

SAFETY DATA SHEET

according to Regulation (EU) 2020/878

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Revision

Bio 20

		Revision	9
		Revision date	2023-05-17
SECTION 1: Identification of the substa	ance/mixture and of the company/undertaking		
1.1. Product identifier			
Product name	Bio 20		
Other means of identification /	N110-U0WX-E00R-MA8A.		
UFI			
1.2. Relevant identified uses of the substant	ce or mixture and uses advised against		
Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services,		
	craftsmen); [SU1] Agriculture, forestry, fishery; [PC12] Fertilizers;		
Description	Fertiliser.		
1.3. Details of the supplier of the safety data	a sheet		
Company	Omex Agriculture Ltd		
Address	Bardney Airfield		
	Tupholme		
	Lincoln		
	LN3 5TP		
	United Kingdom		
Web	www.omex.co.uk		
Telephone	01526 396000		
Fax	01526 396001		
Email	enquire@omex.com		
Email address of the	Safety@omex.com		
competent person			
1.4. Emergency telephone number			
Emergency telephone number	+44 (0) 1553817500		
SECTION 2: Hazards identification			
2.1. Classification of the substance or mixtu	re		
2.1.2. Classification - EC	Eye Irrit. 2: H319;		
1272/2008			
2.2. Label elements			
Hazard pictograms			
Signal Word	Warning		
Hazard Statement	Eye Irrit. 2: H319 - Causes serious eye irritation.		
Precautionary Statement:	P264 - Wash thoroughly after handling.		
Prevention	P280 - Wear protective gloves/protective clothing/eye protection/face protection.		



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2.2. Label elements			
Precautionary Statement:	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact		
Response	lenses, if present and easy to do. Continue rinsing.		
	P337+P313 - If eye irritation persists: Get medical advice/attention.		
2.3. Other hazards			
Other hazards	None known.		
Further information			
	This product has been independently tested in accordance with the protocols set out under EU		
	Regulation (EC) 440/2008: A.21 - Oxidising Properties (Liquids) and is not Classified as an		
	Oxidising Liquid (GLP3016012417R1/2022).		
SECTION 3: Composition/information	SECTION 3: Composition/information on ingredients		

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration	Conc.	Classification
				Number	(%w/w)	
Potassium Nitrate		7757-79-1	231-818-8	01-2119488224-35	20 - 30%	6 Ox. Sol. 3: H272;
				01-2119488224-35		
				01-2119488224-35		
Ammonium Nitrate		6484-52-2	229-347-8	01-2119490981-27	10 - 20%	6 Ox. Sol. 3: H272; Eye Irrit. 2:
						H319;
Magnesium Nitrate Hexahydrate		13446-18-9	233-826-7	01-2119491164-38	1 - 10%	5 Eye Irrit. 2: H319;
Sodium metabisulphite (Disodium	016-063-00-2	7681-57-4	231-673-0	01-2119531326-45	0 - 0.5%	6 Acute Tox. 4: H302; Eye
disulphite)						Dam. 1: H318;

SECTION 4: First aid measures

4.1. Description of first aid measures

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Inhalation	Move the exposed person to fresh air.	
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open.	
Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing.	
Ingestion	DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Never give anything by mouth to an	
	unconscious person.	
4.2. Most important symptoms and effects,	both acute and delayed	
Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.	
Eye contact	Causes serious eye irritation.	
Skin contact	May cause irritation to skin.	
Ingestion	May cause irritation to mucous membranes. Ingestion may cause nausea and vomiting.	
4.3. Indication of any immediate medical at	tention and special treatment needed	
Inhalation	Seek medical attention if irritation or symptoms persist.	
Eye contact	Seek medical attention.	
Skin contact	Seek medical attention if irritation or symptoms persist.	
Ingestion	DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.	
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
	Use extinguishing media appropriate to the surrounding fire conditions.	
5.2. Special hazards arising from the subst	ance or mixture	
	Burning produces irritating, toxic and obnoxious fumes.	

5.3. Advice for firefighters



5.3. Advice for firefighters		
	Wear suitable respiratory equipment when necessary. Cool fire exposed containers with waterspray.	
SECTION 6: Accidental release measu		
6.1. Personal precautions, protective equipr	nent and emergency procedures	
	Ensure adequate ventilation of the working area. Wear suitable protective equipment.	
6.2. Environmental precautions		
	Do not allow product to enter drains. Prevent further spillage if safe.	
6.3. Methods and material for containment a	and cleaning up	
	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for	
	disposal. Clean spillage area thoroughly with plenty of water.	
6.4. Reference to other sections		
	See section 2, 8, 13 for further information.	
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best	
	Manual Handling considerations when handling, carrying and dispensing.	
7.2. Conditions for safe storage, including a	ny incompatibilities	
	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled	
	containers.	
7.3. Specific end use(s)		
	See section 1.2 for further information.	
SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
	Occupational exposure controls.	
8.1.1. Exposure Limit Values		



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3.1.1. Exposure Limit Values			
Cobalt disodium athylenediaminetetraacetate	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3:	0.1
Cobalt EDTA)			
obult LD I'ry	WEL 15 min limit ppm:	WEL 15 min limit mg/m3:	
	WEL 8-hr limit mg/m3 total	- WEL 15 min limit mg/m3 total	
	inhalable dust:	- WEL 19 min initia mg/m3 total inhalable dust:	-
	WEL 8-hr limit mg/m3 total	- WEL 15 min limit mg/m3 total	_
	respirable dust:	respirable dust:	
opper EDTA	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3:	
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3:	
	WEL 8-hr limit mg/m3 total	1 WEL 15 min limit mg/m3 total	2
	inhalable dust:	inhalable dust:	
	WEL 8-hr limit mg/m3 total	WEL 15 min limit mg/m3 total	
	respirable dust:	respirable dust:	
otassium Nitrate	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3:	
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3:	
	WEL 8-hr limit mg/m3 total	- WEL 15 min limit mg/m3 total	-
	inhalable dust:	inhalable dust:	
	WEL 8-hr limit mg/m3 total	- WEL 15 min limit mg/m3 total	-
	respirable dust:	respirable dust:	
odium metabisulphite	WEL 8-hr limit ppm:	- WEL 8-hr limit mg/m3:	5
Disodium disulphite)			
	WEL 15 min limit ppm:	- WEL 15 min limit mg/m3:	-
	WEL 8-hr limit mg/m3 total	- WEL 15 min limit mg/m3 total	-
	inhalable dust:	inhalable dust:	
	WEL 8-hr limit mg/m3 total	-	-
	respirable dust:	respirable dust:	
odium Molybdate	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3:	5 As Mo
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3:	
	WEL 8-hr limit mg/m3 total	- WEL 15 min limit mg/m3 total	-
	inhalable dust:	inhalable dust:	
	WEL 8-hr limit mg/m3 total	- WEL 15 min limit mg/m3 total	-
	respirable dust:	respirable dust:	
inc disodium	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3:	10
thylenediaminetetraacetate			
Zinc EDTA)	JAREL AR Solution 11 14		2
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3:	3
	WEL 8-hr limit mg/m3 total	- WEL 15 min limit mg/m3 total	-
	inhalable dust:	inhalable dust:	
	WEL 8-hr limit mg/m3 total	- WEL 15 min limit mg/m3 total	-
	respirable dust:	respirable dust:	

DNEL: Derived no-effect level.

Exposure Pattern - Workers		
Copper EDTA	Long-term - inhalation - Systemic 1.8 mg/m ³	
	effects	
	Long-term - dermal - Systemic 3750 mg/kg	
	effects	
Potassium Nitrate	Long-term - inhalation - Systemic 36.7 mg/kg	
	effects	
	Long-term - dermal - Systemic 20.8 mg/kg	
	effects	

Exposure Pattern - General population



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Exposure Pattern - General population

-1			
Copper EDTA	Long-term - inhalation - Systemic	0.45 mg/m ³	
	effects		
	Long-term - dermal - Systemic	1875 mg/kg	Long-term - oral - Systemic effects 0.375 mg/kg
	effects		
Potassium Nitrate	Long-term - inhalation - Systemic	10.9 mg/kg	
	effects		
	Long-term - dermal - Systemic	12.5 mg/kg	Long-term - oral - Systemic effects 12.5 mg/kg
	effects		

8.2. Exposure controls

8.2.1. Appropriate engineering	Ensure adequate ventilation of the working area.
controls	
8.2.2. Individual protection	Wear chemical protective clothing.
measures	
Eye / face protection	Approved safety goggles.
Skin protection -	Chemical resistant gloves (PVC).
Handprotection	
Respiratory protection	Wear:. Suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Green
Odour	Characteristic
Flammability (solid, gas)	Not applicable.
Density / Relative Density	1.5 - 1.54
pH	4.5 - 6.5
Autoignition temperature	Not applicable.
Oxidising properties	Non-Oxidiser (A.21- Oxidising Liquids Pass)
Explosive properties	Not applicable.
Vapour pressure	Not determined
Initial boiling point	Not determined
Melting point	Not determined
Odour threshold	Not relevant
Partition coefficient (P)	Not determined
Viscosity	Not determined
Relative Vapour Density	Not determined
Evaporation rate	Not determined
Freezing Point	Not determined
Fat Solubility	Not determined
Solubility	Soluble in water

9.2. Other information



9.2. Other information

Conductivity	Not relevant
VOC (Volatile organic	Not relevant
compounds)	
Specific gravity	1.5 - 1.54
Benzene Content	Not relevant
Lead content	Not relevant
Gas group	Not determined
Surface tension	Not determined

SECTION 10: Stability and reactivity

10.1. Reactivity	
	Stable under normal conditions.
10.2. Chemical stability	
	Stable under normal conditions.
10.3. Possibility of hazardous reactions	
	Strong acids and strong bases.
10.4. Conditions to avoid	
	Avoid sparks, flames, heat and sources of ignition.
10.5. Incompatible materials	
	Strong acids. Strong bases.
10.6. Hazardous decomposition products	
	Burning produces irritating, toxic and obnoxious fumes.

SECTION 11: Toxicological information

11.1 Information on hazard classes

Acute toxicity	Irritating to eyes.
Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin	No sensitizaton effects reported.
sensitisation	
Germ cell mutagenicity	No data is available on this product.
Carcinogenicity	No data is available on this product.
Reproductive toxicity	No data is available on this product.
STOT-single exposure	No data is available on this product.
STOT-repeated exposure	No data is available on this product.
Aspiration hazard	No data is available on this product.
Repeated or prolonged	Avoid prolonged or repeated exposure.
exposure	
11.1.4 Toxicological Information	

11.1.4. Toxicological Information



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11.1.4. Toxicological Information			
Ammonium Nitrate	Dermal Rat LD50:	2950 mg/kg	Oral Rat LD50: 2000 mg/kg
Cobalt disodium	Oral Rat LD50:	6671mg/kg	
ethylenediaminetetraacetate Copper EDTA	Oral Rat LD50:	1000 ma/ka	
Potassium Nitrate	Dermal Rat LD50:		Oral Rat LD50: >5000
	Inhalation Rat LC50/4 h:		
Sodium metabisulphite	Dermal Rat LD50:	2000 mg/kg	Oral Rat LD50: 1540 mg/kg
	Inhalation Rat LC50/4 h:	5.5 mg/L/4H	
Sodium Molybdate	Dermal Rat LD50:	2000mg/kg	Oral Rat LD50: 2000mg/kg
	Inhalation Rat LC50/4 h:	3.92mg/L	
Zinc disodium ethylenediaminetetraacetate	Inhalation Rat LC50/4 h:	2.75	Oral Rat LD50: 5000mg/kg
SECTION 12: Ecological information			
12.1. Toxicity			
	No data available		
12.2. Persistence and degradability	1		
	No data is available on this product.		
12.3. Bioaccumulative potential	1		
	No data is available on this product.		
12.4. Mobility in soil			
	No data is available on this product.		
12.5. Results of PBT and vPvB assessmer	t		
	No data is available on this product.		
12.6 Endocrine disrupting properties			
	No data is available on this product.		
SECTION 13: Disposal considerations	3		
13.1. Waste treatment methods			
	This material and its container must be d	isposed of in a safe way.	
General information			
	Contact a licensed waste disposal compa	201/	
		arry.	
Disposal methods			
	Do not empty into drains; dispose of this	material and its container in a safe way.	
Disposal of packaging	1		
	Do NOT reuse empty containers. This ma	aterial and its container must be disposed of in a safe	
	way.		
SECTION 14: Transport information			
14.1. UN number			
	The product is not classified as dangerou	us for carriage.	
14.2. UN proper shipping name	1 F	- - -	
	The conduct is the 10 states in		
	The product is not classified as dangerou	us for carriage.	
14.3. Transport hazard class(es)	1		
	The product is not classified as dangerou	us for carriage.	



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14.4. Packing group		
	The product is not classified as dangerous for carriage.	
14.5. Environmental hazards		
	The product is not classified as dangerous for carriage.	
14.6. Special precautions for user		
	The product is not classified as dangerous for carriage.	
14.7 Maritime Transport in bulk according to	14.7 Maritime Transport in bulk according to IMO instruments	
	The product is not classified as dangerous for carriage.	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture		
Regulations	COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No	

regulauons	COMMISSION REGULATION (E0) 2015/830 01 28 May 2015 amending Regulation (EC) No
	1907/2006 of the European Parliament and of the Council on the Registration, Evaluation,
	Authorisation and Restriction of Chemicals (REACH). COMMISSION REGULATION (EU) 2020/878
	of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament
	and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of
	Chemicals (REACH). REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND
	OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation
	and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending
	Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission
	Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives
	91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

15.2. Chemical safety assessment

No data is available on this product.

SECTION 16: Other information

Other information	
Revision	This document differs from the previous version in the following areas:.
	1 - Other means of identification / UFI.
	1 - Product Use.
	2 - Other hazards.
	2 - Further information.
	12 - 12.1. Toxicity.
	15 - Regulations.
	16 - Acronyms.
Acronyms	ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland
	Waterways;
	ADR - Agreement concerning the International Carriage of Dangerous Goods by Road;
	AIIC - Australian Inventory of Industrial Chemicals;
	ASTM -American Society for the Testing of Materials; bw - Body weight;
	CMR - Carcinogen, Mutagen or Reproductive Toxicant;
	DIN - Standard of the German Institute for Standardisation;
	DSL - Domestic Substances List (Canada);
	ECx - Concentration associated with x% response;
	ELx - Loading rate associated with x% response;
	EmS -Emergency Schedule;
	ENCS - Existing and New Chemical Substances (Japan);
	ErCx -Concentration associated with x% growth rate response;
	GHS - Globally Harmonized System;
	GLP - Good Laboratory Practice;
	IARC - International Agency for Research on Cancer;
	IATA - International Air Transport Association;
	IBC - International Code for the Construction and Equipment of Ships carrying Dangerous
	Chemicals in Bulk;

Other information		
	IC50 - Half maximal inhibitory concentration;	
	ICAO - International Civil Aviation Organization;	
	IECSC - Inventory of Existing Chemical Substances in China;	
	IMDG - International Maritime Dangerous Goods;	
	IMO - International Maritime Organization;	
	ISHL - Industrial Safety and Health Law (Japan);	
	ISO - International Organisation for Standardization;	
	KECI - Korea Existing Chemicals Inventory;	
	LC50 - Lethal Concentration to 50 % of a test population;	
	LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose);	
	MARPOL - International Convention for the Prevention of Pollution from Ships;	
	N.O.SNot Otherwise Specified;	
	NO(A)EC - No Observed (Adverse) Effect Concentration;	
	NO(A)EL - No Observed (Adverse) Effect Level;	
	NOELR - No Observable Effect Loading Rate;	
	NZIoC - New Zealand Inventory of Chemicals;	
	OECD - Organization for Economic Co-operation and Development;	
	OPPTS - Office of Chemical Safety and Pollution Prevention;	
	PBT - Persistent, Bioaccumulative and Toxic substance;	
	PICCS - Philippines Inventory of Chemicals and Chemical Substances;	
	(Q)SAR - (Quantitative) Structure Activity Relationship;	
	REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council	
	concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals;	
	RID - Regulations concerning the International Carriage of Dangerous Goods by Rail;	
	SADT - Self-Accelerating Decomposition Temperature;	
	SDS -Safety Data Sheet;	
	TCSI - Taiwan Chemical Substance Inventory;	
	TECI - Thailand Existing Chemicals Inventory;	
	TSCA - Toxic Substances Control Act (United States);	
	UN - United Nations;	
	UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods;	
	vPvB - Very Persistent and Very Bioaccumulative.	
Text of Hazard Statements in	Ox. Sol. 3: H272 - May intensify fire; oxidiser.	
Section 3	Eye Irrit. 2: H319 - Causes serious eye irritation.	
	EUH031 - Contact with acids liberates toxic gas.	
	Acute Tox. 4: H302 - Harmful if swallowed.	
	Eye Dam. 1: H318 - Causes serious eye damage.	
Further information		
	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use,	
	storage and handling of the product. This information is correct to the best of our knowledge and	
	belief at the date of publication however no guarantee is made to its accuracy. This information	
	relates only to the specific material designated and may not be valid for such material used in	
	combination with any other materials or in any other process.	

