



NK 12-0-6+1Fe Liquid

Issue Date: 16-Feb-16
 Revision Date: 16-Feb-16
 Revision Number: 1

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

1.1 Name of Product

NK 12-0-6+1Fe Liquid

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.
 This mixture is not classified as dangerous to humans or the environment.

2.2 Label elements

There are no statutory labelling requirements under regulation 1272/2008 and regulation 453/2012.

2.3 Other hazards

Mixture not classed as PBT or vPvB.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Liquid fertiliser containing 12% nitrogen, 6% potassium oxide, 1% iron

Ingredient	CAS/EINECS	Classification	% w/w
Potassium Nitrate	7757-79-1 231-818-8	Oxid Solid 3 H272 R8	10-20%

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 – Immediately rinse with clean water for 15 minutes. Seek medical attention if symptoms persist or develop.

Skin contact – Wash exposed areas of skin with soap and water following use. Wash all contaminated clothing before re-use.

Ingestion – wash out mouth with water and seek medical advice.

Inhalation – remove to fresh air.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of immediate medical attention and special treatment needed

None

Additional medical guidance is available to doctors from the National Poisons Information Service.

5. FIRE FIGHTING MEASURES

Non flammable

5.1 Extinguishing Media

Use foam, carbon dioxide, dry powder, sand. 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

Possible irritant fumes arising from product decomposition.

5.3 Advice for firefighters

Contain spread of extinguishing fluids. Wear self-contained breathing apparatus in confined spaces.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

Ensure adequate ventilation. Wear protective gloves and eye protection. Wash hands and exposed skin after handling.

6.2 Environmental precautions

Do not allow to enter drains or sewers.

6.3 Methods and material for containment and cleaning up:

Sweep up and shovel product or use other means and place in container for reuse (preferred) or disposal.

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

Potassium Nitrate (CAS 7757-79-1), Desired No Effect Level (DNEL)

Worker

Systemic long-term effects dermal:	20.8	mg/kg/day
Systemic long-term effects inhalative:	36.7	mg/m ³

General Population

Acute systemic effects oral:	12.5	mg/kg/day
Systemic long-term effects dermal:	12.5	mg/kg/day
Systemic long-term effects inhalative:	10.9	mg/m ³

Potassium Nitrate (CAS 7757-79-1), Predicted No Effect Concentration (PNEC)

Fresh water	0.45 mg/L
Marine water	0.045 mg/m ³
Intermittent fresh water	4.5 mg/L

Sewage Treatment Plants

STP	18 mg/L
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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	Brown liquid
Odour	n/a
pH	7.0 ± 1.0
Boiling point	n/a
Melting point	n/a
Flash point	n/a
Flammability	n/a
Autoflammability	n/a
Explosivity	n/a
Oxidising properties	n/a
Vapour pressure	n/a
Specific gravity	1.16 ± 0.01
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

Possible irritant fumes.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

This mixture has not been assessed for toxicological effects as the mixture is not classified as dangerous based on its individual components.

Toxicological information on hazardous ingredients:

Potassium nitrate

LD50 oral rat:	> 2000 mg/kg (OECD 425)
LD50 dermal rat:	> 5000 mg/kg (OECD 402)
LC50 inhalation rat (mg/l):	> 527 mg/m ³ (OECD 403)
Skin corrosion/irritation:	Not irritating. rabbit. OECD 404
pH:	5 - 8
Serious eye damage/irritation:	Not irritating. rabbit. OECD 405 pH: 5 - 8
Respiratory or skin sensitisation:	Did not cause sensitisation. mouse, OECD 429
Germ cell mutagenicity:	Negative /OECD 471. Negative/OECD 476
Carcinogenicity:	Not a carcinogen suspected agent.
Reproductive toxicity:	NOAEL: >= 1500 mg/kg bw/day(rat, oral, 28 days, OECD 422)
Specific target organ toxicity (single exposure):	Not classified
Specific target organ toxicity (repeated exposure):	NOAEL: > = 1500 mg/kg bw/day(rat, OECD 422)
Aspiration hazard:	Not classified

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.

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

Text of the hazard statements mentioned in Section 3:

H272: May intensify fire; oxidiser.

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.