

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

# SAFETY DATA SHEET

HP-15C 20L It 1c/2d/3b

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

1.1	Product ident	ifier
Pr	roduct name	

: HP-15C 20L lt 1c/2d/3b

- Product code : 62546
- Product type

: Liquid.

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

Identified uses		
Consumer applications, Professional applications.		
Material uses		
Heat-transfer medium.		
Uses advised against		
Not applicable.		

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

e-mail address of person : Europeanregulatory@macdermid.com responsible for this SDS

Alpha Assembly Solutions Germany GmbH Elisabeth-Selbert-Straße 4, 40764 Langenfeld, Germany.	Fernox UK Ltd. 2 Genesis Business Park, Albert Drive, Sheerwater, Surrey, Woking GU21 5RW. United Kingdom.	MacDermid Alpha Hungary Kft. 2330 Dunaharaszti, Jedlik Ányos utca 2., Hungary.
Tel: +49 21738490313	Tel: +44 (0) 330 100 7750	Tel: +36 24 506 110
E-Mail: europeanregulatory@macderr	nid.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			

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### **SECTION 2: Hazards identification**

2.1 Classification of the subs	ice or mixture				
Product definition : Mixture					
Classification according to Not classified.	gulation (EC) No. 1272/2008 [CLP/GHS] *				
The product is not classified a	azardous according to Regulation (EC) 1272/2008 as amended.				
See Section 11 for more deta	l 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					
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. Safety data sheet available on request.	у			
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.				
2.3 Other hazards					
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	а			
Other hazards which do not result in classification	None known.				

## **SECTION 3: Composition/information on ingredients**

3.2 Mixtures :	Mixture	1	1	T
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	≥90	Not classified.	[2]
1,2-benzisothiazol-3(2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.05 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H40 (M=1) Aquatic Chronic 1, H410 (M=1) (*) See full text of phrases in section 1		

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.

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# **SECTION 3: Composition/information on ingredients**

### Type

[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

[6] Additional disclosure due to company policy

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

### SECTION 4: First aid measures

### 4.1 Description of first aid measures

Eye contact	<ul> <li>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.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
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	1	No known significant effects or critical hazards.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	1	No known significant effects or critical hazards.
Ingestion	1	No known significant effects or critical hazards.

<b>Over-exposure</b>	signs/s	ymptoms

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
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 from the substance or mixture

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

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Hazards from the substance or mixture	i fire or if heated, a pres	sure increase will occur and the container may burst.
Hazardous combustion products	composition products m bon dioxide bon monoxide	ay include the following materials:
5.3 Advice for firefighters		
Special protective actions for fire-fighters		by removing all persons from the vicinity of the incident if nall be taken involving any personal risk or without
Special protective equipment for fire-fighters	athing apparatus (SCB/ de. Clothing for fire-figh	ppropriate protective equipment and self-contained A) with a full face-piece operated in positive pressure nters (including helmets, protective boots and gloves) andard EN 469 will provide a basic level of protection for

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	ote	ctive 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	со	entainment 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.

### **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.		
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### SECTION 7: Handling and storage

#### 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. See Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s)

Consumer applications, Professional applications.

Heat-transfer medium.

### 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
procedures 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	propane-1,2-diol		TWA: 10 mg/m³ 8 hours. Form: Particulate TWA: 474 mg/m³ 8 hours. Form: Sum of vapour and particulates
	Recommended monitoring : procedures	atmosphere or h of the ventilation protective equip the following: E the assessment limit values and atmospheres - ( of exposure to c (Workplace atm for the measure documents for r	biological monitoring may be required to determine the effectiveness or other control measures and/or the necessity to use respiratory ment. Reference should be made to monitoring standards, such as uropean Standard EN 689 (Workplace atmospheres - Guidance for 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 ment of chemical agents) Reference to national guidance

#### **DNELs/DMELs**

No DNELs/DMELs available.

#### **PNECs**

No PNECs available

8.2 Exposure controls Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection measur	res	
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.

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

•	
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	<ul> <li>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.</li> </ul>
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 and chemical properties

<b>Appearance</b>
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<u>Appearance</u>		
Physical state	1	Liquid.
Colour	1	Red.
Odour	:	Testing not technically possible.
Odour threshold	:	Testing not technically possible.
рН	:	There are no data available on the mixture itself.
Melting point/freezing point	:	There are no data available on the mixture itself.
Initial boiling point and boiling range	:	100°C
Flash point	1	No specific data.
Evaporation rate	:	There are no data available on the mixture itself.
Flammability (solid, gas)	:	There are no data available on the mixture itself.
Upper/lower flammability or explosive limits	:	There are no data available on the mixture itself.
Vapour pressure	:	There are no data available on the mixture itself.
Vapour density	:	There are no data available on the mixture itself.
Density	:	There are no data available on the mixture itself.
Solubility(ies)	1	There are no data available on the mixture itself.
Partition coefficient: n-octanol/ water	:	There are no data available on the mixture itself.
Auto-ignition temperature	:	There are no data available on the mixture itself.
Decomposition temperature	:	There are no data available on the mixture itself.
Viscosity	:	There are no data available on the mixture itself.
Explosive properties	:	There are no data available on the mixture itself.
Oxidising properties	:	There are no data available on the mixture itself.

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

### 9.2 Other information

Solubility in water

: There are no data available on the mixture itself.

No additional information.

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

10.1 Reactivity	: Not available.
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	: 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

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
1,2-benzisothiazol-3(2H)- one	LD50 Oral	Rat	1020 mg/kg	-
Conclusion/Summary	There are no data available on	the mixture itself	f.	

### Acute toxicity estimates

Not available.

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
1,2-benzisothiazol-3(2H)-one	Skin - Mild irritant	Human	-	48 hours 5 %	-
Conclusion/Summary					
Skin	: There are no data available o	on the mixture i	tself.		
Eyes	: There are no data available o	on the mixture i	tself.		
Respiratory	: There are no data available o	on the mixture i	tself.		
Sensitisation					
<b>Conclusion/Summary</b>					
Skin	: There are no data available o	on the mixture i	tself.		
Respiratory	: There are no data available o	on the mixture i	tself.		
<u>Mutagenicity</u>					
<b>Conclusion/Summary</b>	: There are no data available o	on the mixture i	tself.		
<b>Carcinogenicity</b>					
<b>Conclusion/Summary</b>	: There are no data available o	on the mixture i	tself.		
Reproductive toxicity					
<b>Conclusion/Summary</b>	: There are no data available o	n the mixture i	tself.		
<b>Teratogenicity</b>					

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### **SECTION 11: Toxicological information**

**Conclusion/Summary** : There are no data available on the mixture itself. Specific target organ toxicity (single exposure) Not available. Specific target organ toxicity (repeated exposure) Not available. **Aspiration hazard** Not available. **Information on likely routes** : There are no data available on the mixture itself. of exposure Symptoms related to the physical, chemical and toxicological characteristics : No specific data. Eye contact Inhalation : No specific data. : No specific data. **Skin contact** : No specific data. Ingestion Delayed and immediate effects as well as chronic effects from short and long-term exposure Short term exposure **Potential immediate** : Not available. effects Potential delayed effects : Not available. Long term exposure **Potential immediate** : Not available. effects Potential delayed effects : Not available. Potential chronic health effects 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.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
		Daphnia - Daphnia magna Crustaceans - Ceriodaphnia dubia	48 hours 48 hours
	Acute LC50 167 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
Conclusion/Summary	: Not available.		

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#### **12.2 Persistence and degradability**

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### **SECTION 12: Ecological information**

Conclusion/Summary

: Not available.

### 12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil	
Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.
Mobility	: Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**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	<ul> <li>Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.</li> </ul>

#### European waste catalogue (EWC)

Waste code	Waste designation		
16 03 06	organic wastes other than those mentioned in 16 03 05		
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.		

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

	· · · · · · · · · · · · · · · · · · ·		
	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
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### **SECTION 14: Transport information**

14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No. Not a pollutant.	No.
Additional information	-	-	-

14.6 Special precautions for	:	Transport within user's premises: always transport in closed containers that are
user		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 IMO	
instruments	

### SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u> <u>Annex XIV - List of substances subject to authorisation</u>

#### 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

Other EU regulations

**Europe inventory** : Not determined.

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

This product is not controlled under the Seveso Directive.

EU - Restriction of Hazardous Substances Directive (RoHS)

Ingredient name	CAS no.	Status
Not listed.		

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

# 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 = Very Persistent and Very 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

H302		Harmful if swallowed.
H315		Causes skin irritation.
H317		May cause an allergic skin reaction.
H318		Causes serious eye damage.
H400		Very toxic to aquatic life.
H410		Very toxic to aquatic life with long lasting effects.
Full text of classifications	[CLP/GHS]	
Acute Tox. 4		ACUTE TOXICITY - Category 4
Aquatic Acute 1		SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1		LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Eye Dam. 1		SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Skin Irrit. 2		SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1		SKIN SENSITISATION - Category 1
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#### 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.

Date of previous issue

Fernox SDS CLP Europe