NK 7-0-14+4%Fe+Seaweed+Zeolite Micro Granular

Issue Date: 08-Mar-23
Revision Date: 08-Mar-23
Revision Number: 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

1.1 Name of Product

NK 7-0-14+4%Fe+Seaweed+Zeolite Micro Granular

1.2 Use of the Substance/Preparation

Fertiliser

1.3 Manufacturer/Distributor

Thomas Elliott (Fertilisers)
Selby Place
Stanley Industrial Estate
Skelmersdale
WN8 8EF
Tel: 01695 51875
Email: info@thomas-elliott.co.uk

1.4 Emergency Contact

Tel: 01695 51875 (Office Hours)

2. HAZARDS IDENTIFICATION

2.1 Classification

Classification according to Directive EC 1272/2008 Classification, Labelling and Packaging.

Physical hazards

Not Classified

Health hazards

Acute Tox. 4 – H302
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319

Environmental hazards

Not Classified

2.2 Label elements

Pictogram

Signal Word

Warning

Hazard statements

EUH208 Contains 2,4-D (ISO), nickel sulfate. May produce an allergic reaction.
H302 Acute toxicity
H315 Causes skin irritation

H319 Causes serious eye irritation

Precautionary statements
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.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330 Rinse mouth.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P331 Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of water.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Mixture not classed as PBT or vPvB.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Compound fertiliser containing 7% nitrogen, 14% potassium oxide, 4% iron, seaweed, zeolite

Ingredient	CAS/EINECS	Classification	% w/w
Iron (II) Sulphate	7720-78-7	Acute Tox. 4 – H302 Eye Irrit. 2 - H319 Skin Irrit. 2 - H315	10-30%
Nickel Sulphate	7786-81-4	M factor (Acute) = 1 M factor (Chronic) = 1 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Acute Tox. 4 - H332 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 1A - H350i Repr. 1B - H360D STOT RE 1 - H372 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	<1%

The full text for all Hazard Statements are displayed in Section 16

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

Eye contact – Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 10 minutes. Get medical attention if symptoms are severe or persist after washing.
Skin contact – Wash skin thoroughly with soap and water or use an approved skin cleanser. Get medical attention if symptoms are severe or persist after washing.
Ingestion – Get medical attention if symptoms are severe or persist.
Inhalation – Get medical attention if symptoms are severe or persist.

4.2 Most important symptoms and effects, both acute and delayed

Eye Contact: Prolonged or repeated exposure may cause severe irritation. May cause severe eye irritation.

Skin Contact: Repeated and/or prolonged contact may cause irritation.
Ingestion: Based on components, product is considered to present little hazard by oral exposure.
Inhalation: Unlikely to cause harmful effects under normal handling and use.

4.3 Indication of immediate medical attention and special treatment needed

Notes for the doctor: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Non flammable

5.1 Extinguishing Media

The mixture is not classified as flammable. As such extinguishing media appropriate for surrounding materials should be chosen.

5.2 Special hazards arising from substance or mixture

None known.

5.3 Advice for firefighters

Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.
Use protective equipment appropriate for surrounding materials. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

Avoid inhalation of dust and contact with skin and eyes. Use suitable respiratory protection if ventilation is inadequate. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Take care as floors and other surfaces may become slippery.

6.2 Environmental precautions

The product is slowly degradable. The product is not expected to be hazardous to the environment. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3 Methods and material for containment and cleaning up:

Take care as floors and other surfaces may become slippery. Avoid generation and spreading of dust. Collect spillage with a shovel and broom, or similar and reuse, if possible. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Dispose of contents/container in accordance with national regulations. Do not empty into drains. Collect and dispose of spillage as indicated in Section 13.

7. HANDLING & STORAGE

7.1 Precautions for Safe Handling

Ensure good ventilation at workplace. Ensure good hygiene practices are observed. Do not eat, drink or smoke when handling this product. Do not breathe dust. Avoid contact with skin and eyes. Ensure workplace exposure limits are observed. Do not block stack pallets.

7.2 Conditions for Safe Storage

Store in original containers, tightly closed in a secure, well ventilated, cool but frost-free, dry area. Store clear of foodstuffs and in a separate stack from herbicides.

7.3 Specific end use

Fertiliser

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust). Nuisance dust: Inhalable dust 10 mg/m3, Respirable dust 4 mg/m3

Ammonium Sulphate, Long-term Exposure Limit (LTEL)

Long-term Exposure Limit (8 hour TWA)	10	mg/m^3
Long-term Exposure Limit (8 hour TWA) WEL	4	mg/m^3 respirable dust

Iron (II) Sulphate-0), Long-term Exposure Limit (LTEL)

Long-term Exposure Limit (8 hour TWA) WEL (as Fe)	1.0	mg/m^3

Potash (CAS 7447-40-7), Desired No Effect Level (DNEL)

Worker

Systemic long-term effects dermal:	580	mg/kg/day
Systemic long-term effects inhalative:	292	mg/m^3
Systemic short-term effects dermal:	580	mg/kg/day
Systemic short-term effects inhalative:	292	mg/m^3

Potash (CAS 7447-40-7), Predicted No Effect Concentration (PNEC)

Fresh water	0.047	mg/L
Marine water	0.047	mg/m^3

8.2 Exposure Controls:

Protective equipment

Gloves: wear protective gloves.
Eye/face protection: wear eye protection.
Engineering controls: all handling should only take place in well-ventilated areas.
Clothing: wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures: wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
Respiratory protection: no specific recommendations

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	Beige to dark brown granules
Odour	Mild
pH	Slightly Acidic
Boiling point	n/a
Melting point	n/a
Flash point	n/a
Flammability	Not flammable
Autoflammability	n/a
Explosivity	n/a
Oxidising properties	Does not meet the criteria for classification as oxidising
Vapour Pressure	n/a
Relative density	n/a
Solubility	n/a
Decomposition temperature	n/a

9.2 Other Information:

None

10. STABILITY & REACTIVITY

10.1 Reactivity

Stable under normal conditions of storage and use

10.2 Stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

Information not available

10.4 Conditions to Avoid

Extremes of temperature

10.5 Incompatible materials

None known

10.6 Hazardous Decomposition Products

Decomposes at high temperatures producing toxic nitrogen and sulphur oxide fumes.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute toxicity – oral
No specific test data are available.

Acute toxicity – dermal
Notes (dermal LD50)
No specific test data are available.

Acute toxicity – inhalation
Notes (inhalation LC50)
No specific test data are available.

Skin corrosion/irritation
May cause skin irritation.

Serious eye damage/irritation
Irritation of eyes is assumed.

Respiratory sensitisation
No specific test data are available.

Skin sensitisation
Based on available data the classification criteria are not met. Contains a small amount of a skin sensitising substance. May cause irritation.

Germ cell mutagenicity
Genotoxicity - in vitro
This substance has no evidence of mutagenic properties.

Carcinogenicity
No specific test data are available.

Reproductive toxicity
Reproductive toxicity - fertility
Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure
STOT - single exposure
Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure
STOT - repeated exposure
Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard
Not anticipated to present an aspiration hazard, based on chemical structure.

Eye contact
The product is considered to be a low hazard under normal conditions of use. May cause eye irritation.

Skin contact
May cause an allergic skin reaction. The product contains a small amount of sensitising substance.

Ecotoxicity
The product is not expected to be toxic to aquatic organisms

12. ECOLOGICAL INFORMATION

12.1 Toxicity
Not classified as hazardous. Provides nutrients essential to plant growth.

12.2 Persistence and degradability
The product is slowly degradable.

12.3 Bioaccumulative potential
Partition coefficient not known.

12.4 Mobility in soil
No data

12.5 Results of PBT and vPvB
The product does not contain any substances classified as PBT or vPvB.

12.6 Other adverse data
No data

13. DISPOSAL CONSIDERATIONS
Disposal route should not permit contamination of groundwater.

13.1 Waste treatment methods

Dispose of waste through a reputable waste disposal contractor in accordance with the Environmental Protection Act 1990.

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. Only store in correctly labelled containers. Dispose of contents/container in accordance with national regulations. No specific disposal method required. Do not empty into drains.

14. TRANSPORT INFORMATION

14.1 UN-Number

ADR, IMDG, IATA Not applicable

14.2 UN proper shipping name

ADR, IMDG, IATA Not applicable

14.3 Transport hazard class(es)

ADR, IMDG, IATA Not applicable

14.4 Packaging Group

ADR, IMDG, IATA Not applicable

14.5 Environmental hazards

Not a marine pollutant

14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific to this substance:

This substance is classified and labelled in accordance with regulation 1999/45/EC, 1272/2008, the statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulations and the EC Fertiliser Regulations 2003, 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, including amendments.

15.2 Chemical Safety Assessment

Not undertaken for this material

16. OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

CAS: Chemical Abstracts Service.

DNEL: Derived No Effect Level.

GHS: Globally Harmonized System.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

LC_{50}: Lethal Concentration to 50 % of a test population.
LD_{50}: Lethal Dose to 50% of a test population (Median Lethal Dose).
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
SVHC: Substances of Very High Concern.
vPvB: Very Persistent and Very Bioaccumulative.
cATpE: Converted Acute Toxicity Point Estimate.
LOAEC: Lowest Observed Adverse Effect Concentration.
LOAEL: Lowest Observed Adverse Effect Level.
EC_{50}: 50% of maximal Effective Concentration.
NOAEL: No Observed Adverse Effect Level.
NOEC: No Observed Effect Concentration.
LOEC: Lowest Observed Effect Concentration.
DMEL: Derived Minimal Effect Level.

Text of the hazard statements mentioned in Section 3:

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341 Suspected of causing genetic defects.
H350i May cause cancer by inhalation.
H360D May damage the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
EUH208 Contains nickel sulphate. May produce an allergic reaction.

Reason for revision

MSDS re-formatted in-line with regulation 453/2010 all sections affected.

Liability

The product label provides information on the use of the product: do not use otherwise, unless you have assessed any potential hazard involved and the safety measures required. Prepared by Thomas Elliott (Fertilisers), for Health and Safety purposes from the best knowledge available at the time of printing.