



SAFETY DATA SHEET

Unika™ Calcium 50:50 CN:PN

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Product name : Unika™ Calcium 50:50 CN:PN

Synonyms : NK 15-23 + 13CaO (MBAKO III)

Use of the substance/preparation : NK fertiliser containing calcium

Company/undertaking identification

Manufacturer / Supplier : Yara Australia Pty Ltd
201 Miller Street, Mezzanine Level
North Sydney
NSW 2060 Australia

Tel: +61 2 9959 4266

Fax: +61 2 9959 4050

e-mail address of person responsible for this SDS : yaraasiapacific@yara.com

Emergency telephone number : +61 4 1722 3075 (24h)

2. Hazards identification

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.

See section 11 for more detailed information on health effects and symptoms.

3. Composition/information on ingredients

Substance/preparation : Preparation

Ingredient name	CAS number	%	EC number	Classification
potassium nitrate (merket med R8)	7757-79-1	50	231-818-8	O; R8
nitric acid, ammonium calcium salt	15245-12-2	50	239-289-5	Not classified.
See section 16 for the full text of the R-phrases declared above				

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in section 8.

Contains plant nutrients.

4. First-aid measures

Inhalation : Avoid breathing dust. If inhaled, remove to fresh air.

Ingestion : If large quantities of this material are swallowed, call a physician immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Skin contact : Avoid prolonged or repeated contact with skin. Wash with soap and water. Get medical attention if irritation develops.

4. First-aid measures

- Eye contact** : In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if irritation occurs.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.
- See section 11 for more detailed information on health effects and symptoms.**

5. Fire-fighting measures

- Extinguishing media** : Use water only in flooding quantities to fight the fire. Do NOT use chemical extinguisher or foam or attempt to smother the fire with steam or sand.
- Hazardous thermal decomposition products** : These products are
nitrogen oxides
metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Remark** : The product itself is not combustible but it can support combustion, even in absence of air. On heating it melts and further heating can cause decomposition, releasing toxic fumes containing nitrogen oxides and ammonia.

6. Accidental release measures

- Personal precautions** : Follow all fire-fighting procedures (section 5).
- Environmental precautions and clean-up methods** : Avoid contact of spilt material and runoff with soil and surface waterways.
- Use a tool to scoop up solid material and place into an appropriate labelled waste container. Do not mix with sawdust or other combustible material. Avoid creating dusty conditions and prevent wind dispersal. Keep out of waterways. See section 13 for waste disposal information.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

- Handling** : Avoid creating dusty conditions and prevent wind dispersal. Avoid all possible sources of ignition (spark or flame). Avoid contamination by any source including metals, dust and organic materials.
- Storage** : Store and use away from heat, sparks, open flame or any other ignition source. Avoid contact with combustible materials. Prevent moisture pick-up in handling and storage.
- Packaging materials**
- Recommended** : Use original container.

8. Exposure controls/personal protection

- Occupational exposure limits** : Total inhalable dust - 10 mg/m³
Respirable dust - 5 mg/m³

Exposure controls

- Respiratory protection** : Provide adequate ventilation. If dust is generated and ventilation is inadequate, use respirator that will protect against dust/mist.
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. >8 hours (breakthrough time): PVC, butyl rubber, nitrile rubber, natural rubber (latex).
- Eye protection** : Recommended: Use dust goggles if high dust concentration is generated.
- Skin protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location

9. Physical and chemical properties

General information

Appearance	
Physical state	: Solid. [Granular solid.]
Colour	: Yellow.
Odour	: Odourless.

Important health, safety and environmental information

Boiling point	: Decomposition temperature: 150 to 200°C
Melting/freezing point	: 333.8°C (632.8°F) This is based on data for the following ingredient: Potassium nitrate.
Explosive properties	: The product itself is not combustible but it can support combustion, even in absence of air. On heating it melts and further heating can cause decomposition, releasing toxic fumes containing nitrogen oxides and ammonia.
Density g/cm³	: Only known value: 2.109 g/cm ³ (Potassium nitrate).

10. Stability and reactivity

Stability	: Stable under recommended storage and handling conditions (see section 7).
Materials to avoid	: Reactive or incompatible with the following materials: reducing materials, combustible materials, organic materials and acids.
Hazardous decomposition products	: These products are nitrogen oxides metal oxide/oxides

11. Toxicological information

Potential acute health effects

May cause eye and skin irritation.

Adverse health effects are considered unlikely, when the product is used according to directions.

Potential chronic health effects

Chronic effects	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Inhalation	: No specific data.
Ingestion	: No specific data.
Skin	: No specific data.
Eyes	: No specific data.

12. Ecological information

Environmental effects : No known significant effects or critical hazards.

Aquatic ecotoxicity

Potassium nitrate	Acute LC50 490 mg/L Fresh water	Daphnia - Daphnia magna	48 hours	Daphnia - Daphnia magna
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Other ecological information

Conclusion/Summary : Most inorganic compounds are not biodegradable. The product does not show any bioaccumulation phenomena.

Other adverse effects : No known significant effects or critical hazards.

13. Disposal considerations

- Methods of disposal** : Empty containers or liners may retain some product residues. Do not empty into drains; dispose of this material and its container in a safe way. Dispose of in accordance with all applicable local and national regulations
- Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC..

14. Transport information

Not regulated.

Not classified as hazardous material according to UN Orange Book and international transport codes e.g. ADR (road), RID (rail), ADN (inland waterways) and IMDG (sea).

15. Regulatory information

EU regulations

Risk phrases : This product is not classified according to EU legislation.

Product use : Industrial applications.

Classification and labelling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.

Europe inventory : All components are listed or exempted.

Additional warning phrases : Safety data sheet available for professional user on request.

16. Other information

Full text of R-phrases referred to in sections 2 and 3 - Europe : R8- Contact with combustible material may cause fire.

Full text of classifications referred to in sections 2 and 3 - Europe : O - Oxidising

National Fire Protection Association (U.S.A.) :



References : European Chemical Bureau, Annex 1 EU Directive 67/548/EEC
National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda
Registry of Toxic Effects of Chemical Substances
Atrion International Inc. 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada

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Version : 1

Prepared by : Yara Product Classification and Regulations

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein. Final determination of the suitability of any material is the sole responsibility of the user. All materials may represent unknown hazards and should be used with caution. Yara International ASA disclaims any liability for loss or damage resulting from the use of any data, information or recommendations set out in this Safety Data Sheet.

16. Other information

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