

SAFETY DATA SHEET

Limescale Preventer 450g

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

1.1 Product identifier	
Product name	: Limescale Preventer 450g
Product code	: 61015
Product description	: Not available.
Product type	: Solid.

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

Restricted to professional users.

Material uses 1.3 Details of the supplier of th	: Water treatment agent. Te safety data sheet
Supplier	: Fernox 2 Genesis Business Park Albert Drive Sheerwater Woking GU21 5RW
Information contact	: +44 (0) 330 100 7750 +44 (0) 330 100 7751 europeanregulatory@macdermid.com
1.4 Emergency telephone num	iber

SupplierTelephone number: +44 (0) 330 100 7750Hours of operation: 24/7

SECTION 2: Hazards identification

2.1 Classification of the su	bstance or mixture	
Product definition	: Mixture	
Classification according t Not classified.	o Regulation (EC) No. 1272/2008 [CLP/GHS]	
Ingredients of unknown toxicity	:	
Ingredients of unknown ecotoxicity	:	
Classification according to Directive 1999/45/EC [DPD]		
<u>Europe</u>		

```
Date of issue/Date of revision : 30.11.2016
```

2/12

Limescale Preventer 450g

SECTION 2: Hazards identification

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.

See Section 16 for the full text of the R phrases or H statements declared above.

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

2.2 Label elements	
Hazard pictograms	4
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazardous ingredients	4
Supplemental label elements	: Not applicable.

2.3 Other hazards	
Other hazards which do not result in classification	: None known.

SECTION 3: Composition/information on ingredients

Substance/mixture

: Mixture

Туре

.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact		ediately flush eyes with plenty of water, occasionally lifting the upper and lower ids. Check for and remove any contact lenses. Get medical attention if irritation urs.
Inhalation		nove victim to fresh air and keep at rest in a position comfortable for breathing. medical attention if symptoms occur.
Skin contact		h contaminated skin with plenty of water. Remove contaminated clothing and es. Get medical attention if symptoms occur.
Ingestion	posi pers	sh out mouth with water. Remove victim to fresh air and keep at rest in a tion comfortable for breathing. If material has been swallowed and the exposed son is conscious, give small quantities of water to drink. Do not induce vomiting ss directed to do so by medical personnel. Get medical attention if symptoms ur.
Protection of first-aiders	: No a	action shall be taken involving any personal risk or without suitable training.
4.2 Most important symptoms and effects, both acute and delayed		
Potential acute health effe	<u>ts</u>	
Eye contact	: No ł	known significant effects or critical hazards.
Inhalation	: No k	nown significant effects or critical hazards.

Limescale Preventer 450g	3/
SECTION 4: First aid	measures
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	<u>toms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
4.3 Indication of any immedi	ate medical attention and special treatment needed
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
SECTION 5: Firefigh	ting 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 f	rom the substance or mixture
Hazards from the substance or mixture	: No specific fire or explosion hazard.
Hazardous combustion products	: Decomposition products may include the following materials: phosphorus oxides metal oxide/oxides
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident 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. 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			
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. 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

Date of issue/Date of revision : 30.11.2016	A MacDermid Performance Solutions Business 🚃
	A Platform Specialty Products Company 🎮

Limescale Preventer 450g

SECTION 6: Accidental release measures

Small spill	: Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
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).	
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.	i
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 incompatib 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 contain Use appropriate containment to avoid environmental contamination.	1
7.3 Specific end use(s)		
Recommendations	Not available.	
Industrial sector specific solutions	Not available.	

SECTION 8: Exposure controls/personal protection

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).

8.1 Control parameters

Occupational exposure limits

Europe

No exposure limit value known.

Austria

No exposure limit value known.

Belgium

No exposure limit value known.

Bulgaria

No exposure limit value known.

Croatia

No exposure limit value known.

Czech Republic

No exposure limit value known.

Limescale Preventer 450g

SECTION 8: Exposure controls/personal protection

Denmark

No exposure limit value known.

Estonia

No exposure limit value known.

Finland

No exposure limit value known.

France

No exposure limit value known.

Germany

No exposure limit value known.

Greece

No exposure limit value known.

Hungary

No exposure limit value known.

Ireland

No exposure limit value known.

Italy

No exposure limit value known.

Latvia

No exposure limit value known.

Lithuania

No exposure limit value known.

Netherlands

No exposure limit value known.

Norway

No exposure limit value known.

Poland

No exposure limit value known.

Portugal

No exposure limit value known.

Romania

No exposure limit value known.

Slovakia

No exposure limit value known.

Slovenia

No exposure limit value known.

Spain

No exposure limit value known.

Sweden

No exposure limit value known.

Switzerland

No exposure limit value known.

Turkey

No exposure limit value known.

Limescale Preventer 450g

SECTION 8: Exposure controls/personal protection

United Kingdom (UK)

No exposure limit value known.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Derived effect levels

No DELs available.

Predicted effect concentrations

No PECs available.

8.2 Exposure controls

Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	<u>ures</u>	
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. 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: None assigned.
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. < 1 hour (breakthrough time): disposable vinyl
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: None assigned.
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	:	Use a properly fitted, particulate filter 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. Recommended: None assigned.
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.

7/12

Limescale Preventer 450g

SECTION 9: Physical and chemical properties

,		
9.1 Information on basic physical	and chemical properties	
<u>Appearance</u>		
Physical state	: Solid.	
Colour	: Colourless.	
Odour	: Characteristic.	
рН	: 7.2 [Conc. (% w/w): 1%]	
Melting point/freezing point	: Not available.	
Initial boiling point and boiling range	: Not available.	
Flash point	: Not available.	
Upper/lower flammability or explosive limits	: Not available.	
Relative density	: Not available.	
Solubility(ies)	: Easily soluble in the following materials: cold water and hot water.	
Partition coefficient: n-octanol/ water	: Not available.	
Auto-ignition temperature	: Not available.	
VOC content	0 % (w/w) [ISO % 11890-2]	

9.2 Other information

No additional information.

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.	
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 toxicolo	ogical effects	
Acute toxicity		
Conclusion/Summary	: Not available.	
Acute toxicity estimates		
Not available.		
Irritation/Corrosion		
Conclusion/Summary	: Not available.	
<u>Sensitiser</u>		
Date of issue/Date of revision	on : 30.11.2016	A MacDermid Performance Solutions Business

Limescale Preventer 450g

Limescale Preventer 450g		0,72
SECTION 11: Toxico	ological information	
Conclusion/Summary	: Not available.	
Mutagenicity		
Conclusion/Summary	: Not available.	
Carcinogenicity		
Conclusion/Summary	: Not available.	
Reproductive toxicity		
Conclusion/Summary	: Not available.	
<u>Teratogenicity</u>		
Conclusion/Summary	: Not available.	
Specific target organ toxic	<u>sity (single exposure)</u>	
Not available.		
Specific target organ toxic	<u>sity (repeated exposure)</u>	
Not available.		
Aspiration hazard		
Not available.		
Information on likely	: Not available.	
Information on likely routes of exposure	: Not available.	
Potential acute health effe	cts	
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.	
	physical, chemical and toxicological characteristics	
Inhalation	: No specific data.	
Ingestion	No specific data.	
Skin contact	No specific data.	
Eye contact	: No specific data.	
	fects as well as chronic effects from short and long-term exposure	
Short term exposure		
Potential immediate	: Not available.	
effects		
Potential delayed effect	s : Not available.	
Long term exposure		
Potential immediate	: Not available.	
effects		
Potential delayed effect		
Potential chronic health et	TECTS	
Not available.		
Conclusion/Summary	: Not available.	
General	: No known significant effects or critical hazards.	
Carcinogenicity	: No known significant effects or critical hazards.	
Mutagenicity	: No known significant effects or critical hazards.	
Teratogenicity	: No known significant effects or critical hazards.	
Developmental effects	: No known significant effects or critical hazards.	
Fertility effects	: No known significant effects or critical hazards.	
Other information	: Not available.	

Limescale Preventer 450g	9/12
SECTION 12: Ecological information	

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil	
Soil/water partition coefficient (K _{oc})	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment		
PBT	: Not applicable.	
vPvB	: Not applicable.	

12.6 Other adverse effects

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).

: No known significant effects or critical hazards.

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	: Within the present knowledge of the supplier, this product is not regarded as

hazardous waste, as defined by EU Directive 91/689/EEC.

European waste catalogue (EWC)

Waste code	Waste designation	
16 03 04	inorganic wastes other than those mentioned in 16 03 03	
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. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. 	

Limescale Preventer 450g

SECTION 14: Transport information

	ADR/RID	IMDG	ATAI
14.1 UN number	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.
Additional information	-	-	-

user

14.6 Special precautions for : 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.

10/12

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

: Not available.

Substances of very high concern

None of the components are listed.

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

Other EU regulations

: All components are listed or exempted.

Europe inventory National regulations

- **Austria**
- **Belgium**
- **Bulgaria**

Croatia

Czech Republic

Denmark

Estonia Finland

France

Limescale Preventer 450g

SECTION 15: Regulatory information

	······································
<u>Germany</u>	
Hazard class for water	: nwg Appendix No. 3
<u>Greece</u>	
<u>Hungary</u>	
<u>Ireland</u>	
<u>Italy</u>	
<u>Latvia</u>	
<u>Lithuania</u>	
Netherlands	
<u>Norway</u>	
Poland	
Portugal	
<u>Romania</u>	
<u>Slovakia</u>	
<u>Slovenia</u>	
<u>Spain</u>	
Sweden	
Switzerland	
<u>Turkey</u>	
United Kingdom (UK)	
15.2 Chemical safety	: This product contains substances for which Chemical Safety Assessments are still
assessment	required.
SECTION 16: Other	information

S

Date of printing	10.12.2016
Date of issue/ Date of revision	: 30.11.2016
Date of previous issue	: 29.11.2016
Version	: 2.12
Notice to reader	

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number
	KKN - KLACH Keystation Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Class	Classification		
Not classified.			
<u>Europe</u>			
Full text of abbreviated H statements	: Not applicable.		
Full text of classifications [CLP/GHS]	: Not applicable.		
Full text of abbreviated R	: Not applicable.		

phrases

Justification

Limescale Preventer 450g

Full text of classifications : Not applicable. [DSD/DPD]

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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.

Fernox SDS CLP Europe