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

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# SAFETY DATA SHEET

## YaraVita MANTRAC PRO

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

**1.1** Product identifier

Product name	
Product code	
Product type	

YaraVita MANTRAC PRO 2

PYP75M 2 liquid (Suspension) 2

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

Identified uses
Industrial distribution. Industrial USE to formulate chemical product mixtures. Professional formulation of fertiliser products. Professional USE as fertiliser at Farm - loading and spreading. Professional USE as fertiliser in Greenhouse. Professional USE as liquid fertiliser in open field (e.g. Fertigation).
Professional USE as fertiliser - maintenance of equipment.

Uses advised against

None identified. 100

Not available.

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

		Yara UK Limited
<u>Address</u>		
Street		Harvest House, Europarc
Postal code		DN37 9TZ
City		Grimsby, North East Lincolnshire
Country		United Kingdom
Telephone number		+44 (0) 1472 889250
Fax no.		+44 (0) 1472 889251
e-mail address of person responsible for this SDS	:	yarauk.hesq@yara.com

### 1.4 Emergency telephone number

### National advisory body/Poison :

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### **Center**

<u>Supplier</u> Emergency telephone number : (with hours of operation)

National Chemical Emergency Centre +44 (0) 1865 407333 (24h)

## **SECTION 2: Hazards identification**

2.1 Classification of the substand	ce o	r mixture.
Product definition	:	Mixture
Classification according to Regu	latio	on (EC) No. 1272/2008 [CLP/GHS]
Classification	:	Not classified.
The product is not classified as haz	ardo	ous according to Regulation (EC) 1272/2008 as amended.
2.2 Label elements		
Signal word	:	No signal word.
Hazard statements	:	Not applicable.
Precautionary statements		
General	:	Not applicable.
Supplemental label elements	:	Safety data sheet available on request.
EU Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirements		
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Other hazards which do not result in classification	:	None.

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

3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
manganese carbonate	RRN: Not available.	>= 50 - < 65	Not classified.	[2]

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	EC: 209-942-9 CAS : 598-62-9			
glycerol	RRN: 01-2119471987- 18 EC: 200-289-5 CAS : 56-81-5	>= 2.5 - < 3	Not classified.	[2]

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

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

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.

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

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

#### 4.1 Description of first aid measures

Eye contact	:	Rinse with plenty of running water. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	Avoid inhalation of vapor, spray or mist. If inhaled, remove to fresh air. Get medical attention if you feel unwell.
Skin contact	:	Wash with soap and water. Get medical attention if irritation develops.
Ingestion	:	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Get medical attention if adverse health effects persist or are severe.
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

Over-exposure signs/symptor Eye contact	<u>ns</u> :	No specific data.	
Inhalation	:	No specific data.	
Skin contact	:	No specific data.	
Ingestion	:	No specific data.	
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### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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 identified.

#### 5.2 Special hazards arising from 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: nitrogen oxides metal oxide/oxides ammonia Avoid breathing dusts, vapors or fumes from burning materials. In case of inhalation of decomposition products in a fire, symptoms may be delayed.
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.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep
		unnecessary and unprotected personnel from entering. Do not

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		touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
For emergency responders :	:	If specialized 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 spilled 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 materials for cont	itai	nment 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.
<u>6.4 Reference to other</u> : 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

Not for human or animal consumption.

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

Recommendations	: 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. Bund storage facilities to prevent soil and water pollution in the event of spillage.
7.3 Specific end use(s)	

Recommendations

: Not available.

# **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					
manganese carbonate	EH40/2005 WELs (2003-05-01)					
	TWA 0.5 mg/m3 (as Mn)					
	EU OEL (2017-02-21)					
	TWA 0.05 mg/m3 (as Mn) Form: Respirable fraction					
	TWA 0.2 mg/m3 (as Mn) Form: Inhalable fraction					
glycerol	EH40/2005 WELs (1997-01-01) Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used. For this substance the classification and labeling was introduced in the 29th Adaptation to Technical Progress of the European Community's Dangerous Substances Directive					
	TWA 10 mg/m3 Form: Mist					
Recommended monitoring procedures	<ul> <li>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.</li> <li>Reference should be made to monitoring standards, such as the following:</li> <li>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)</li> <li>European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents)</li> <li>European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents)</li> </ul>					
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Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### **DNELs/DMELs**

Product/ingredie nt name	Туре	Exposure	Value	Population	Effects
manganese carbonate	DNEL	Long term Dermal	0.004 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.2 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	0.002 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	0.043 mg/m <sup>3</sup>	Consumers	Systemic

### **PNECs**

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
manganese carbonate	PNEC	Fresh water	0.0084 mg/l	Assessment Factors
	PNEC	Marine water	0.0008 mg/l	Assessment Factors
	PNEC	Fresh water sediment	8.18 mg/kg dwt	Assessment Factors
	PNEC	Marine water sediment	0.81 mg/kg dwt	Assessment Factors
	PNEC	Soil	8.15 mg/kg dwt	Assessment Factors
	PNEC	Sewage Treatment Plant	100 mg/l	Assessment Factors

#### 8.2 Exposure controls

Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection measures Hygiene measures	:	A washing facility or water for eye and skin cleaning purposes should be present. 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. Wash contaminated clothing before reusing.
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.
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. For general applications, we recommend gloves with a thickness typically greater than 0.35 mm. It should be emphasized that glove thickness is not necessarily a good predictor of glove resistance to a
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		specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved.
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	:	In case of inadequate ventilation wear respiratory protection.
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.
Personal protective equipment		1 m

Personal protective equipment (Pictograms)



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

## 9.1 Information on basic physical and chemical properties

<u>Appearance</u> Physical state Color Odor Odor threshold pH		liquid (Suspension) Pink, Odorless. Not determined. 9 [Conc. (% w/w): 100 g/l]
Melting point/freezing point	:	-5 °C
Initial boiling point and boiling range	:	100 °C
Flash point Evaporation rate Flammability (solid, gas)	:	Not determined Not determined Non-flammable.
Upper/lower flammability or explosive limits Vapor pressure Vapor density Relative density	:	Lower: Not determined Upper: Not determined Not determined Not determined Not applicable.
explosive limits Vapor pressure Vapor density	:	<b>Upper:</b> Not determined Not determined Not determined
explosive limits Vapor pressure Vapor density Relative density	:	<b>Upper:</b> Not determined Not determined Not determined Not applicable.
explosive limits Vapor pressure Vapor density Relative density Bulk density Density		Upper: Not determined Not determined Not determined Not applicable. Not applicable. 1.827 g/cm3

Partition coefficient: n- octanol/water	:	Not determined
Auto-ignition temperature Viscosity	:	Not determined <b>Dynamic:</b> 1,500 - 2,500 mPa.s
		Kinematic:Not determined
Explosive properties Oxidizing properties	:	Non-explosive. None

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	:	Avoid contamination by any source including metals, dust and organic materials.
10.5 Incompatible materials	:	Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride.
10.6 <u>Hazardous</u> 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/ingredie	Method		Species	Result	Exposure	References
nt name						
manganese carbon	ate				·	·
	OECD 420		Rat	> 5,000 mg/kg	Not	CSR
	LD50 Oral				applicable.	
glycerol						
	LD50 Oral		Rat	12,600 mg/kg	Not	ENTOX* -
					applicable.	,449,2005
Conclusion/Summ	nary	: No known significant effects or critical hazards.				ds.
Irritation/Corrosion						
Conclusion/Summ	nary					
Skin			No known significant effects or critical hazards.			
Eyes		÷.,	: No known significant effects or critical hazards.			
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Respiratory	:	No known significant effects or critical hazards.	
<u>Sensitization</u>			
Conclusion/Summary Skin Respiratory	:	No known significant effects or critical hazards. No known significant effects or critical hazards.	
Mutagenicity			
Conclusion/Summary	:	No known significant effects or critical hazards.	
<b>Carcinogenicity</b>			
Conclusion/Summary	:	No known significant effects or critical hazards.	
Reproductive toxicity			
Conclusion/Summary	:	No known significant effects or critical hazards.	
Information on the likely routes of exposure	:	Not available.	
Potential acute health effects			
Inhalation	:	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.	
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 physic	al, c	hemical and toxicological characteristics	
Inhalation	:	No specific data.	
Ingestion	:	No specific data.	
Skin contact	:	No specific data.	
Eye contact	:	No specific data.	
Delayed and immediate effects and also chronic effects from short and long term exposure			
<u>Short term exposure</u> Potential immediate effects	:	No known significant effects or critical hazards.	
Potential delayed effects	:	No known significant effects or critical hazards.	
Long term exposure Potential immediate effects			
	-	No known significant effects or critical hazards.	
Potential delayed effects	:	No known significant effects or critical hazards. No known significant effects or critical hazards.	

Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Effects on or via lactation	:	No known significant effects or critical hazards.
Other effects	:	No known significant effects or critical hazards.
Other information	:	Not available.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingred ient name	Method	Species	Result	Exposure	References
glycerol					
	Acute LC50 Fresh water	Rainbow trout,donaldso n trout	54,000 mg/l	4 d	Resour.Publ.N o.160, U.S.Dep.Interi or, Fish Wildl.Serv., Washington, DC :505 p. (USGS Data File)

Conclusion/Summary

: No known significant effects or critical hazards.

### **12.2** Persistence and degradability

Conclusion/Summary

: No known significant effects or critical hazards.

### **12.3** Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
glycerol	-1.76	Not applicable.	

Conclusion/Summary

: No known significant effects or critical hazards.

### 12.4 Mobility in soil

Soil/water partition coefficient	:	Not available.
(KOC) Mobility		Not available.

### 12.5 Results of PBT and vPvB assessment

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 minimized 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
06 03 14		solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
Packaging		·
Methods of disposal	whei Incin	generation of waste should be avoided or minimized rever possible. Waste packaging should be recycled. eration or landfill should only be considered when cling is not feasible.
Special precautions	safe Emp resic Avoi	material and its container must be disposed of in a way. ty containers or liners may retain some product lues. d dispersal of spilled material and runoff and contact soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

Regulation: ADR/RID	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information	

Regulation: ADN		
14.1 UN number	Not regulated.	
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14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information	
<u>Danger code</u>	: Not applicable.

Regulation: IMDG	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information	
Marine pollutant	: No.
_	

Regulation: IATA	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information <u>Marine pollutant</u>	: No.

14.6 Special precautions for	
user	

: Transport within user's premises: Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

Not available.

14.8 IMSBC

: Not applicable.

## **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 authorization Annex XIV: None of the components are listed.

Substances of very high concern: None of the components are listed.

EU Regulation (EC) No.	1	Not applicable.
1907/2006 (REACH) Annex XVII		
- Restrictions on the		

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<u>manufacture, placing on the</u> <u>market and use of certain</u> <u>dangerous substances,</u> <u>mixtures and articles</u>		
Other EU regulations Ozone depleting substances (1 None of the components are liste		<u>/2009/EU)</u>
Prior Informed Consent (PIC) (6 None of the components are liste		<u>2012/EU)</u>
Seveso Directive This product is not controlled und	der t	he Seveso Directive.
National regulations		
Biocidal products regulation	:	Not applicable.
Notes	:	To our knowledge no other country or state specific regulations are applicable.
<u>15.2 Chemical Safety</u> <u>Assessment</u>	:	Complete.

# **SECTION 16: Other information**

Abbreviations and acronyms :	ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level DMEL = Derived Minimal Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative bw = Body weight
Key data sources :	EU REACH IUCLID5 CSR. National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical Substances. Sphera Solutions Inc., 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada. Regulation (EC) No 1272/2008 Annex VI.

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

	Justification
Not classified. Calcula	tion method

### Full text of abbreviated H statements

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Not applicable.

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

Not applicable.

Revision comments	:	The following sections contain new and updated information: 9.
Date of printing	1	27.04.2020
Date of issue/ Date of revision	1	16.08.2019
Date of previous issue	:	11.01.2017
Version	:	3.0
Prepared by	:	Yara Chemical Compliance (YCC).
Indicates information that has changed from previously issued version.		

#### Notice to reader

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein, since all materials may represent unknown hazards and should be used with caution. Final determination of the suitability of any material is the sole responsibility of the user.