

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

SAFETY DATA SHEET

System Neutraliser 2 Litre

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

1.1	Produc	ct ide	ntifier

Product name

: System Neutraliser 2 Litre

- Product code : 62482
- 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		
Water-conditioning agent.		
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

40764 Langenfeld, S Germany. W		2330 Dunaharaszti, Jedlik Ányos utca 2., Hungary.
Геl: +49 21738490313 Т	Tel: +44 (0) 330 100 7750	Tel: +36 24 506 110

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 substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] * 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		
		No signal word
Signal word		No signal word.
Hazard statements	÷	No known significant effects or critical hazards.
Precautionary statements		
Prevention	:	Not applicable.
Response	1	Not applicable.
Storage	:	Not applicable.
Disposal	1	Not applicable.
Supplemental label elements	:	Not applicable.
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	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

to Regulation (EC) No. 1907/2006, Annex XIII

: Mixture

There are no 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.

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 symptor Potential acute health effe	ns and effects, both acute and delayed

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 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	Jse an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	None known.	
5.2 Special hazards arising	the substance or mixture	
Hazards from the substance or mixture	n a fire or if heated, a pressure increase will occur and the container may b	ourst.
Hazardous combustion products	Decomposition products may include the following materials: carbon dioxide carbon monoxide hitrogen 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 ir here is a fire. No action shall be taken involving any personal risk or withous uitable training.	
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contain preathing apparatus (SCBA) with a full face-piece operated in positive press mode. Clothing for fire-fighters (including helmets, protective boots and glo conforming to European standard EN 469 will provide a basic level of protect chemical incidents.	sure oves)

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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	co	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 Advice on general occupational hygiene	 Put on appropriate personal protective equipment (see Section 8). 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 between the following temperatures: 10 to 40°C (50 to 104°F). 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. Water-conditioning agent.

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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

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.

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 meas	<u>s</u>	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical product before eating, smoking and using the lavatory and at the end of the working Appropriate techniques should be used to remove potentially contaminated Wash contaminated clothing before reusing. Ensure that eyewash stations safety showers are close to the workstation location.) period. clothing.
Eye/face protection	Safety eyewear complying with an approved standard should be used when assessment indicates this is necessary to avoid exposure to liquid splashes gases or dusts. If contact is possible, the following protection should be wo unless the assessment indicates a higher degree of protection: safety glass side-shields.	s, mists, ern,
Skin protection		
Hand protection	Chemical-resistant, impervious gloves complying with an approved standar be worn at all times when handling chemical products if a risk assessment this is necessary.	
Body protection	Personal protective equipment for the body should be selected based on th being performed and the risks involved and should be approved by a special before handling this product.	
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 sho approved by a specialist before handling this product.	
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that me appropriate standard or certification. Respirators must be used according t respiratory protection program to ensure proper fitting, training, and other in aspects of use.	оа

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SECTION 8: Exposure controls/personal protection

Environmental exposure	: Emissions from ventilation or work process equipment should be checked to
controls	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 physica	l a	nd chemical properties
<u>Appearance</u>		
Physical state	1	Liquid. [Viscous liquid.]
Colour	:	Colourless to light yellow.
Odour	:	Ammoniacal. [Slight]
Odour threshold	1	There are no data available on the mixture itself.
рН	1	11 [Conc. (% w/w): 5%]
Melting point/freezing point	1	-5°C
Initial boiling point and boiling range	1	119°C
Flash point	:	No specific data.
Evaporation rate	1	There are no data available on the mixture itself.
Flammability (solid, gas)	1	There are no data available on the mixture itself.
Upper/lower flammability or explosive limits	1	Lower: 3.6% Upper: 7.2%
Vapour pressure	1	There are no data available on the mixture itself.
Vapour density	1	There are no data available on the mixture itself.
Density	:	1.12 g/cm³ [20°C]
Solubility(ies)	:	Easily soluble in the following materials: cold water.
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	1	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	1	There are no data available on the mixture itself.
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.
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SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

SECTION IT: TOXICOL	υį	yicai iniormation
11.1 Information on toxicolog	ic	al effects
Acute toxicity		
Conclusion/Summary	;	There are no data available on the mixture itself.
Acute toxicity estimates		
Not available.		
Irritation/Corrosion		
Conclusion/Summary		
Skin	:	There are no data available on the mixture itself.
Eyes	:	There are no data available on the mixture itself.
Respiratory	:	There are no data available on the mixture itself.
Sensitisation		
Conclusion/Summary		
Skin	:	There are no data available on the mixture itself.
Respiratory	:	There are no data available on the mixture itself.
<u>Mutagenicity</u>		
Conclusion/Summary	:	There are no data available on the mixture itself.
Carcinogenicity		
Conclusion/Summary	:	There are no data available on the mixture itself.
Reproductive toxicity		
Conclusion/Summary	:	There are no data available on the mixture itself.
Teratogenicity		
Conclusion/Summary	1	There are no data available on the mixture itself.
Specific target organ toxicity	<u>y (</u>	<u>single exposure)</u>
Not available.		
Specific target organ toxicity	<u>y (</u>	<u>repeated exposure)</u>
Not available.		
Aspiration hazard		
Not available.		
Not available.		
of exposure	ł	There are no data available on the mixture itself.
	sic	al, chemical and toxicological characteristics
Eye contact		No specific data.
Inhalation		No specific data.
Skin contact		No specific data.
Ingestion		No specific data.
Delayed and immediate effect	ts	as well as chronic effects from short and long-term exposure
Short term exposure		
Potential immediate	:	Not available.
effects		
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Short term exposure Potential immediate effects	: Not available.		
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SECTION 11: Toxicological information

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Potential delayed effects	: Not available.
Long term exposure	
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.
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	
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

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	Disposal of this p with the requiren and any regional recyclable produ	of waste should be avoided or minimised wherever possible. product, solutions and any by-products should at all times comply nents of environmental protection and waste disposal legislation I local authority requirements. Dispose of surplus and non- licts via a licensed waste disposal contractor. Waste should not be eated to the sewer unless fully compliant with the requirements of th jurisdiction.
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SECTION 13: Disposal considerations

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.
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	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 : **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.

: Not available. 14.7 Transport in bulk according to IMO instruments

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 **Other EU regulations** Date of issue/Date of revision : 15 Version :4 December 2020 Date of previous issue

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SECTION 15: Regulatory information

Europe inventory : All components are listed or exempted.

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	: All components are listed or exempted.
New Zealand	: All components are listed or exempted.
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	: Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

SECTION 16: Other information

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] 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

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

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SECTION 16:	Other	information
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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

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