

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - United Kingdom (UK)

# SAFETY DATA SHEET

Central Heating Boiler Noise Silencer F2

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

1	.1	Pr	odι	ict	ide	ntifi	er

Product name Product code

**Product type** 

- : Central Heating Boiler Noise Silencer F2
- : 56602
  - : Liquid.

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

Identified uses		
Consumer applications, Industrial applications.		
Material uses		
Water-boiler treatment.		
Uses advised against		
Not applicable.		

### 1.3 Details of the supplier of the safety data sheet

e-mail address of person responsible for this SDS	: Europeanregulatory@macdermid.com
Supplier	<ul> <li>Fernox</li> <li>2 Genesis Business Park</li> <li>Albert Drive</li> <li>Sheerwater</li> <li>Woking GU21 5RW</li> </ul>
Information contact	: Tel. No.: +44 (0) 330 100 7750 +44 (0) 330 100 7751 E-Mail: europeanregulatory@macdermid.com

1.4 Emergency telephone number

National advisory body/Poison Centre		
Telephone number	:	
<u>Supplier</u>		
Telephone number	: +44 (0) 330 100 7750	
Hours of operation	: 24/7	

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

<u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] \*</u> Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
General	<ul> <li>P103 - Read label before use.</li> <li>P102 - Keep out of reach of children.</li> <li>P101 - If medical advice is needed, have product container or label at hand.</li> </ul>
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
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**

3.2 Mixtures : Mixture				
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP] *	Туре
propane-1,2-diol	REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≤5	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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit 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

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

### **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.

### **SECTION 4: First aid measures**

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	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</li> </ul>
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	1	No specific data.
Inhalation	1	No specific data.
Skin contact	1	No specific data.
Ingestion	:	No specific data.

#### 4.3 Indication of any immediate 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.

# **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 f	ron	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 protective actions 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.

### **SECTION 5: Firefighting measures**

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, 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	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	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

### **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.

### 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)

Consumer applications, Industrial applications.

Date of issue/Date of revision	: 14/10/2017	Version :3.1	A MacDermid Performance Solutions Business
Date of previous issue	: 14/10/2017		A Platform Specialty Products Company 🎮

5/11

Central Heating Boiler Noise Silencer F2

# **SECTION 7: Handling and storage**

Water-boiler treatment.

### **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
propane-1,2-diol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Particulate TWA: 474 mg/m <sup>3</sup> 8 hours. Form: Sum of vapour and particulates TWA: 150 ppm 8 hours. Form: Sum of vapour and particulates
procedures atmosphere or I of the ventilation protective equip the following: E the assessment limit values and atmospheres - ( of exposure to o (Workplace atm for the measure	ontains ingredients with exposure limits, personal, workplace biological monitoring may be required to determine the effectiveness on or other control measures and/or the necessity to use respiratory ment. Reference should be made to monitoring standards, such as suropean Standard EN 689 (Workplace atmospheres - Guidance for t of exposure by inhalation to chemical agents for comparison with measurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 nospheres - General requirements for the performance of procedures ement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be

#### **DNELs/DMELs**

No DNELs/DMELs available.

#### **PNECs**

No PNECs available

8.2 Exposure controls		
Appropriate engineering controls		general ventilation should be sufficient to control worker exposure to airborne minants.
Individual protection meas	<u>ures</u>	
Hygiene measures	befo Appr Was	n hands, forearms and face thoroughly after handling chemical products, e eating, smoking and using the lavatory and at the end of the working period. opriate techniques should be used to remove potentially contaminated clothing. n contaminated clothing before reusing. Ensure that eyewash stations and y showers are close to the workstation location.
Eye/face protection	asse gase unle	y eyewear complying with an approved standard should be used when a risk ssment indicates this is necessary to avoid exposure to liquid splashes, mists, s or dusts. If contact is possible, the following protection should be worn, s the assessment indicates a higher degree of protection: safety glasses with shields. Recommended: None assigned.
Skin protection		
Hand protection	be w	nical-resistant, impervious gloves complying with an approved standard should orn at all times when handling chemical products if a risk assessment indicates s necessary. < 1 hour (breakthrough time): disposable vinyl
Body protection	bein	onal protective equipment for the body should be selected based on the task performed and the risks involved and should be approved by a specialist e handling this product. Recommended: None assigned.
Other skin protection	sele	opriate footwear and any additional skin protection measures should be ted based on the task being performed and the risks involved and should be oved by a specialist before handling this product.
Date of issue/Date of revision	: 14/1	0/2017 Version :3.1 A MacDermid Performance Solutions Business
Date of previous issue	: 14/-	A Platform Specialty Products Company 🎮

## **SECTION 8: Exposure controls/personal protection**

Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. 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.

### **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical	l a	nd chemical properties
<u>Appearance</u>		
Physical state	1	Liquid.
Colour	1	Straw. [Light]
Odour	÷	Not available.
Odour threshold	1	Not available.
рН	÷	7
Melting point/freezing point	÷	Not available.
Initial boiling point and boiling range	1	100°C
Flash point	:	[Product does not sustain combustion.]
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Upper/lower flammability or explosive limits	:	Not available.
Vapour pressure	:	Not available.
Vapour density	:	>1 [Air = 1]
Relative density	:	1.08 g/cm <sup>3</sup>
Solubility(ies)	:	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	1	Not available.
Auto-ignition temperature	÷	Not available.
Decomposition temperature	÷	Not available.
Viscosity	÷	Not available.
Explosive properties	:	Not available.
Oxidising properties	:	Not available.

#### 9.2 Other information

No additional information.

### **SECTION 10: Stability and reactivity**

10.1 Reactivity	:	No specific data.			
10.2 Chemical stability	:	The product is stal	ble.		
10.3 Possibility of hazardous reactions	:	Under normal cond	ditions of s	storage ar	nd use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	No specific data.			
10.5 Incompatible materials	:				
Date of issue/Date of revision Date of previous issue		: 14/10/2017 : 14/10/2017	Version	:3.1	A MacDermid Performance Solutions Business A Platform Specialty Products Company

# **SECTION 10: Stability and reactivity**

See Section 10.1.

#### **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

Product/ingredient name	Result	Species	Dose	Exposure
CONC CH NOISE	LD50 Oral	Rat - Female		Exposure
SILENCER BULK	LD50 Oral	Rat - Female	2001 mg/kg	-
<b>Conclusion/Summary</b>	: Not available.			
Acute toxicity estimates				
Not available.				
Irritation/Corrosion				
Conclusion/Summary	: Not available.			
Sensitisation				
Conclusion/Summary	: Not available.			
Mutagenicity				
Conclusion/Summary	: Not available.			
<b>Carcinogenicity</b>				
Conclusion/Summary	: Not available.			
Reproductive toxicity				
<b>Conclusion/Summary</b>	: Not available.			
Teratogenicity				
Conclusion/Summary	: Not available.			
Specific target organ toxicit	<u>y (single exposure)</u>			
Not available.				
Specific target organ toxicit	y (repeated exposure)			
Not available.				
Aspiration hazard				
Not available.				
Information on likely routes of exposure	: Not available.			
Symptoms related to the physical	sical, chemical and toxi	cological characteristic	<u>s</u>	
Eye contact	: No specific data.			
Inhalation	: No specific data.			
Skin contact	: No specific data.			
Ingestion	: No specific data.			
Delayed and immediate effec	ts as well as chronic eff	fects from short and lon	a-term exposure	
Short term exposure			<u>g</u>	
Potential immediate	: Not available.			
effects				
Potential delayed effects	: Not available.			
Long term exposure				
Date of issue/Date of revision	: 14/10/2017		ermid Performance So A Platform Specialty P	
Date of previous issue				

# **SECTION 11: Toxicological information**

	5
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
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.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

**Other information** 

: Not available.

# **SECTION 12: Ecological information**

12.1 Toxicity Conclusion/Summary	: Not available.				
12.2 Persistence and degr	adability				
Conclusion/Summary	: Not available.				
<b>12.3 Bioaccumulative pote</b> Not available.	ential				
12.4 Mobility in soil					
Soil/water partition coefficient (Koc)	: Not available.				
Mobility	: Not available.				
12.5 Results of PBT and vPvB assessment					
PBT	: 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 co with the requirements of environmental protection and waste disposal legisla and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should disposed of untreated to the sewer unless fully compliant with the requirement all authorities with jurisdiction.	mply tion not be
Hazardous waste	: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.	
Date of issue/Date of revision	: 14/10/2017 Version :3.1 A MacDermid Performance Solutions Busin	ness
Date of previous issue	- 14/10/2017 A Platform Specialty Products Com	pany 💌

# **SECTION 13: Disposal considerations**

### 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	<ul> <li>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.</li> </ul>	
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.	

### **SECTION 14: Transport information**

	1		1
	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. Not a pollutant.	No.
Additional information	-	-	-

**14.6 Special precautions for user**: **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.

14.7 Transport in bulk: Not available.according to Annex II of<br/>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

Annex XIV

None of the components are listed.

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

## **SECTION 15: Regulatory information**

#### Other EU regulations

**Europe inventory** : All components are listed or exempted.

Ozone depleting substances (1005/2009/EU) Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

#### Seveso Directive (2012/18/EU)

This product is not controlled under the Seveso Directive.

#### International regulations

#### Stockholm Convention on Persistent Organic Pollutants (850/2004) Not listed.

International lists	Mixture
National inventory	
Australia	: Not determined.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: Not determined.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Turkey	: Not determined.
United States	: All components are listed or exempted.
15.2 Chemical safety assessment	: This product contains substances for which Chemical Safety Assessments are still required.

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Verv Persistent and Verv Bioaccumulative

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

Classification	Justification
Not classified.	

#### Full text of abbreviated H statements

Not applicable.

#### Full text of classifications [CLP/GHS]

Date of issue/Date of revision	
Date of previous issue	

Central Heating Boiler Noise Silencer F2

## **SECTION 16: Other information**

Not applicable.

Date of printing	: 24/11/2018
Date of issue/ Date of revision	: 14/10/2017
Date of previous issue	: 14/10/2017
Version	: 3.1
Notice to reader	

#### Notice to reader

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