

Revision Date 15.11.2012
Revision 01



SAFETY DATA SHEET NITCAL K

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

1.1. Product identifier

Product name NITCAL K
Product No. 300935

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

Identified uses Chemical

1.3. Details of the supplier of the safety data sheet

Supplier Univar
Aquarius House
6 Midpoint Business Park
Thornbury
Bradford
BD3 7AY
+44 1274 267300
+44 1274 267306
sds@univar.com

1.4. Emergency telephone number

Emergency Contact Number (Office Hours)

+44 1274 267346

Emergency Contact Number (Outside Office Hours)

+441865 407333

Sds No. 13977

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Acute Tox. 4 - H302; Eye Dam. 1 - H318
Environment	Not classified.

Classification (67/548/EEC) Xn; R22. Xi; R41.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements

Contains NITRIC ACID CALCIUM POTASSIUM SALT

Label In Accordance With (EC) No. 1272/2008

NITCAL K



Signal Word	Danger	
Hazard Statements	H302 H318	Harmful if swallowed. Causes serious eye damage.
Precautionary Statements	P280 P264 P301+312 P305+351+338 P310 P501	Wear protective gloves/protective clothing/eye protection/face protection. Wash contaminated skin thoroughly after handling. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Dispose of contents/container in accordance with regional regulations.

2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

NITRIC ACID CALCIUM POTASSIUM SALT		50-100%
CAS-No.: 905593-70-6	EC No.:	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Eye Dam. 1 - H318	Classification (67/548/EEC) Xn;R22. Xi;R41.	
NITRIC ACID, AMMONIUM CALCIUM SALT		5-10%
CAS-No.: 15245-12-2	EC No.: 239-289-5	Registration Number: 01-2119493947-16
Classification (EC 1272/2008) Acute Tox. 4 - H302 Eye Dam. 1 - H318	Classification (67/548/EEC) Xn;R22. Xi;R41.	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition Comments

The data shown are in accordance with the latest EC Directives.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

NITCAL K

Inhalation

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion

Provide rest, warmth and fresh air. Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

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

Ingestion

May cause stomach pain or vomiting.

Eye contact

Extreme irritation of eyes and mucous membranes, including burning and tearing.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Fire can be extinguished using: Water.

Unsuitable extinguishing media

Dry chemicals, sand, dolomite etc. Foam.

5.2. Special hazards arising from the substance or mixture

Specific hazards

Ammonia or amines. Oxides of: Carbon. Nitrogen.

5.3. Advice for firefighters

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Provide adequate ventilation.

6.2. Environmental precautions

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Flush area with plenty of water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: HANDLING AND STORAGE

NITCAL K

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Avoid inhalation of high concentrations of dust.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Keep in original container.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments

No exposure limits noted for ingredient(s).

NITRIC ACID, AMMONIUM CALCIUM SALT (CAS: 15245-12-2)

Ingredient Comments

No exposure limits noted for ingredient(s).

DNEL

Professional	Dermal	Long Term	Systemic Effects	13, 9
Professional	Inhalation.	Long Term	Systemic Effects	24, 5 mg/kg/day
Consumer	Oral	Long Term	Systemic Effects	8, 33 mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	6, 3 mg/kg/day

PNEC

Freshwater	0.45	mg/l
Marinewater	0.045	mg/l

NITRIC ACID CALCIUM POTASSIUM SALT (CAS: 905593-70-6)

DNEL

Industry	Dermal	Long Term	Systemic Effects	13.9 mg/kg/day
Consumer	Oral	Long Term	Systemic Effects	8.33 mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	6.33 mg/m3
Consumer	Dermal	Long Term	Systemic Effects	8.33 mg/kg/day
Industry	Inhalation.	Long Term	Systemic Effects	24.5 mg/m3
Industry	Dermal	Long Term	Systemic Effects	13.9 mg/kg/day
Industry	Inhalation.	Long Term	Systemic Effects	98 mg/m3

PNEC

Freshwater	0.45	mg/l
STP	18	mg/l
Intermittent release	4.5	mg/l
Marinewater	0.045	mg/l

8.2. Exposure controls

Protective equipment



Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

Hand protection

Use protective gloves.

Eye protection

Wear approved safety goggles.

Other Protection

Wear rubber apron. Wear rubber footwear.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

NITCAL K

9.1. Information on basic physical and chemical properties

Appearance	Solid
Colour	White.
Odour	Odourless.
Solubility	Soluble in water.
Melting point (°C)	90 - 100
Relative density	2.1
pH-Value, Diluted Solution	6.3 0.11

9.2. Other information

Not determined.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not determined.

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials To Avoid

Strong acids. Strong alkalis. Flammable/combustible material. Strong reducing agents.

10.6. Hazardous decomposition products

Ammonia or amines. Oxides of: Carbon. Nitrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhalation

Dust may irritate respiratory system or lungs.

Ingestion

Harmful if swallowed.

Skin contact

Slightly irritating.

Eye contact

Risk of serious damage to eyes.

Toxicological information on ingredients.

NITCAL K

NITRIC ACID, AMMONIUM CALCIUM SALT (CAS: 15245-12-2)

Acute toxicity:**Acute Toxicity (Oral LD50)**

> 300 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rat

Skin Corrosion/Irritation:**Oedema score**

No oedema (0).

Germ cell mutagenicity:

Does not contain any substances known to be mutagenic.

Carcinogenicity:

This substance has no evidence of carcinogenic properties.

Reproductive Toxicity:

Based on available data the classification criteria are not met.

Aspiration hazard:**Inhalation**

May cause irritation to the respiratory system.

Ingestion

Harmful if swallowed.

Skin contact

Irritating and may cause redness and pain. Blistering may occur.

Eye contact

Irritating and may cause redness and pain. Risk of serious damage to eyes.

NITRIC ACID CALCIUM POTASSIUM SALT (CAS: 905593-70-6)

Acute toxicity:**Acute Toxicity (Oral LD50)**

500 mg/kg Rat

Acute Toxicity (Dermal LD50)

2000 mg/kg Rat

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Ecological information on ingredients.

NITRIC ACID, AMMONIUM CALCIUM SALT (CAS: 15245-12-2)

Ecotoxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity**Acute Fish Toxicity**

Not considered toxic to fish.

NITCAL K

Ecological information on ingredients.

NITRIC ACID, AMMONIUM CALCIUM SALT (CAS: 15245-12-2)

LC50 48 hours 447 mg/l

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours > 100 mg/l Daphnia magna

NITRIC ACID CALCIUM POTASSIUM SALT (CAS: 905593-70-6)

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours > 100 mg/l Daphnia magna

12.2. Persistence and degradability

Degradability

The product is easily biodegradable.

Ecological information on ingredients.

NITRIC ACID, AMMONIUM CALCIUM SALT (CAS: 15245-12-2)

The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

Will not bio-accumulate.

Ecological information on ingredients.

NITRIC ACID, AMMONIUM CALCIUM SALT (CAS: 15245-12-2)

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

log Pow < 1

NITRIC ACID CALCIUM POTASSIUM SALT (CAS: 905593-70-6)

Partition coefficient

log Pow -3.29

12.4. Mobility in soil

Mobility:

The product is soluble in water.

Ecological information on ingredients.

NITRIC ACID, AMMONIUM CALCIUM SALT (CAS: 15245-12-2)

Mobility:

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

Ecological information on ingredients.

NITRIC ACID, AMMONIUM CALCIUM SALT (CAS: 15245-12-2)

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Not determined.

Ecological information on ingredients.

NITRIC ACID, AMMONIUM CALCIUM SALT (CAS: 15245-12-2)

Not determined.

NITCAL K

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

No information required.

14.2. UN proper shipping name

No information required.

14.3. Transport hazard class(es)

No information required.

14.4. Packing group

No information required.

14.5. Environmental hazards**Environmentally Hazardous Substance/Marine Pollutant**

No.

14.6. Special precautions for user

No information required.

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

No information required.

SECTION 15: REGULATORY INFORMATION

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

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

CHIP for everyone HSG(108).

NITCAL K

EU Legislation

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. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date	15.11.2012
Revision	01
SDS No.	13977
Safety Data Sheet Status	Approved.
Date	15.11.2012
Signature	Jitendra Panchal
Risk Phrases In Full	
R22	Harmful if swallowed.
R41	Risk of serious damage to eyes.
Hazard Statements In Full	
H302	Harmful if swallowed.
H318	Causes serious eye damage.