tighten cap after use.

**Section 8: Exposure controls/Personal protection**

## 8.1 Control parameters

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
<b>citral</b>	OEL	5 (IFV) ppm				
<b>propan-2-ol</b>	OEL	200 ppm		400 ppm		Sk
<b>propan-2-ol</b>	WEL	400 ppm	999 mg/m <sup>3</sup>	500 ppm	1250 mg/m <sup>3</sup>	
<b>diethyl phthalate</b>	WEL		5 mg/m <sup>3</sup>		10 mg/m <sup>3</sup>	

### Ingredient comments

Ireland, Occupational Exposure Limits 2020.  
WEL - Workplace Exposure Limits - EH40/2005 Workplace exposure limits.

## 8.2 Exposure Controls

### Protective equipment



### Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

### Respiratory equipment

Not normally required when used at normal temperatures. Use respiratory protection as specified by an industrial hygienist or other qualified professional if concentrations exceed the limits listed in Section 8. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator and suitable respirator cartridges (Type: ABEK. EN 14387) as a backup to engineering controls.

If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as CEN (EU). Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### Hand protection

Where hand contact with the product may occur use gloves approved to relevant standards (e.g. Europe: EN374.) EU Directive 89/686/EEC. Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. Gloves must be inspected prior to use.

Suggested material: Nitrile rubber. Minimum layer thickness: 0.4mm. Breakthrough time: >480 minutes. Consult manufacturer for specific advice. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

### Eye protection

Wear safety goggles/face shield to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

### Other protection

Protective clothing not required for normal use of the product. Select appropriate protective clothing based on chemical resistance data and an assessment of local exposure potential. 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. The selected clothing must satisfy the European norm standard EN 943.

### Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated.

### Process conditions

Ensure that eye flushing systems and safety showers are located close by in the work place.

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Clear liquid.
<b>Colour</b>	Blue/Turquoise
<b>Odour</b>	Characteristic.
<b>Odour threshold - lower</b>	No information available as testing has not been completed.
<b>Odour threshold - upper</b>	No information available as testing has not been completed.
<b>pH-Value, Conc. Solution</b>	7 - 9
<b>pH-Value, Diluted solution</b>	Not applicable as the product is a concentrated solution.

<b>Melting point</b>	No information available as testing has not been completed.
<b>Initial boiling point and boiling range</b>	No information available as testing has not been completed.
<b>Flash point</b>	Non-Flammable
<b>Evaporation rate</b>	No information available as testing has not been completed.
<b>Flammability state</b>	Not applicable as the product is Non-Flammable.
<b>Flammability limit - lower(%)</b>	Not applicable as the product is Non-Flammable.
<b>Flammability limit - upper(%)</b>	Not applicable as the product is Non-Flammable.
<b>Vapour pressure</b>	No information available as testing has not been completed.
<b>Vapour density (air=1)</b>	No information available as testing has not been completed.
<b>Relative density</b>	1.00 - 1.01 kg/l (at 20°C)
<b>Bulk density</b>	Not applicable as the product is a liquid.
<b>Solubility</b>	Soluble in water.
<b>Decomposition temperature</b>	No information available as testing has not been completed.
<b>Partition coefficient; n- Octanol/Water</b>	No information available as testing has not been completed.
<b>Auto ignition temperature (°C)</b>	Not applicable as the product is Non-Flammable.
<b>Viscosity</b>	No information available as testing has not been completed.
<b>Explosive properties</b>	Not classified as explosive.
<b>Oxidising properties</b>	The product does not meet the criteria to be classified as oxidising.

## **9.2 Other information**

<b>Molecular weight</b>	Not applicable as the product is a mixture.
<b>Volatile organic compound</b>	No information available as testing has not been completed.
<b>Other information</b>	None noted.

---

## **Section 10: Stability and reactivity**

---

### **10.1 Reactivity**

<b>Reactivity</b>	Reactions may occur with strong oxidising agents.
-------------------	---

### **10.2 Chemical stability**

<b>Stability</b>	Stable under normal temperature conditions and recommended use.
------------------	---

### **10.3 Possibility of hazardous reactions**

<b>Hazardous reactions</b>	For information on hazardous reaction see section 10.1.
<b>Hazardous polymerisation</b>	Not relevant.
<b>Polymerisation description</b>	No information available.

### **10.4 Conditions to Avoid**

<b>Conditions to avoid</b>	Heat, sparks, open flames, temperature extremes and direct sunlight.
----------------------------	--

### **10.5 Incompatible materials**

**Materials to avoid** Avoid contact with oxidising agents, strong alkalis, and strong acids.

## 10.6 Hazardous decomposition products

**Hazardous decomposition products** If heated, harmful vapours may be formed.

## Section 11: Toxicological information

### 11.1 Information on toxicological effects

<b>Toxicological information</b>	No toxicological information for the overall finished product.
<b>Acute toxicity (Oral LD50)</b>	No information available as testing has not been completed.
<b>Acute toxicity (Dermal LD50)</b>	No information available as testing has not been completed.
<b>Acute toxicity (Inhalation LD50)</b>	No information available as testing has not been completed.
<b>Serious eye damage/irritation</b>	None to slight.
<b>Skin corrosion/irritation</b>	The product is not classified as a skin corrosion/irritation hazard.
<b>Respiratory sensitisation</b>	The product is not classified as a respiratory hazard.
<b>Skin sensitisation</b>	The product is not classified as a skin sensitisation hazard.
<b>Germ cell mutagenicity</b>	The product is not classified as a mutagen.
<b>Carcinogenicity</b>	The product is not classified as a carcinogen hazard.
<b>Specific target organ toxicity - Single exposure:</b>	
<b>STOT - Single exposure</b>	The product is not classified as a single exposure specific target organ toxin.
<b>Specific target organ toxicity - Repeated exposure:</b>	
<b>STOT - Repeated exposure</b>	The product is not classified as a repeat exposure specific target organ toxin.
<b>Inhalation</b>	No specific symptoms noted.
<b>Ingestion</b>	Prolonged exposure to product may cause irritation to lining of the mouth.
<b>Skin contact</b>	Prolonged or repeated contact may be irritating to the skin.
<b>Eye contact</b>	May cause temporary eye irritation.
<b>Waste management</b>	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
<b>Routes of entry</b>	Eyes, skin, ingestion or inhalation.
<b>Target organs</b>	Blood. Eyes. Liver. Respiratory system. Skin. Kidneys. Digestive system.
<b>Aspiration hazards:</b>	The product is not classified as an aspiration hazard.
<b>Reproductive toxicity:</b>	The product is not classified as a reproductive hazard.

Name	LD50 oral	LD50 dermal	LD50 inhalation
propan-2-ol	5840.00mg/kg Rat	13900.00mg/kg Rabbit	
Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	>5000.00mg/kg Rat	>5000.00mg/kg Rat	

## Section 12: Ecological information

### 12.1 Toxicity

<b>Acute toxicity - Fish</b>	No information available as testing has not been completed.
<b>Acute toxicity - Aquatic invertebrates</b>	No information available as testing has not been completed.
<b>Acute toxicity - Aquatic plants</b>	No information available as testing has not been completed.
<b>Acute toxicity - Microorganisms</b>	No information available as testing has not been completed.
<b>Chronic toxicity - Fish</b>	No information available as testing has not been completed.
<b>Chronic toxicity - Aquatic invertebrates</b>	No information available as testing has not been completed.
<b>Chronic toxicity - Aquatic plants</b>	No information available as testing has not been completed.
<b>Chronic toxicity - Microorganisms</b>	No information available as testing has not been completed.
<b>Ecotoxicity</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Eco toxicological information** Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.

### **12.2 Persistence and degradability**

**Degradability** The degradability of the product has not been stated.  
**Biological oxygen demand** No information available as testing has not been completed.  
**Chemical oxygen demand** No information available as testing has not been completed.

### **12.3 Bioaccumulative potential**

**Bioaccumulative potential** No data available on bioaccumulation.  
**Bioaccumulation factor** No information available as testing has not been completed.  
**Partition coefficient; n-Octanol/Water** No information available as testing has not been completed.

### **12.4 Mobility in soil**

**Mobility** Soluble in water.

### **12.5 Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** The product does not contain any PBT or vPvB Substances.

### **12.6 Other adverse effects**

**Other adverse effects** None known.

Name	Acute toxicity (Fish)	Acute toxicity (Aquatic invertebrates)	Acute toxicity (Aquatic plants)
propan-2-ol	LC50 10000.00ppm Freshwater Fish		
Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	LC50 >10.00mg/l Leuciscus idus (Golden Orfe)	EC50 >10.00mg/l Daphnia magna	EC50 >100.00mg/l Scenedesmus Subspicatus

## **Section 13: Disposal considerations**

**Waste management** When handling waste, consideration should be made to the safety precautions applying to handling of the product.

### **13.1 Waste treatment methods**

**Disposal methods** Dispose of waste and residues in accordance with local authority requirements.

## **Section 14: Transport information**

### **14.1 UN number**

**UN no. (ADR)** Not applicable.  
**UN no. (IMDG)** Not applicable.  
**UN no. (IATA)** Not applicable.

### **14.2 UN proper shipping name**

**ADR proper shipping name** Not applicable.  
**IMDG proper shipping name** Not applicable.  
**IATA proper shipping name** Not applicable.

### **14.3 Transport hazard class(es)**

**ADR class** Not applicable.  
**IMDG class** Not applicable.  
**IATA class** Not applicable.  
**Transport labels** Not applicable

**14.4 Packing group**

ADR/RID/ADN packing group	Not applicable.
IMDG packing group	Not applicable.
IATA packing group	Not applicable.

**14.5 Environmental hazards**

ADR	No
IMDG	No
IATA	No

**14.6 Special precautions for user**

EMS	Not applicable.
Emergency action code	Not applicable.
Hazard no. (ADR)	Not applicable.
Tunnel restriction code	Not applicable.

**14.7 Transport in bulk according to annex II of MARPOL73/78 and the IBC code**

Not applicable.

**Section 15: Regulatory information****15.1 Safety, health and environmental regulations/Legislation specific for the substance or mixture**

<b>EU legislation</b>	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 830/2015 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
<b>Approved code of practice</b>	Workplace Exposure Limits Guidance Note EH40/2005.  2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)
<b>Chemical safety assessment</b>	No chemical safety assessment has been carried out.

**Section 16: Other information**

<b>General information</b>	This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010.
<b>Revision comments</b>	This is a third issue. [2]Information updated. [3]Information updated. [4]Information updated. [5]Information updated. [7]Information updated. [8]Information updated. [9]Information updated. [10]Information updated. [11]Information updated. [12]Information updated. [15]Information updated.
<b>Revision date</b>	17 November 2020
<b>Supersedes date</b>	07 December 2017
<b>Revision</b>	3
<b>Safety data sheet status</b>	Approved.

**Hazard statements in full**

<b>H315</b>	Causes skin irritation.
<b>H318</b>	Causes serious eye damage.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>H226</b>	Flammable liquid and vapour.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H317</b>	May cause an allergic skin reaction.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H319</b>	Causes serious eye irritation.
<b>H225</b>	Highly flammable liquid and vapour.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>H361</b>	Suspected of damaging fertility or the unborn child .



<b>H302</b>	Harmful if swallowed.
<b>H400</b>	Very toxic to aquatic life.
<b>H413</b>	May cause long lasting harmful effects to aquatic life.

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.