



# SAFETY DATA SHEET

REF 27039, 27040, 27043, 27047 ZONE Temporary Cement

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

### Identification of the substance or preparation

**Product name** : REF 27039, 27040, 27043, 27047 ZONE Temporary Cement  
**Synonyms** : ZONE Temporary Cement Shade A1, Temporary Cement

### Company/undertaking identification

**Supplier** : Dux Dental B.V.  
 Zonnebaan 14  
 3542 EC Utrecht  
 The Netherlands  
 +31 (0)30 - 24 10 924  
 E-mail: info@dux-dental.com

**Emergency telephone number** : National Poisons Information Service (London Centre)  
 Emergency number: +44 20 7771 5307

## 2. Hazards identification

This product is a medical device and is regulated under EC Directive 93/42/EEC (the Medical Device Directive). A Safety Data Sheet is not required for medical devices according to Regulation No 1907/2006 (REACH, Article 2, point 6). This Safety Data Sheet is supplied as an additional service. The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : N; R51/53  
**Physical/chemical hazards** : Not applicable.  
**Human health hazards** : Not applicable.  
**Environmental hazards** : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

## 3. Composition/information on ingredients

**Substance/preparation** : Preparation

Ingredient name	CAS number	%	EC Number	Classification
zinc oxide	1314-13-2	20 - 25	215-222-5	N; R50/53
<b>See section 16 for the full text of the R-phrases declared above</b>				

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

## 4. First-aid measures

### First-aid measures

**Inhalation** : Not applicable  
**Ingestion** : Get medical attention if symptoms appear.  
**Skin contact** : Flush contaminated skin with plenty of water. Obtain medical attention if symptoms occur.  
**Eye contact** : Not applicable

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

## 5. Fire-fighting measures

**Extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.  
**Special exposure hazards** : In a fire or if heated, a pressure increase will occur and the container may burst. 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. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
metal oxide/oxides
- 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.

## 6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
- Methods for cleaning up** : Allow to set and remove from surface. Place spilt material in an appropriate container for disposal.

## 7. Handling and storage

- Handling** : Read attached instructions before use.
- Storage** : 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.

### Packaging materials

- Recommended** : Use original container.

## 8. Exposure controls/personal protection

- Exposure limit values** : Not available.
- Exposure controls**
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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** : 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.
- Eye 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.
- Skin 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.

## 9. Physical and chemical properties

- Physical state** : A two paste system (yellow base, white catalyst) which sets to a pliable mass
- Colour** : Yellow - White.
- Odour** : None.
- Odour threshold** : Not available.
- pH** : Not available.
- Boiling point** : Not available.
- Melting point** : Not available.
- Flash point** : Not available.
- Flammability (solid, gas)** : Not applicable.
- Explosive properties** : Not available.
- Explosion limits** : Not available.
- Oxidising properties** : Not available.

Vapour pressure	: Not available.
Relative density	: Not available.
Solubility	: Very slightly soluble in the following materials: cold water and hot water.
Octanol/water partition coefficient	: Not available.
Viscosity	: Not available.
Vapour density	: Not available.
Evaporation rate (butyl acetate = 1)	: Not available.
Auto-ignition temperature	: Not available.

## 10. Stability and reactivity

Stability	: The product is stable.
Hazardous decomposition products	: Decomposition products may include the following materials: metal oxide/oxides

## 11. Toxicological information

### Potential acute health effects

Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Eye contact	: No known significant effects or critical hazards.

### Potential chronic health effects

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.

### Over-exposure signs/symptoms

Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin	: No known significant effects or critical hazards.
Target organs	: No known significant effects or critical hazards.
Other adverse effects	: Not available.

## 12. Ecological information

### Ecotoxicity data




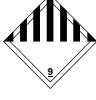
<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
zinc oxide	Daphnia magna (EC50)	48 hour(s)	>1000 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	1.1 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	>320 mg/l
	Pimephales promelas (LC50)	96 hour(s)	2246 mg/l

Other adverse effects	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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## 13. Disposal considerations

Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.

**14. Transport information**International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
<b>ADR/RID Class</b>	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide)	9	III		<b>Limited quantity</b> LQ7
<b>ADNR Class</b>	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide)	9	III		-
<b>IMDG Class</b>	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide)	9	III		-
<b>IATA-DGR Class</b>	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide)	9	III		-

**15. Regulatory information**EU regulations

**Label requirements** : This product is a medical device and is regulated under EC Directive 93/42/EEC (the Medical Device Directive). A Safety Data Sheet is not required for medical devices according to Regulation No 1907/2006 (REACH, Article 2, point 6). This Safety Data Sheet is supplied as an additional service. The product is labelled in accordance with Directive 93/42/EEC.

**16. Other information**

**Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK)** : R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK)** : N - Dangerous for the environment

History

**Date of printing** : 10-6-2008.  
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**Date of previous issue** : No previous validation.  
**Version** : 1  
**Prepared by** : Not available.

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.*