

SAFETY DATA SHEET

Central Heating Boiler Noise Silencer F2

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

1.1 Product identifier	
Product name	: Central Heating Boiler Noise Silencer F2
Product code	: 56602
Product description	: Not available.
Product type	: Liquid.

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 t	: Water-boiler treatment. the 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 nur	nber

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

SECTION 2: Hazards identification

2.1 Classification of the su	ibstance or mixture
Product definition	: Mixture
Classification according to Not classified.	to 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>	

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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	1 · · · · · · · · · · · · · · · · · · ·
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	:
Supplemental label elements	: Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

			Clas	<u>ssification</u>	
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Croatia					
propane-1,2-diol	REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≥3 - <5	Not classified.	Not classified.	-
Ireland					
propane-1,2-diol	REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≥3 - <5	Not classified.	Not classified.	[2]
Latvia					
propane-1,2-diol	REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≥3 - <5	Not classified.	Not classified.	[2]
Lithuania					
propane-1,2-diol	REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≥3 - <5	Not classified.	Not classified.	[2]
Norway					

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SECTION 3: Co	SECTION 3: Composition/information on ingredients				
propane-1,2-diol	REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≥3 - <5	Not classified.	Not classified.	[2]
United Kingdom (UK	()				
propane-1,2-diol	REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≥3 - <5	Not classified.	Not classified.	[2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	: No 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 effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs	/symptoms
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
4.3 Indication of any in	nmediate medical attention and special treatment needed
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

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SECTION 5: Firefighting 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 fi	rom the substance or mixture
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen 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 if 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: Acciden	tal release measures

6.1 Personal precautions, pro	tective 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 o	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. 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.

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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).

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7.1 Precautions for safe han	lling
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.
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 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.
7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: Not available.
7.3 Specific end use(s) Recommendations Industrial sector specific	 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. 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

Product/ingredient name	Exposure limit values
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	
propane-1,2-diol	MinGoRP GVI/KGVI (Croatia, 6/2013). ELV: 10 mg/m ³ 8 hours. Form: particulates ELV: 474 mg/m ³ 8 hours. Form: total vapour and particulates ELV: 150 ppm 8 hours.
Czech Republic	
No exposure limit value known.	
Denmark	
No exposure limit value known.	
Estonia	
No exposure limit value known.	
Finland	
No exposure limit value known.	

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SECTION 8: Exposure controls/p	ersonal protection
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	
propane-1,2-diol	NAOSH (Ireland, 12/2011).
	OELV-8hr: 10 mg/m ³ 8 hours. Form: particulate OELV-8hr: 470 mg/m ³ 8 hours. Form: vapour and particulates OELV-8hr: 150 ppm 8 hours. Form: vapour and particulates
Italy	
No exposure limit value known.	
Latvia	
propane-1,2-diol	Ministru kabineta - AER (Latvia, 2/2011). TWA: 7 mg/m³ 8 hours.
Lithuania	
propane-1,2-diol	Lietuvos Higienos Normos HN 23 (Lithuania, 10/2007). TWA: 7 mg/m ³ 8 hours.
Netherlands	
No exposure limit value known.	
Norway	
propane-1,2-diol	FOR-2011-12-06-1358 (Norway, 1/2013). TWA: 79 mg/m³ 8 hours. TWA: 25 ppm 8 hours.
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.	
United Kingdom (UK)	
Dete of issue/Dete of revision	A MacDermid Performance Solutions Business

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SECTION 8: Exposure controls/personal protection

EH40/2005 WELs (United Kingdom (UK), 12/2011).
TWA: 10 mg/m ³ 8 hours. Form: Particulate TWA: 474 mg/m ³ 8 hours. Form: Sum of vapour and particulates TWA: 150 ppm 8 hours. Form: Sum of vapour and particulates

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 measured	ures	
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, 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. 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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical	l a	nd chemical properties
<u>Appearance</u>		
Physical state	:	Liquid.
Colour	1	Straw. [Light]
Odour	1	Not available.
рН	:	7
Melting point/freezing point	1	Not available.
Initial boiling point and boiling range	:	100°C
Flash point	:	[Product does not sustain combustion.]
Upper/lower flammability or explosive limits	:	Not available.
Relative density	1	Not available.
Solubility(ies)	1	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		₩0.6 % (w/w)

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 toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
	LD50 Oral	Rat - Female	2001 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Not available.

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SECTION 11: Toxicological information

	ogical information
Irritation/Corrosion	
Conclusion/Summary	: Not available.
<u>Sensitiser</u>	
Conclusion/Summary	: Not available.
Mutagenicity	
Conclusion/Summary	: Not available.
<u>Carcinogenicity</u>	
Conclusion/Summary	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.
Teratogenicity	
Conclusion/Summary	: Not available.
Specific target organ toxicit Not available.	<u>y (single exposure)</u>
Specific target organ toxicit	<u>y (repeated exposure)</u>
Not available.	
Aspiration hazard	
Not available.	
Information on likely	: Not available.
routes of exposure	
Potential acute health effect	<u>s</u>
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.
Symptoms related to the ph	ysical, chemical and toxicological characteristics
Inhalation	: No specific data.
Ingestion	: No specific data.
Skin contact	: No specific data.
Eye contact	: No specific data.
Delayed and immediate effe	cts as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
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.
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SECTION 11: Toxicological information

Developmental effects Fertility effects Other information

- : No known significant effects or critical hazards.
- : No known significant effects or critical hazards.

: Not available.

SECTION 12: Ecological information

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12.1 Toxicity	
Conclusion/Summary	: Not available.
12.2 Persistence and degi	radability
Conclusion/Summary	: Not available.
12.3 Bioaccumulative pote Not available.	ential
12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.
12.5 Results of PBT and v	PvB assessment
PBT	: Not applicable.

РВТ	: Not applicable
vPvB	: Not applicable

12.6 Other adverse effects

: No known significant effects or critical hazards.

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).

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 inorganic wastes other than those mentioned in 16 03 03		
16 03 04			
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. 		

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SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ		
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.

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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

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SECTION 15: Regulatory information

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Germany	
Hazard class for water	: 2 Appendix No. 4
<u>Greece</u>	
<u>Hungary</u>	
<u>lreland</u>	
<u>Italy</u>	
<u>Latvia</u>	
<u>Lithuania</u>	
Netherlands	
<u>Norway</u>	
Poland	
<u>Portugal</u>	
<u>Romania</u>	
<u>Slovakia</u>	
<u>Slovenia</u>	
<u>Spain</u>	
<u>Sweden</u>	
Switzerland	
<u>Turkey</u>	
<u>United Kingdom (UK)</u>	
15.2 Chemical safety assessment	 This product contains substances for which Chemical Safety Assessments are still required.
SECTION 16: Other	information

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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

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

Classi	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 phrases	: Not applicable.		

Justification

Central Heating Boiler Noise Silencer F2

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