



Deep Gloss Maintainer for Stainless Steel

Revision: 2019-01-09

Version: 01.0

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

1.1 Product identifier

Trade name: Deep Gloss Maintainer for Stainless Steel

1.2 Recommended use and restrictions on use

For professional and industrial use only.

1.3 Details of the supplier of the safety data sheet

Diversey (Malaysia) Sdn. Bhd.

Contact details

No. 6, Jalan Pengarah U1/29, Seksyen U1
Hicom Glenmarie Industrial Park
40150 Shah Alam
Selangor, Malaysia
Tel : +603-5569-6363
Fax: +603-5569-6262

1.4 Emergency telephone number

Tel : +603-5569-6363

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Aerosol 1 (H222)
Aquatic Chronic 3 (H412)

2.2 Label elements



Signal word: Danger.

Hazard statements:

H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

2.3 Other hazards

No other hazards known. Exposure and appropriate engineering controls are specified in subsection 8.2 exposure controls.

SECTION 3: Composition/information on ingredients

3.1 Substances / Mixtures

Ingredient(s)	CAS number	Classification	Weight
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			percent
white mineral oil (petroleum)	8042-47-5	Not classified as hazardous	10-20
distillates (petroleum), hydrotreated light	64742-47-8	Asp. Tox. 1 (H304) STOT SE 3 (H336) Aquatic Chronic 2 (H411)	10-20
butane	106-97-8	Flam. Gas 1 (H220)	10-20
propane	74-98-6	Flam. Gas 1 (H220)	3-10
Polyglycerol ester of oleic acid	9007-48-1	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	1-3

This preparation contains less than 12% Sodium hydroxide/Potassium hydroxide which exempts from Poison Act 1952.

Workplace exposure limit(s), if available, are listed in subsection 8.1.

For the full text of the H phrases mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation:	Get medical attention or advice if you feel unwell.
Skin contact:	Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.
Eye contact:	Rinse cautiously with water for several minutes. If irritation occurs and persists, get medical attention.
Ingestion:	Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.
Self-protection of first aider:	Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:	No known effects or symptoms in normal use.
Skin contact:	Direct contact can damage skin by freezing.
Eye contact:	Direct contact can damage the eye by freezing.
Ingestion:	No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Carbon dioxide. Dry powder. Sand. Alcohol-resistant foam. Do not use water.

5.2 Special hazards arising from the substance or mixture

Cool endangered packaging with water spray jet.

5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

6.2 Environmental precautions

No special environmental precautions required. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Absorb liquid components with liquid-binding material.

6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire and explosions:

Keep away from heat. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50° C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

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Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Handle and open container with care. Do not mix with other products unless advised by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Use personal protective equipment as required. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. Keep away from heat and direct sunlight.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

Ingredient(s)	Long term value(s)	Ceiling value(s)
white mineral oil (petroleum)	5 mg/m ³	
butane	800 ppm 1900 mg/m ³	
propane	2500 ppm	

Biological limit values, if available:

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

Appropriate engineering controls: Use only in well ventilated areas.
Appropriate organisational controls: No special requirements under normal use conditions.

Personal protective equipment

Eye / face protection: No special requirements under normal use conditions.
Hand protection: No special requirements under normal use conditions.
Body protection: No special requirements under normal use conditions.
Respiratory protection: Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

Environmental exposure controls: No special requirements under normal use conditions.

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

	Method / remark
Physical State: Liquid Aerosol	
Colour: Milky, White	
Odour: Product specific Solvent	
Odour threshold: Not applicable	
pH: ≈ 6 (neat)	ISO 4316
Melting point/freezing point (°C): Not determined	Not relevant to classification of this product
Initial boiling point and boiling range (°C): Not determined	Not applicable as product is an aerosol
Flammability (liquid): Not flammable.	
Flash point (°C): Not applicable as product is an aerosol	
Sustained combustion: Not applicable. (UN Manual of Tests and Criteria, section 32, L.2)	
Evaporation rate: Not determined	Not relevant to classification of this product
Flammability (solid, gas): Not applicable to liquids	
Upper/lower flammability limit (%): Not determined	
Vapour pressure: Not determined	
Vapour density: Not determined	Not relevant to classification of this product
Relative density: ≈ 0.96 (20 °C)	OECD 109 (EU A.3)
Solubility in / Miscibility with Water: Not miscible or difficult to mix	
Partition coefficient: n-octanol/water No information available.	

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Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Autoignition temperature: Not determined

Decomposition temperature: Not applicable.

Viscosity: ≈ 4500 mPa.s (20 °C)

Explosive properties: Not explosive. Vapours may form explosive mixtures with air.

Oxidising properties: Not oxidising

9.2 Other information

Surface tension (N/m): Not determined

Corrosion to metals: Not corrosive

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

None known under normal use conditions.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data:

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >5000

Substance data, where relevant and available, are listed below:

Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
white mineral oil (petroleum)	LD ₅₀	> 5000	Rat	OECD 401 (EU B.1)	
distillates (petroleum), hydrotreated light		No data available			
butane		No data available			
propane		No data available			
Polyglycerol ester of oleic acid		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
white mineral oil (petroleum)	LD ₅₀	> 2000	Rabbit	OECD 402 (EU B.3)	
distillates (petroleum), hydrotreated light		No data available			
butane		No data available			
propane		No data available			
Polyglycerol ester of oleic acid		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
white mineral oil (petroleum)	LC ₅₀	> 5	Rat	OECD 403 (EU B.2)	4

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distillates (petroleum), hydrotreated light		No data available			
butane		No data available			
propane		No data available			
Polyglycerol ester of oleic acid		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
white mineral oil (petroleum)	No data available			
distillates (petroleum), hydrotreated light	No data available			
butane	No data available			
propane	No data available			
Polyglycerol ester of oleic acid	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
white mineral oil (petroleum)	No data available			
distillates (petroleum), hydrotreated light	No data available			
butane	No data available			
propane	No data available			
Polyglycerol ester of oleic acid	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
white mineral oil (petroleum)	No data available			
distillates (petroleum), hydrotreated light	No data available			
butane	No data available			
propane	No data available			
Polyglycerol ester of oleic acid	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
white mineral oil (petroleum)	No data available			
distillates (petroleum), hydrotreated light	No data available			
butane	No data available			
propane	No data available			
Polyglycerol ester of oleic acid	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
white mineral oil (petroleum)	No data available			
distillates (petroleum), hydrotreated light	No data available			
butane	No data available			
propane	No data available			
Polyglycerol ester of oleic acid	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
white mineral oil (petroleum)	No data available		No data available	
distillates (petroleum), hydrotreated light	No data available		No data available	
butane	No data available		No data available	
propane	No data available		No data available	
Polyglycerol ester of oleic acid	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
white mineral oil (petroleum)	No data available
distillates (petroleum), hydrotreated light	No data available
butane	No data available
propane	No data available
Polyglycerol ester of oleic acid	No data available

Toxicity for reproduction

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Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
white mineral oil (petroleum)			No data available				
distillates (petroleum), hydrotreated light			No data available				
butane			No data available				
propane			No data available				
Polyglycerol ester of oleic acid			No data available				

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
white mineral oil (petroleum)		No data available				
distillates (petroleum), hydrotreated light		No data available				
butane		No data available				
propane		No data available				
Polyglycerol ester of oleic acid		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
white mineral oil (petroleum)		No data available				
distillates (petroleum), hydrotreated light		No data available				
butane		No data available				
propane		No data available				
Polyglycerol ester of oleic acid		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
white mineral oil (petroleum)		No data available				
distillates (petroleum), hydrotreated light		No data available				
butane		No data available				
propane		No data available				
Polyglycerol ester of oleic acid		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
white mineral oil (petroleum)			No data available					
distillates (petroleum), hydrotreated light			No data available					
butane			No data available					
propane			No data available					
Polyglycerol ester of oleic acid			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
white mineral oil (petroleum)	No data available
distillates (petroleum), hydrotreated light	No data available
butane	No data available
propane	No data available
Polyglycerol ester of oleic acid	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
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white mineral oil (petroleum)	No data available
distillates (petroleum), hydrotreated light	No data available
butane	No data available
propane	No data available
Polyglycerol ester of oleic acid	No data available

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

SECTION 12: Ecological information**12.1 Toxicity**

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
white mineral oil (petroleum)	LC ₅₀	> 100	<i>Oncorhynchus mykiss</i>	OECD 203 (EU C.1)	96
distillates (petroleum), hydrotreated light		No data available			
butane		No data available			
propane		No data available			
Polyglycerol ester of oleic acid		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
white mineral oil (petroleum)	EC ₅₀	> 100	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48
distillates (petroleum), hydrotreated light		No data available			
butane		No data available			
propane		No data available			
Polyglycerol ester of oleic acid		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
white mineral oil (petroleum)	E _r C ₅₀	> 100	<i>Pseudokirchneriella subcapitata</i>	OECD 201 (EU C.3)	72
distillates (petroleum), hydrotreated light		No data available			
butane		No data available			
propane		No data available			
Polyglycerol ester of oleic acid		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
white mineral oil (petroleum)		No data available			
distillates (petroleum), hydrotreated light		No data available			
butane		No data available			
propane		No data available			
Polyglycerol ester of oleic acid		No data available			

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Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
white mineral oil (petroleum)		No data available			
distillates (petroleum), hydrotreated light		No data available			
butane		No data available			
propane		No data available			
Polyglycerol ester of oleic acid		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
white mineral oil (petroleum)		No data available				
distillates (petroleum), hydrotreated light		No data available				
butane		No data available				
propane		No data available				
Polyglycerol ester of oleic acid		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
white mineral oil (petroleum)		No data available				
distillates (petroleum), hydrotreated light		No data available				
butane		No data available				
propane		No data available				
Polyglycerol ester of oleic acid		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
white mineral oil (petroleum)		No data available				
distillates (petroleum), hydrotreated light		No data available				
butane		No data available				
propane		No data available				
Polyglycerol ester of oleic acid		No data available				

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

12.2 Persistence and degradability**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

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Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
white mineral oil (petroleum)			> 31 % in 28 day(s)	OECD 301F	Not readily biodegradable.
distillates (petroleum), hydrotreated light					Inherently biodegradable.
butane					Readily biodegradable
propane					Readily biodegradable
Polyglycerol ester of oleic acid					Not readily biodegradable.

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
white mineral oil (petroleum)	No data available			
distillates (petroleum), hydrotreated light	No data available			
butane	No data available			
propane	No data available			
Polyglycerol ester of oleic acid	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
white mineral oil (petroleum)	No data available				
distillates (petroleum), hydrotreated light	No data available				
butane	No data available				
propane	No data available				
Polyglycerol ester of oleic acid	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
white mineral oil (petroleum)	No data available				
distillates (petroleum), hydrotreated light	No data available				
butane	No data available				
propane	No data available				
Polyglycerol ester of oleic acid	No data available				

12.5 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

Empty packaging

Recommendation:

Dispose of observing national or local regulations.

SECTION 14: Transport information



Land transport, Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

14.1 UN number: 1950

14.2 UN proper shipping name:

Aerosols

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 2.1

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14.4 Packing group: -

14.5 Environmental hazards:

Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user: None known.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: The product is not transported in bulk tankers.

Other relevant information:

IMO/IMDG

EmS: F-D, S-U

The product has been classified, labelled and packaged in accordance with the requirements of national road transport regulations and the provisions of the IMDG Code

Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

SECTION 15: Regulatory information

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

National regulations

- Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

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Full text of the H phrases mentioned in section 3:

- H220 - Extremely flammable gas.
- H304 - May be fatal if swallowed and enters airways.
- H315 - Causes skin irritation.
- H319 - Causes serious eye irritation.
- H336 - May cause drowsiness or dizziness.
- H411 - Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

- DNEL - Derived No Effect Limit
- PNEC - Predicted No Effect Concentration
- ATE - Acute Toxicity Estimate
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level
- NOAEL - No observed adverse effect level
- STOT-RE - Specific target organ toxicity (repeated exposure)
- STOT-SE - Specific target organ toxicity (single exposure)
- OECD - Organization for Economic Cooperation and Development

End of Safety Data Sheet