SAFETY DATA SHEET COMPLEX 20-8-14 This safety data sheet complies with the requirements of: Regulation (EC) No. 453/2010 and Regulation (EC) No. 1272/2008



SDS # : 10250-A Revision date: 2018-07-20 Format: EU Version 1.02

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Code(s) 10250-A **COMPLEX 20-8-14 Product Name** 1.2. Relevant identified uses of the substance or mixture and uses advised against **Recommended Use:** A soluble fertilizer for use in agriculture and horticulture **Restrictions on use** Use as recommended by the label. 1.3. Details of the supplier of the safety data sheet Manufacturer FMC Agro Limited **Rectors Lane** Pentre Flintshire CH5 2DH United Kingdom Tel: + 44 (0) 1244 537370 E-mail: fmc.agro.uk@fmc.com For further information, please contact: Tel: +44(0)1244 537370 **Contact point** Email: fmc.agro.uk@fmc.com 1.4. Emergency telephone number **Emergency telephone** Tel: +44(0)1244 537370 (Office hours only)

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 (H315)
Serious eye damage/eye irritation	Category 2 (H319)

2.2. Label elements

Hazard pictograms



Signal Word WARNING

Hazard Statements

H315 - Causes skin irritation H319 - Causes serious eye irritation

Precautionary Statements

P264 - Wash hands thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P337 + P313 - If eye irritation persists: Get medical advice/attention

P362 - Take off contaminated clothing and wash before reuse

2.3. Other hazards

This product is not identified as a PBT/vPvB substance.
Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

The product is a mixture, not a substance.

3.2 Mixture containing the following hazardous ingredients:

Chemical name	EC-No	CAS-No	Weight percent	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
POTASSIUM NITRATE	231-818-8	7757-79-1	10-30	Ox. Sol. 3 (H272)	No data available
AMMONIUM NITRATE	299-347-8	6484-52-2	1-10	Ox. Sol. 3 (H272) Eye Irrit. 2 (H319)	01-2119490981-27- XXXX
POTASSIUM HYDROGENSULPHA TE	231-594-1	7646-93-7	1-10	Skin Corr. 1B (H314) STOT SE 3 (H335)	No data available
COPPER DISODIUM EDTA	237-864-5	14025-15-1	1-10	Acute Tox. 4 (H302) Eye Irrit. 2 (H319)	No data available
BORIC ACID, SODIUM SALT, PENTAHYDRATE	234-522-7	12046-75-2	<1	Repr. 2: H361d	01-2119970731-35- XXXX

Additional Information

For the full text of the H-, R- and EUH- phrases mentioned in this Section, see Section 16.

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

Eye Contact	Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Call a doctor if irritation persists.
Skin Contact	Immediately remove all stained or splashed clothing that is not adhering to the skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor if necessary.
Inhalation	Remove person from exposure ensuring one's own safety while doing so. Consult a doctor if necessary.
Ingestion	Rinse mouth. Do NOT induce vomiting. Call a doctor immediately.

4.2. Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Indication of immediate medical attention and special treatment needed, if necessary

Eye bathing equipment should be available on the premises.

Section 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Cool containers / tanks with water spray.

Unsuitable extinguishing media

No information available

5.2. Special hazards arising from the substance or mixture

Toxic fumes may be released in fire situations.

Hazardous Combustion Products Sulphur oxides, Nitrogen oxides (NOx).

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear. Wear protective clothing to prevent contact with skin and eyes.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions

For personal protection see section 8. Stop leak if you can do it without risk. In case of spill, avoid contact. Isolate area and keep out animals and unprotected persons. Keep people away from and upwind of spill/leak. Avoid dust formation.

For further clean-up instructions, call Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Do not release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for ContainmentPrevent further leakage or spillage if safe to do so.Methods for cleaning upSweep up or vacuum up spillage and collect in suitable container for disposal. Equipment
should contain high efficiency filter. Transfer to a closable, labeled salvage container for
disposal by an appropriate method. Refer to section 13 of SDS for suitable method of
disposal.

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling

Use only in area provided with appropriate exhaust ventilation. Avoid contact with skin, eyes and clothing. Avoid dust formation in confined areas.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Keep in a dry, cool and well-ventilated place. Keep away from direct sunlight. Keep container tightly closed. Keep out of reach of children and animals. Keep away from food, drink and animal feedingstuffs. Avoid contact with water or humidity.

7.3. Specific end use(s)

Specific Use(s)

No data available.

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

POTASSIUM NITRATE	$E = m \alpha / m^3 / \Omega$		The United Kingdom	France	Spain	Germany
	5 mg/m ³ (8hr TWA)		-	-	-	-
7757-79-1	(respirabl	e dust)				
Derived No Effect Level	(DNEL)	No info	rmation available.			
Predicted No Effect Con (PNEC)	centration	No info	rmation available.			
8.2. Exposure controls						
Engineering measures		Ensure	adequate ventilation,	especially in confine	ed areas.	
Personal protective e	quipment					
Eye/Face Protection	Tightly fitting safety goggles. Provide emergency on-site eyewash.					
Hand Protection	Protective gloves. Impervious butyl rubber gloves. Wear chemical protective gloves made of materials such as nitrile or neoprene.					
Skin and Body Prote	Wear protective gloves/clothing.					
Respiratory Protection The product is not likely to present an airborne exposure concern during norma but in the event of a discharge of the material which produces a heavy dust, wo put on officially approved face mask or respiratory protection.						
			o specific Member Sta mental legislation.	te legislation for req	uirements under Con	nmunity

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical a	
Physical State	Dry powder
Appearance	No information available
Odour	Barely perceptible
Colour	Blue
Odour threshold	No information available
рН	No information available
Melting point/freezing point	No information available
Boiling point/boiling range	No information available
Flash point	No information available
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit	No information available
Vapour pressure	No information available
Vapour density	No information available
Specific gravity	No information available
Water solubility	Soluble in water
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidising properties	No information available
9.2. Other information	
Softening point	No information available
Molecular weight	No information available
VOC content (%)	No information available

Molecular weight VOC content (%) Density Bulk density K_{st} No information available No information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

None under normal use conditions

10.2. Chemical stability

Stable under recommended storage conditions.

Explosion data Sensitivity to Mechanical Impact No information available. Sensitivity to Static Discharge No information available.

10.3. Possibility of hazardous reactions

Hazardous polymerisation

Hazardous polymerization does not occur.

Hazardous reactions

None under normal processing. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

Strong oxidising agents, Strong acids.

10.6. Hazardous decomposition products

May emit toxic fumes under fire conditions.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product Information

Chemical name	LD50 Oral	LD50 Dermal	Inhalation LC50			
POTASSIUM NITRATE	3750 mg/kg (Rat)					
	1901 mg/kg (Rabbit)					
AMMONIUM NITRATE	>5000 mg/kg (Rat)		> 88.8 mg/L (Rat)4 h			
POTASSIUM	= 2340 mg/kg (Rat)					
HYDROGENSULPHATE						
COPPER DISODIUM EDTA	890 mg/kg (rat)		>5.32 mg/kg (rat)			
BORIC ACID, SODIUM SALT,	2330 mg/kg (Rat)	>2000 mg/kg (Rabbit)	>2.03 mg/L (5hr) (Rat)			
PENTAHYDRATE						
Skin corrosion/irritation	No information available.					
Serious eye damage/eye irritat	ion No information available.					
Sensitisation	No information available					
Mutagenicity	No information available.					
Carcinogenicity	No information available.					
Reproductive toxicity STOT - single exposure STOT - repeated exposure	No information available. No information available. No information available.					
Symptoms	Skin contact: There may b	Skin contact: There may be irritation and redness at the site of contact.				
	Eye contact: There may be	Eye contact: There may be irritation and redness. The eyes may water profusely.				
		Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.				
	Inhalation: There may be i	ng of tightness in the chest.				
	Delayed / immediate effects: Immediate effects can be expected after short-term					
Aspiration hazard No information available.						

Section 12: ECOLOGICAL INFORMATION

Toxicity to fish

12.1. Toxicity

Chemical name

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			aquatic invertebrates
POTASSIUM NITRATE	-	96hr LC50: 180 mg/L	48hr EC50: 490 mg/L
AMMONIUM NITRATE	-	48 h LC50: 65 - 85 mg/L (Cyprinus	-
		carpio) semi-static	
BORIC ACID, SODIUM SALT,	(Agmenellum quadruplicatum)	(Pimephales promelas)	(Daphnia magna)
PENTAHYDRATE	10d NOEC >=100 mg.B/l	32d NOEC 11.2 mg.B/l	21d LOEC 56 mg.B/l
	(Pseudokirchneriella subcapitata)	(Pimephales promelas)	(Daphnia magna)
	72H EbC50 40 mg.B/l	96H LC50 79.7 mg.B/l	48H LC50 133 mg.B/l

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

Mobility in soil No information available.

Mobility Soluble in water.

12.5. Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Negligible

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues / unused products	Transfer to a suitable container and arrange for collection by specialised disposal company. Alternatively, the product can be incinerated, in accordance with local regulations. The diluted product and washings should be sent to a water treatment facility. Do not contaminate ponds, waterways or ditches with chemical or used containers. Do not discharge to sewer systems.			
Contaminated Packaging	Clean container with water. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of rinse water in accordance with local and national guidelines.			
EWC Waste Disposal No	02 01 08			
OTHER INFORMATION	NOTE : The user's attention is drawn to the possible existence of specific European, national or local regulations regarding disposal.			
Section 14: TRANSPORT INFORMATION				

NOTE

NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

IMDG/IMO 14.1 UN/ID no 14.2 Proper Shipping Name

Not regulated Not regulated

 14.3 Hazard class 14.4 Packing Group 14.5 Marine Pollutant 14.6 Special Provisions 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code 	Not regulated Not regulated Not applicable None The product is not transported in bulk tankers.
RID	
14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	None
ADR/RID	
14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	None
ΙCΑΟ/ΙΑΤΑ	
14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	None
- F	

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not Applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not Applicable

International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
POTASSIUM NITRATE 7757-79-1	X	Х	Х	Х	Х	Х	Х	Х
AMMONIUM NITRATE 6484-52-2	Х	Х	Х	Х	Х	Х	Х	Х
POTASSIUM								

HYDROGENSULPHATE 7646-93-7	Х	Х	Х	Х	Х	Х	Х	Х
COPPER DISODIUM EDTA 14025-15-1	X	Х	Х	X	Х	Х	X	Х

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of R-phrases referred to under sections 2 and 3 Not applicable

Full text of H-Statements referred to under sections 2 and 3

H272 - May intensify fire; oxidiser

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H361d - Suspected of damaging the unborn child

Legend

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	CAS (Chemical Abstracts Service)
Ceiling:	Maximum limit value:
DNEL:	Derived No Effect Level (DNEL)
EINECS:	EINECS (European Inventory of Existing Chemical Substances)
GHS:	Globally Harmonised System (GHS)
IATA:	International Air Transport Association (IATA)
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Dangerous Goods (IMDG)
LC50:	LC50 (lethal concentration)
LD50:	LD50 (lethal dose)
PBT:	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail
STEL:	Short term exposure limit
SVHC	SVHC: Substances of Very High Concern for Authorisation:
TWA:	time weighted average
vPvB:	very Persistent and very Bioaccumulative
Revision date:	2018-07-20
Reason for revision:	Format Change.

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Prepared By

FMC Corporation

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