SAFETY DATA SHEET

STAGE

This safety data sheet complies with the requirements of: Regulation (EC) No. 453/2010 and Regulation (EC) No. 1272/2008



SDS #: NP-0023-A

Revision date: 2020-01-06

Format: EU Version 1.05

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

Product Code(s) NP-0023-A

Product Name STAGE

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

Recommended Use: A fertilizer with micronutrients for use in agriculture and horticulture

Restrictions on useUse as recommended by the label.

1.3. Details of the supplier of the safety data sheet

<u>Manufacturer</u> FMC Agro Limited

Rectors Lane
Pentre
Flintshire
CH5 2DH
United Kingdom
Tel: + 44 1244 537370
E-mail: fmc.agro.uk@fmc.com

For further information, please contact:

Contact point Tel: +44(0) 1244 537370

Email: fmc.agro.uk@fmc.com

1.4. Emergency telephone number

Emergency telephone Medical emergencies:

Austria: +43 1 406 43 43 Belgium: +32 70 245 245 Bulgaria: +359 2 9154 409

Cyprus: 1401

Czech Republic: +420 224 919 293, +420 224 915 402

Denmark: +45 82 12 12 12 France: +33 (0) 1 45 42 59 59 Finland: +358 9 471 977 Greece: 30 210 77 93 777 Hungary: +36 80 20 11 99

Ireland (Republic): +352 1 809 2166

Italy: +39 02 6610 1029

Lithuania: +370 523 62052, +370 687 53378

Luxembourg: +352 8002 5500 Netherlands: +31 30 274 88 88 Norway: +47 22 591300

Poland: +48 22 619 66 54, +48 22 619 08 97

Portugal: 800 250 250 (in Portugal only), +351 21 330 3284

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Romania: +40 21318 3606 Slovakia: +421 2 54 77 4 166 Slovenia: +386 41 650 500 Spain: +34 91 562 04 20 Sweden: +46 08-331231112

Switzerland: 145

United Kingdom: 0870 600 6266 (in the UK only)

U.S.A. & Canada: +1 800 / 331-3148

All other countries: +1 651 / 632-6793 (Collect)

Section 2: HAZARDS IDENTIFICATION

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

Acute toxicity - Oral	Category 4 (H302)
Skin corrosion/irritation	Category 1 Sub-category C (H314)
Specific target organ toxicity — repeated exposure	Category 2 (H373)
Chronic aquatic toxicity	Category 3 (H412)

2.2. Label elements





Signal Word Danger

Hazard Statements

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H373 - May cause damage to organs through prolonged or repeated exposure

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements

P260 - Do not breathe spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor

P303 + P361 + P353 - IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P501 - Dispose of contents/container to hazardous or special waste collection point.

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	Classification according to	REACH
			_	Regulation (EC) No. 1272/2008	registration

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			percent	[CLP]	number
MANGANESE DINITRATE	233-828-8	10377-66-9	30-60	Ox. Sol. 2 (H272); Acute Tox. 4 (H302); Skin Corr. 1C (H314); STOT RE 2 (H373); Aquatic Chronic 3 (H412); (EUH071)	01-2119487993-17- 0002

Additional Information

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

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Transfer to hospital for specialist examination.

Skin Contact Immediately remove all stained or splashed clothing that is not adhering to the skin. Wash

off immediately with plenty of water for at least 15 minutes. Transfer to hospital if there are

burns or symptoms of poisoning.

Inhalation Remove person from exposure ensuring one's own safety while doing so.

Ingestion Rinse mouth. Do not induce vomiting. If conscious, give 2 glasses of water. Get immediate

medical attention.

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. Show this safety data sheet to the doctor in attendance.

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.

5.3. Advice for firefighters

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As in any fire, wear self-contained breathing apparatus and full protective gear. Wear protective clothing to prevent contact with skin and eyes. Contaminated fire extinguishing water should not be discharged into drains, if preventable.

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. In the case of large spills (1 ton or more), alert the appropriate authorities.

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 discharge into drains or rivers. Contain the spillage using bunding. Accidental release into water courses must be alerted to the appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for Containment Surface drains within close vicinity of the spill should be covered. Dike to confine spill and

absorb with non-combustible absorbent such as clay, sand or soil.

Contain and collect spillage with non-combustible absorbent material. (e.g. sand. earth. Methods for cleaning up

diatomaceous earth, vermiculite) and place in container for disposal according to

local/national regulations (see Section 13).

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.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Protect from freezing. Store above 5°C. Keep in a dry, cool and well-ventilated place. Keep away from direct sunlight. Keep away from heat. Keep out of reach of children and animals. Keep away from food, drink and animal feedingstuffs.

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

Derived No Effect Level (DNEL) No information available.

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Predicted No Effect Concentration No information available.

(PNEC)

8.2. Exposure controls

Ensure adequate ventilation, especially in confined areas. **Engineering measures**

Personal protective equipment

Safety glasses with side-shields. Provide emergency on-site eyewash. **Eye/Face Protection**

Hand Protection Gloves (acid resistant).

Skin and Body Protection Wear impervious gloves and/or clothing if needed to prevent contact with the material.

Not required under normal use. **Respiratory Protection**

Environmental exposure controls Refer to specific Member State legislation for requirements under Community

environmental legislation.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State Liquid

Appearance Liquid suspension Characteristic Odour Colour Orange Red

Odour threshold No information available

Ha

No information available Melting point/freezing point Boiling point/boiling range No information available Flash point No information available **Evaporation Rate** No information available

Flammability (solid, gas) 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 1.41 - 1.45 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 No information available Viscosity, dynamic **Explosive properties** No information available **Oxidising properties** Non-oxidizing (by EC criteria)

9.2. Other information

Softening point No information available Molecular weight No information available VOC content (%) No information available Density No information available No information available **Bulk density** No information available Kst

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

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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 bases, Strong reducing agents.

10.6. Hazardous decomposition products

Nitrogen oxides (NOx), May emit toxic fumes under fire conditions.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

LD50 Oral 1438 mg/kg (rat) (Calculated Estimated Acute Toxicity - EAT)

Skin corrosion/irritation
Serious eye damage/eye irritation
Sensitisation
Mutagenicity
Carcinogenicity

No information available.
No information available.
No information available.
No information available.

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

Symptoms 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.

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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.

Aspiration hazard No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

There is no data available for this product.

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

Harmful to aquatic life

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. Do not contaminate ponds, waterways or ditches with chemical or used containers. Do not

discharge to sewer systems.

Contaminated Packaging Clean container with water. Dispose of rinse water in accordance with local and national

guidelines. Empty containers should be taken to an approved waste handling site for

recycling or disposal.

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

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IMDG/IMO

14.1 UN/ID no UN1760

14.2 Proper Shipping Name CORROSIVE LIQUID, N.O.S. (MANGANESE DINITRATE)

14.3 Hazard class 8
14.4 Packing Group III

14.5 Marine Pollutant Not applicable

14.6 Special Provisions None

14.7 Transport in bulk according to This product is not transported in bulk containers.

Annex II of MARPOL and the IBC

Code

RID

14.1 UN/ID no UN1760

14.2 Proper Shipping Name CORROSIVE LIQUID, N.O.S. (MANGANESE DINITRATE)

14.3 Hazard class 8 **14.4 Packing Group** III

14.5 Environmental Hazard Not applicable

14.6 Special Provisions None

ADR/RID

14.1 UN/ID no UN1760

14.2 Proper Shipping Name CORROSIVE LIQUID, N.O.S. (MANGANESE DINITRATE)

14.3 Hazard class 8
14.4 Packing Group III

14.5 Environmental Hazard Not applicable

14.6 Special Provisions None

ICAO/IATA

14.1 UN/ID no UN1760

14.2 Proper Shipping Name CORROSIVE LIQUID, N.O.S. (MANGANESE DINITRATE)

14.3 Hazard class 8
14.4 Packing Group III

14.5 Environmental Hazard Not applicable

14.6 Special Provisions None

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	DSL	EINECS/ELINC	ENCS	China	KECL (Korea)	PICCS	AICS
	(United	(Canada)	S (Europe)	(Japan)	(IECSC)		(Philippines)	(Australia)
	States)	,	` '		`		` ' '	1

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MANGANESE DINITRATE	Х	Х	Х	Х	Х	Х	Х	Х
10377-66-9								

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 H-Statements referred to under sections 2 and 3

EUH071 - Corrosive to the respiratory tract

H272 - May intensify fire; oxidiser

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H373 - May cause damage to organs through prolonged or repeated exposure

H412 - Harmful to aquatic life with long lasting effects

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 (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: Substances of Very High Concern for Authorisation:

TWA: time weighted average

vPvB: very Persistent and very Bioaccumulative

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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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End of Safety Data Sheet