

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

Printing date 02.12.2015

Version number: 1

Revision date: 02.12.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking**- 1.1 Product identifier****- Trade name:** **Starter 11-36-24****- Article number:**

MS-200062

6111362404

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

No uses advised against.

Identified uses

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

Marketing Department:

Tel: +972-4-8468178/179

Fax number: +972-4-8468296

- 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**

The product is not classified according to the CLP regulation.

- Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- 2.2 Label elements**- Labelling according to Regulation (EC) No 1272/2008** None**- Hazard pictograms** None**- Signal word** None**- Hazard statements** None**- Information concerning particular hazards for human and environment:** None**- 2.3 Other hazards****- Results of PBT and vPvB assessment****- PBT:** Not applicable.

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- **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

- 3.2 Mixtures

- **Description:** Mixture: consisting of the following components:

- Components:

CAS: 57-13-6 EINECS: 200-315-5	urea	substance with a Community workplace exposure limit	25-50%
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- Components:

CAS: 7778-77-0 EINECS: 231-913-4	potassium dihydrogenorthophosphate		50-75%
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- **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures

- **General information:** Do not leave affected persons unattended.

- After inhalation:

Take affected persons into fresh air and keep quiet.

Possible symptoms are coughing and/or dyspnea.

Supply fresh air; consult doctor in case of complaints.

- After skin contact:

Rinse with water

If skin irritation continues, consult a doctor.

- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

NOTE: Never give an unconscious person anything to drink.

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

- **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.

- **For safety reasons unsuitable extinguishing agents:**

Do not use chemical extinguishers or foams or attempt to smother the fire with steam or sand.

- 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Phosphorus oxides (e.g. P₂O₅)

Nitrogen oxides (NO_x)

Toxic metal compounds (K₂O)

- 5.3 Advice for firefighters

Wear self-contained respiratory protective device.

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- Wear fully protective suit.
- Protective equipment:**
Wear fully protective suit.
Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Keep away from ignition sources.
Avoid formation of dust.
Wear protective equipment. Keep unprotected persons away.
- **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.
- **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**
Keep receptacles tightly sealed.
Store in cool, dry place in tightly closed receptacles.
Prevent formation of dust.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool, dry, well ventilated place in tightly closed receptacles.
Suitable material for receptacles and pipes: Stainless steel.
Protect from heat and direct sunlight
Protect from humidity and water.
- **Information about storage in one common storage facility:**
Do not store with Aluminum, diazomethane and caustics
Store away from incompatible materials as specified in section 10 "materials to avoid" in this MSDS.
- **Further information about storage conditions:**
Protect from humidity and water.
Partly used bags should be closed well.
- **7.3 Specific end use(s)** Water soluble fertilizer.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

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- 8.1 Control parameters

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

57-13-6 urea

WEEL (USA) 10 mg/m³ (())

57-13-6 urea

WEEL (USA) Long-term value: 10 mg/m³

57-13-6 urea

WEEL (USA) Long-term value: 10 mg/m³

- DNELs For Ingredients:

- For workers:

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/m³ (())

7778-77-0 potassium dihydrogenorthophosphate

Inhalative DNEL: Long-term-systemic effect(W) 4,07 mg/m³ (())

- For general population:

57-13-6 urea

Oral DNEL: Short-term-systemic effect(P) 42 mg/kg bw/day (())

Dermal DNEL: Short-term-systemic effect(P) 580 mg/kg bw/day (())

Inhalative DNEL: Short-term-systemic effect(P) 125 mg/m³ (())

7778-77-0 potassium dihydrogenorthophosphate

Inhalative DNEL: Long-term-systemic effect(P) 3,04 mg/m³ (())

- PNECs

57-13-6 urea

PNEC Aqua (freshwater): 0,047 mg/l (())

PNEC aqua (marine water): 0,047 mg/l (())

7778-77-0 potassium dihydrogenorthophosphate

PNEC Aqua (freshwater): 0,05 mg/l (())

PNEC aqua (intermittent releases): 0,5 mg/l (())

PNEC aqua (marine water): 0,005 mg/l (())

- Additional information:

Ventilation must be sufficient to maintain TLV-TWA below 3 mg/m³, respirable particles, and 10 mg/m³, inhalable particles [ACGIH recommendation for particles (insoluble or poorly soluble). Not Otherwise Specified (PNOS)]
The lists valid during the making were used as basis.

- 8.2 Exposure controls

- General protective and hygienic measures:

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

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not inhale dust / smoke / mist.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

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- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

- **Material of gloves**

Rubber gloves

Neoprene 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.

- **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.

- **Eye protection:**

Protective glasses

Safety glasses



Tightly sealed goggles

- **Body protection:**

Protective work clothing

Boots

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:** 4,5±0,5

- **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Not determined.

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- Ignition temperature:	Not applicable
- Decomposition temperature:	Not determined.
- Self-igniting:	Product is not selfigniting.
- Danger of explosion:	Product does not present an explosion hazard.
- Explosion limits:	Not applicable
- 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:	Insoluble.
- Partition coefficient (n-octanol/water):	Not determined.
- Viscosity:	Not applicable This product is solid. Viscosity is only relevant to liquids.
- Dynamic:	Not applicable.
- Kinematic:	Not applicable.
- 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** Material is not reactive under normal conditions of use and storage
- **10.2 Chemical stability** No decomposition if used according to specifications.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with reducing agents.
- **10.4 Conditions to avoid**
Water
Store away from flammable substances.
Source of ignition, heat, fire, high humidity, sparks. Do not smoke
- **10.5 Incompatible materials:**
Strong oxidizing agents.
Chlorites and hypochlorites
Aluminum, diazomethane and caustics
- **10.6 Hazardous decomposition products:**
Formation of toxic gases is possible during heating or in case of fire.
Phosphorus oxides (e.g. P₂O₅)
Toxic metal compounds (K₂O)

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Nitrogen oxides (NOx)

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SECTION 11: Toxicological information

- 11.1 Information on toxicological effects

- Acute toxicity:

- LD/LC50 values relevant for classification:

57-13-6 urea

Oral	LD50	8471 mg/kg (rat)
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7778-77-0 potassium dihydrogenorthophosphate

Oral	LD50	>2000 mg/kg (rat)
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- Primary irritant effect:

- **on the skin:** No irritant effect.

- **on the eye:** No irritating effect.

- **by Inhalation:** Inhalation might cause sensitization.

- **Sensitisation:** No sensitising effects known.

- Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

- Toxicokinetics, metabolism and distribution

This product is not considered to have bioaccumulative potential as it is highly soluble in water.

- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

- **Toxicity for reproduction:** No classification is necessary

SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

57-13-6 urea

LC50/24h	>10000 mg/l (daphnia magna)
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LC50/96h	6810 mg NO3- per lite (Fish)
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- 12.2 Persistence and degradability

This product dissociates into potassium and phosphate ions, which can't be further degraded.

- 12.3 Bioaccumulative potential

Does not accumulate in organisms

- 12.4 Mobility in soil

No further relevant information available.

- Additional ecological information:

- General notes:

Water hazhrd class 1 (German Regulation), (Self-assessment): slightly hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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.

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- **12.6 Other adverse effects** No further relevant information available.

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SECTION 13: Disposal considerations

- **13.1 Waste treatment methods** Use up product completely. Packaging material is industrial waste.
- **Recommendation**
This product is used as fertilizer. However, large spills can kill vegetation. Prevent large quantities from entering waterways. If uncontaminated, sweep up or collect, and reuse as product. If contaminated with other materials, collect in suitable containers.
Dispose of contents/container in accordance with local/regional/national/international regulations.
Smaller quantities can be disposed of with household waste.
- **European waste catalogue** 02 01 09: agrochemical waste other than those mentioned in 02 01 08
- **Uncleaned packaging:**
- **Recommendation:**
Packaging may be reused or recycled after cleaning.
Packaging that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

- 14.1 UN-Number	Not classified for transport
- DOT, ADR, IMDG, IATA	None
- 14.2 UN proper shipping name	None
- ADR, IMDG, IATA	None
- DOT	NOT REGULATED FOR ROAD TRANSPORTATION
- 14.3 Transport hazard class(es)	None
- DOT, ADR, IMDG, IATA	None
- Class	None
- 14.4 Packing group	Not applicable
- ADR, ADN, IMDG, IATA	None
- 14.5 Environmental hazards:	
- Marine pollutant:	No
- 14.6 Special precautions for user	Not applicable.
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
- UN "Model Regulation":	-

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008** None
- **Hazard pictograms** None
- **Signal word** None

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Trade name: Starter 11-36-24**- Hazard statements** None

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SECTION 16: Other information**- Contact:**

Regulatory Affairs Department
Tel: +972-4-8468255
msdsfc@icl-group.com

- Abbreviations and acronyms:

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 européen sur le transport 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
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)

- 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.

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