



Safety Data Sheet according to GB/T 16483-2008

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TEROSON VR 500

SDS No. : 76984

V001.4

Revision: 13.07.2016

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1. Identification of the substance/preparation and of the company/undertaking

Product name: TEROSON VR 500

Company name:

Henkel (China) Investment Co. Ltd.
No.928 Zhangheng Rd.
201203 Pudong, Shanghai, P.R. China

Germany

Phone: +86-21-2891 8000

Fax-no.: +86-21-2891 5137

Revision date: 13.07.2016

Emergency information: Emergency telephone: +86 532 8388 9090 (24h).

2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 (General rule for classification and hazard communication of chemicals):

No classification required.

Label elements according to GB 15258-2009 (General rules for preparation of precautionary label for chemicals):

No classification required.

3. Composition / information on ingredients

General description: Mixture

Declaration of the ingredients according to GB 13690-2009:

Hazard component CAS-No.	Content	GHS Classification
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite 68953-58-2	1- < 10 %	Acute hazards to the aquatic environment 3 H402

Only hazardous ingredients for which a classification according to GB 13690-2009 is already available are displayed in this table. For full text of the Hazard statements see section 16 "Other information".

4. First aid measures

- Skin contact:** Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.
- Eye contact:** Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.
- Inhalation:** Move to fresh air, consult doctor if complaint persists.
- Ingestion:** Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

5. Fire fighting measures

- Hazardous combustion products:** carbon oxides.
- Extinguishing media:** Water spray (fog), foam, dry chemical or carbon dioxide.
- Fire-fighting method:** Collect contaminated fire fighting water separately. It must not enter drains.
- Notice and measures for firing fighting:** In case of fire toxic gases can be released.
Wear full protective clothing.
Wear self-contained breathing apparatus.

6. Accidental release measures

- Emergency measures:** Wear appropriate protective equipment and clothing during clean-up.
Prevent further leakage or spillage if safe to do so.
Remove all sources of ignition.
- Clean-up methods:** Absorb spill with inert material. Shovel material into appropriate container for disposal.

7. Handling and storage

- Notice for handling:** Avoid contact with eyes, skin and clothing.
Avoid breathing vapors or mists of this product.
Remove all sources of ignition.
- Notice for storage:** Store in a cool, dry place.
Steel container

8. Exposure controls / personal protection

Hazardous components	GBZ 2.1-2007	ACGIH	NIOSH	OSHA
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite	none	none		none

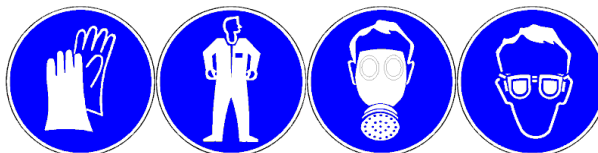
- Engineering controls:** Ensure good ventilation/suction at the workplace.
- Respiratory protection:** In case of dust formation, we recommend wearing of appropriate respiratory protection equipment with particle filter P (EN 14387).
This recommendation should be matched to local conditions.
- Eye protection:** Goggles which can be tightly sealed.
- Body protection:** Suitable protective clothing

Hand protection:

Chemical-resistant protective gloves (EN 374).
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):
nitrile rubber (NBR; ≥ 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):
nitrile rubber (NBR; ≥ 0.4 mm thickness)
This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Other protection:

The selection of PPE shall at least comply with "Law of the People's Republic of China on Prevention and Control of Occupational Diseases" and "Code of practice for selection of personal protective equipments" (GB/T 11651-2008).

Pictograms for recommended PPE:**9. Physical and chemical properties**

Physical state:	solid material	Appearance:	brownish pasty
pH:	Not available.	Melting point:	Not available.
Boiling point:	Not available.	Density:	0.9 g/cm ³
Flash point:	Not applicable	Ignition temperature:	Not available.
Solubility in water	Insoluble	Viscosity:	100,000 - 130,000 mPa.s

10. Stability and reactivity

Stability:	Stable at normal conditions.
Conditions to avoid:	Keep away from heat, ignition sources and incompatible materials.
Incompatible products:	Strong oxidizing agents.
Decomposition products:	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Hazardous polymerization:	Will not occur.

11. Toxicological information**General toxicological information:**

No experimental toxicological data on the preparation as such is available.

Other remarks:

Not available.

Toxicity data:

No data available.

12. Ecological information**General ecological information:**

Do not empty into drains / surface water / ground water.

Ecotoxicity:

May cause long-term adverse effects in the aquatic environment.

Other adverse effects:

Not available.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite 68953-58-2	LC50	1,800 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite 68953-58-2	EC50	2,808 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite 68953-58-2	EC10	4.9 mg/l	Algae	4 d	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite 68953-58-2	EC50	18 mg/l	Algae	4 d	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite 68953-58-2	EC10	330 mg/l	Bacteria	16 h		

13. Disposal considerations**Product disposal:**

If the waste is classified as hazardous waste according to GB 5085.7-2007 (Identification standards for hazardous wastes, General Specifications). Dispose of as hazardous waste in compliance with "Regulation on the Safety Management of Hazardous Chemicals", "Law of the People's Republic of China on the prevention and control of Environmental Pollution by Solid Waste", "National Catalogue of Hazardous Waste".

Disposal of uncleaned packages: After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

14. Transport information

General information:

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

Notice For Transportation:

Transport according to local and national regulations. Ensure containers will not leak, collapse, or being damaged when transported. DO NOT transport with incompatible materials. Transportation vehicle should be equipped with right fire-fighting equipment in case of emergency. Avoid solarization, drenched and high temperature when transported.

15. Regulatory information

The following laws and regulations lay down provisions in terms of chemicals safety use, storage, transportation, loading/unloading, classification as well as symbol.

“Law of the People's Republic of China on Work Safety” (Adopted by the 28th meeting of 9th NPC standing committee on 29th June 2002, revised by 10th meeting of 12nd NPC standing committee on 31st Aug 2014).

“Law of the People's Republic of China on the Prevention and Treatment of Occupational Diseases” (Adopted by the 24th meeting of 9th NPC standing committee on 27th October 2001, revised by 24th meeting of 11st NPC standing committee on 31st Dec 2011).

“Law of the People's Republic of China on environmental protection” (Adopted by 11st meeting of 7th NPC standing committee on 26th December 1989, revised by 8th meeting of 12nd NPC standing committee on 24th Apr 2014).

“Regulation on the Safety Management of Hazardous Chemicals” (Adopted by 144th State Council executive meeting on 16th February 2011).

“Regulations on License to Work Safety” (Adopted by 54th State Council executive meeting on 29th July 2014).

China Inventory of Existing Chemicals:

All components are listed or are exempt from Inventory of Existing Chemical Substances in China.

16. Other information

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Issue department: Regulatory Affairs

Disclaimer:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties. The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

Others:

The full text of all abbreviations indicated by codes in this safety data sheet section 3 are as follows:

H402 Harmful to aquatic life.