

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 06.06.2023

Version number: 2

Revision date: 06.06.2023

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name:** **16-6-30+3CaO**
- **Synonyms** 15-5-29+3CaO
- **Article number:**  
MS-100097  
6116063001
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** Water Soluble Fertilizer
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Fertilizers & Chemicals Ltd.  
P.O.Box 1428, Haifa 3101302,  
Industrial area Kiryat Ata  
Deshanim@icl-group.com  
Israel.
- **Further information obtainable from:**  
Safety Department:  
Tel: +972-4-8468407/406  
Fax number: +972-4-8468360
- **1.4 Emergency telephone number:**  
Tel: +972-4-8468222, +972-4-8468229  
Fax: +972-4-8468110  
Tel: +972-4-8468178/179  
Fax number: +972-4-8468296

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS05

- **Signal word** Danger

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**- Hazard-determining components of labelling:**

Nitric acid, ammonium calcium salt

**- Hazard statements**

H318 Causes serious eye damage.

**- Precautionary statements**

P280 Wear 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.

P310 Immediately call a POISON CENTER/doctor.

**- Additional information:**

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

**- 2.3 Other hazards**
**- Results of PBT and vPvB assessment**
**- PBT:** Not applicable.

**- vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**- 3.2 Mixtures**
**- Description:** Mixture of substances listed below with nonhazardous additions.

**- Components:**

CAS: 7447-40-7 EINECS: 231-211-8	potassium chloride	25-50%
CAS: 7722-76-1 EINECS: 231-764-5 Reg.nr.: 01-2119488166-29	ammonium dihydrogenorthophosphate	2.5-10%
CAS: 15245-12-2 Reg.nr.: 01-2119493947-16	Nitric acid, ammonium calcium salt ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302	10-25%
CAS: 14887-42-4 EINECS: 238-961-5 Reg.nr.: 01-2119510125-56	PeKacid ⚠ Eye Irrit. 2, H319	2.5-9%
CAS: 57-13-6 EINECS: 200-315-5 Reg.nr.: 01-2119463277-33	urea	25-50%

**- SVHC** None

**- Additional information:** For the wording of the listed hazard phrases refer to section 16.

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**SECTION 4: First aid measures****- 4.1 Description of first aid measures****- General information:**

Do not leave affected persons unattended.

Take affected persons out into the fresh air.

**- After inhalation:** Supply fresh air; consult doctor in case of complaints.**- After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**- After eye contact:**

Rinse opened eye for at least 15 minutes under running water.

If eye irritation persists, consult a specialist.

**- After swallowing:**

Rinse out mouth and then drink plenty of water.

Call a doctor immediately.

Do not induce vomiting.

Never give an unconscious person anything to drink.

**- 4.2 Most important symptoms and effects, both acute and delayed**

Causes serious eye damage.

Harmful if swallowed.

Breathing in mists or aerosols may produce respiratory irritation.

**- 4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5: Firefighting measures****- 5.1 Extinguishing media****- Suitable extinguishing agents:**

Use fire extinguishing methods suitable to surrounding conditions.

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**- 5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Nitrogen oxides (NO<sub>x</sub>)Toxic metal compounds (K<sub>2</sub>O)Chlorine (Cl<sub>2</sub>)

Hydrogen chloride (HCl)

Phosphorous oxides (PO<sub>x</sub>)Carbon oxides (CO, CO<sub>2</sub>)

Ammonia

**- 5.3 Advice for firefighters****- Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

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Boots

- **Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.

### **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid formation of dust.

Ensure adequate ventilation

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective clothing.

- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

- **6.3 Methods and material for containment and cleaning up:**

Pick up mechanically.

Shovel or sweep up. Do not create a powder cloud by using a brush or compressed air.

Dispose of the material collected according to regulations.

- **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**

Avoid contact with the eyes and skin.

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Store in a cool, dry, well ventilated place in tightly closed receptacles.

Protect from heat and direct sunlight

Protect from humidity and water.

- **Information about storage in one common storage facility:**

Keep away from food, drink and animal feeding stuff.

Store away from Metallic powders ,and Sulfur. Sawdust , Oil and Fats

Do not store together with combustible materials.

Store away from reducing agents.

Keep substance away from: oxidizing agents, (strong) acids, (strong) bases.

Store away from nitrites, inorganic chlorides, chlorites and perchlorates.

Store away from water.

- **Further information about storage conditions:** Partly used bags should be closed well.

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- 7.3 *Specific end use(s)* No further relevant information available.

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### SECTION 8: Exposure controls/personal protection

#### - 8.1 Control parameters

##### - Ingredients with limit values that require monitoring at the workplace:

###### 57-13-6 urea

WEEL (USA) 10 mg/m<sup>3</sup>

##### - DNELs For Ingredients:

###### - For workers:

###### 7447-40-7 potassium chloride

Dermal	DNEL: Long-term-systemic effects(W)	303 mg/kg bw/day (())
	DNEL: Short-term-systemic effect(W)	910 mg/kg bw/day (())
Inhalative	DNEL: Long-term-systemic effect(W)	1064 mg/m <sup>3</sup> (())
	DNEL: Short-term-systemic effect(W)	5320 mg/m <sup>3</sup> (())

###### 57-13-6 urea

Dermal	DNEL: Short-term-systemic effect(W)	580 mg/kg bw/day (())
Inhalative	DNEL: Short-term-systemic effect(W)	292 mg/m <sup>3</sup> (())

###### 15245-12-2 Nitric acid, ammonium calcium salt

Dermal	DNEL: Long-term-systemic effects(W)	13.9 mg/kg bw/day (())
Inhalative	DNEL: Long-term-systemic effect(W)	24.5 mg/m <sup>3</sup> (())

###### 7722-76-1 ammonium dihydrogenorthophosphate

Dermal	DNEL: Long-term-systemic effects(W)	34.7 mg/kg bw/day (())
Inhalative	DNEL: Long-term-systemic effect(W)	6.1 mg/m <sup>3</sup> (())

###### 14887-42-4 PeKacid

Inhalative	DNEL: Long-term-systemic effect(W)	4.07 mg/m <sup>3</sup> (())
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##### - For general population:

###### 7447-40-7 potassium chloride

Oral	DNEL: Long-term-systemic effect(P)	91 mg/kg bw/day (())
	DNEL: Short-term-systemic effect(P)	455 mg/kg bw/day (())
Dermal	DNEL: Long-term-systemic effect(P)	182 mg/kg bw/day (())
	DNEL: Short-term-systemic effect(P)	910 mg/kg bw/day (())
Inhalative	DNEL: Long-term-systemic effect(P)	273 mg/m <sup>3</sup> (())
	DNEL: Short-term-systemic effect(P)	1365 mg/m <sup>3</sup> (())

###### 57-13-6 urea

Oral	DNEL: Short-term-systemic effect(P)	42 mg/kg bw/day (())
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Dermal	DNEL: Short-term-systemic effect(P)	580 mg/kg bw/day (())
Inhalative	DNEL: Short-term-systemic effect(P)	125 mg/m <sup>3</sup> (())
<b>15245-12-2 Nitric acid, ammonium calcium salt</b>		
Oral	DNEL: Long-term-systemic effect(P)	8.3 mg/kg bw/day (())
Dermal	DNEL: Long-term-systemic effect(P)	8.3 mg/kg bw/day (())
Inhalative	DNEL: Long-term-systemic effect(P)	6.3 mg/m <sup>3</sup> (())
<b>7722-76-1 ammonium dihydrogenorthophosphate</b>		
Oral	DNEL: Long-term-systemic effect(P)	2.1 mg/kg bw/day (())
Dermal	DNEL: Long-term-systemic effect(P)	20.8 mg/kg bw/day (())
Inhalative	DNEL: Long-term-systemic effect(P)	1.8 mg/m <sup>3</sup> (())
<b>14887-42-4 PeKacid</b>		
Inhalative	DNEL: Long-term-systemic effect(P)	3.04 mg/m <sup>3</sup> (())
<b>- PNECs</b>		
<b>57-13-6 urea</b>		
PNEC Aqua (freshwater):		0.047 mg/l (())
PNEC aqua (marine water):		0.047 mg/l (())
<b>15245-12-2 Nitric acid, ammonium calcium salt</b>		
PNEC Aqua (freshwater):		0.45 mg/l (())
PNEC aqua (marine water):		0.045 mg/l (())
PNEC aqua (intermittent releases):		4.5 mg/l (())
<b>7722-76-1 ammonium dihydrogenorthophosphate</b>		
PNEC Aqua (freshwater):		1.7 mg/l (())
PNEC aqua (marine water):		0.17 mg/l (())
PNEC aqua (intermittent releases):		17 mg/l (())
<b>14887-42-4 PeKacid</b>		
PNEC Aqua (freshwater):		0.05 mg/l (())
PNEC aqua (marine water):		0.005 mg/l (())
PNEC aqua (intermittent releases):		0.5 mg/l (())
PNEC STP:		50 mg/l (())

### - Additional information:

Ventilation must be sufficient to maintain TLV-TWA below 3 mg/m<sup>3</sup>, respirable particles, and 10 mg/m<sup>3</sup>, inhalable particles [ACGIH recommendation for particles (insoluble or poorly soluble). Not Otherwise Specified (PNOS)]

### - 8.2 Exposure controls

#### - General protective and hygienic measures:

Do not inhale dust / smoke / mist.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

The usual precautionary measures are to be adhered to when handling chemicals.

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Immediately remove all soiled and contaminated clothing  
Avoid contact with the eyes and skin.  
Do not eat, drink, smoke or sniff while working.

**- Respiratory protection:**



Filter P2

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**- Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.



Protective gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**- Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Butyl rubber, BR

Neoprene gloves

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

Chloroprene rubber, CR

Natural rubber, NR

**- Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed (EN 374)

**- Not suitable are gloves made of the following materials:** Leather gloves

**- Eye protection:**

Safety glasses



Tightly sealed goggles

**- Body protection:**

Protective work clothing

Boots

**- Limitation and supervision of exposure into the environment**

The product should not get in high quantities into water because it may act as a plant nutrient and cause eutrophication.

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**- Risk management measures**

Do not allow undiluted product or large quantities of it to reach ground water, water courses or sewage system.

### SECTION 9: Physical and chemical properties

**- 9.1 Information on basic physical and chemical properties**
**- General Information**
**- Appearance:**
**Form:** Crystalline powder

**Colour:** Red

**- Odour:** Characteristic

**- Odour threshold:** Not determined.

**- pH-value (10 g/l) at 25 °C:** 3.1

**- Change in condition**
**Melting point/freezing point:** Undetermined.

**Initial boiling point and boiling range:** Undetermined.

**- Flash point:** Not applicable.

**- Flammability (solid, gas):** Product is not flammable.

**- Decomposition temperature:** Not determined.

**- Auto-ignition temperature:** Product is not selfigniting.

**- Explosive properties:** Product does not present an explosion hazard.

**- Explosion limits:**
**Lower:** Not determined.

**Upper:** Not determined.

**- Vapour pressure:** Not applicable.

**- Density:** Not determined.

**- Relative density** Not determined.

**- Vapour density** Not applicable.

**- Evaporation rate** Not applicable.

**- Solubility in / Miscibility with water:**

Soluble.

**- Partition coefficient: n-octanol/water:** Not determined.

**- Viscosity:**
**Dynamic:** Not applicable.

**Kinematic:** Not applicable.

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**- Solvent content:**
**Organic solvents:** 0.0 %

**Solids content:** 100.0 %

**- 9.2 Other information**

No further relevant information available.

### SECTION 10: Stability and reactivity

**- 10.1 Reactivity** No further relevant information available.

**- 10.2 Chemical stability**
**- Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**- 10.3 Possibility of hazardous reactions**

Under normal conditions of storage and use, hazardous reactions will not occur.

Reacts violently with BrF<sub>3</sub> and sulfuric acid at 600°C

**- 10.4 Conditions to avoid**

To avoid decomposition do not overheat.

Keep ignition sources away - Do not smoke.

Protect from moisture.

**- 10.5 Incompatible materials:**

Avoid contamination with combustible or flammable materials, strong acids,

strong bases, strong oxidizing agents, reducing agents,

Alkalies

Metallic powders, Sulfur, Sawdust, Oil, Fats

Nitrites, inorganic chlorides, chlorites and perchlorates

**- 10.6 Hazardous decomposition products:**

Formation of toxic gases is possible during heating or in case of fire.

Nitrogen oxides (NO<sub>x</sub>)

Phosphorus oxides (e.g. P<sub>2</sub>O<sub>5</sub>)

Toxic metal compounds (K<sub>2</sub>O)

Carbon oxides

Hydrogen chloride (HCl)

Chlorine

Ammonia

### SECTION 11: Toxicological information

**- 11.1 Information on toxicological effects**
**- Acute toxicity** Based on available data, the classification criteria are not met.

**- LD/LC50 values relevant for classification:**
**7447-40-7 potassium chloride**

Oral LD50 2600 mg/kg (rat)

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**57-13-6 urea**

Oral LD50 8471 mg/kg (rat)

**15245-12-2 Nitric acid, ammonium calcium salt**

Oral LD50 &gt;300 mg/kg (rat)

**7722-76-1 ammonium dihydrogenorthophosphate**

Oral LD50 &gt;2,000 mg/kg (rat) (OECD 425)

Dermal LD50 &gt;5,000 mg/kg (rat) ((OECD 402))

**14887-42-4 PeKacid**

Oral LD50 &gt;2,000 mg/kg (rat) ((OECD 425))

Dermal LD50 &gt;2,000 mg/kg (rat) ((OECD 402))

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **by Ingestion:** Harmful if swallowed.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

**- 12.1 Toxicity**
**- Aquatic toxicity:**
**15245-12-2 Nitric acid, ammonium calcium salt**

LC50/48h 447 mg/l (Fish)

LC50/72h &gt;100 mg/l (algae)

EC50/48h &gt;100 mg/l (daphnia)

**7447-40-7 potassium chloride**

LC50/96h 880 mg/l (Fathead minnow fish)

EC50/120h 1,337 mg/l (algae)

EC50/21d 130 mg/l (daphnia magna)

EC50/48h 660 mg/l (daphnia magna)

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**7722-76-1 ammonium dihydrogenorthophosphate**

LC50/96h >85.9 mg/l (fish *Oncorhynchus mykiss*)

**14887-42-4 PeKacid**

EC50/48h (static) >100 mg/l (*daphnia magna*)

**57-13-6 urea**

LC50/96h >9,100 mg/l (*Barillius barna*)

EC50/24hr >10,000 mg/l (*daphnia magna*)

- **12.2 Persistence and degradability** Inorganic product, therefore no biodegradation tests are applicable.
- **12.3 Bioaccumulative potential** Low potential for bioaccumulation (based on substance properties).
- **12.4 Mobility in soil** Low potential for adsorption (based on substance properties).
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

**- 14.1 UN-Number**
**- DOT, ADR, ADN, IMDG, IATA** None

**- 14.2 UN proper shipping name** None

**- ADR, ADN, IMDG, IATA** None

**- 14.3 Transport hazard class(es)** None

**- DOT, ADR, ADN, IMDG, IATA** None

**- Class** None

**- 14.4 Packing group**
**- ADR, ADN, IMDG, IATA** None

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- 14.5 Environmental hazards:	Not applicable.
- 14.6 Special precautions for user	Not applicable.
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
- UN "Model Regulation":	None

### SECTION 15: Regulatory information

#### - 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2000/60 EC (phosphates)

#### - Labelling according to Regulation (EC) No 1272/2008

GHS label elements

The product is classified and labelled according to the CLP regulation.

#### - Hazard pictograms



GHS05

#### - Signal word Danger

#### - Hazard-determining components of labelling:

Nitric acid, ammonium calcium salt

#### - Hazard statements

H318 Causes serious eye damage.

#### - Precautionary statements

P280 Wear 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.

P310 Immediately call a POISON CENTER/doctor.

#### - Directive 2012/18/EU

#### - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 65

### SECTION 16: Other information

#### - Contact:

Regulatory Affairs Department

Tel: +972-4-8468255

msdsfc@icl-group.com

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**- Abbreviations and acronyms:**

NOAEL: No Observable Adverse Effect Level  
TLV: Threshold Limit Value  
TWA: Time Weighted Average  
OSHA: Occupational Safety and Health Administration  
OECD: Organization for Economic Co-operation and Development  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity – Category 4  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

**- Reason for revision:** Periodical review**- Disclaimer**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

All information, recommendations and suggestions herein concerning our products are based upon tests and data believed to be reliable, however, it is the users responsibility to determine the safety, toxicity and suitability for his own use of the product described herein.

Since the actual use by others is beyond our control, no guarantee, expressed or impressed or implied is made by F&C, as to the effects of such use, the results to be obtained or the safety and toxicity of the product nor does F&C assume any liability arising out of the use, by others, of the product referred to herein.

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