

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

Printing date 16.09.2015

Version number: 4

Revision date: 16.09.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking**- 1.1 Product identifier****- Trade name:** **18-9-18****- Article number:**

MS-100072

6118091801

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

No uses advised against.

- 1.3 Details of the supplier of the safety data sheet**- Manufacturer/Supplier:**

Fertilizers & Chemicals Ltd.

P.O.Box 1428, Haifa 31013,

Industrial area Kiryat Ata

Deshanim@icl-group.com

Israel.

- Further information obtainable from:

Safety Department:

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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**- Additional information:**

Safety data sheet available on request.

- 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 | 10-25% |
| CAS: 14887-42-4 EINECS: 238-961-5 | PeKacid |  Xi R36  Eye Irrit. 2, H319 | 2,5-9% |

- Components:

| | | |
|-------------------------------------|-----------------------------------|---------|
| CAS: 7783-20-2 EINECS: 231-984-1 | ammonium sulphate | 25-50% |
| CAS: 7447-40-7 EINECS: 231-211-8 | potassium chloride | 25-50% |
| CAS: 7722-76-1 EINECS: 231-764-5 | ammonium dihydrogenorthophosphate | 2,5-10% |

- **SVHC** None

- **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.

Check the casualty's state of consciousness, breathing and pulse; put in emergency position or revive.

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

- After skin contact:

Wash with water and soap.

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.

A person vomiting while laying on their back should be turned onto their side.

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:** None

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- 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)

Hydrogen chloride (HCl)

Chlorine (Cl₂)

Sulfur oxides (SO_x)

- 5.3 Advice for firefighters

Wear self-contained respiratory protective device.

Wear fully protective suit.

- Protective equipment:

Wear fully protective suit.

Do not inhale explosion gases or combustion gases.

- Additional information Move containers from fire area if possible to do so without risk.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

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

Avoid formation of dust.

Ensure adequate ventilation

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.

- 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

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

Avoid contact with eyes, skin and clothing.

Keep away from heat and direct sunlight.

Keep receptacles tightly sealed.

Prevent formation of dust.

Ensure good ventilation/exhaustion at the workplace.

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

Protect from humidity and water.

Protect from heat and direct sunlight

- Information about storage in one common storage facility:

Store away from flammable substances.

Store away from: Chlorates, Nitrates and Alkalies.

Store away from oxidising agents.

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Store away from water.

- 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.

- 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
- DNELs For Ingredients:

- For workers:
7783-20-2 ammonium sulphate

Dermal DNEL: Long-term-systemic effects(W) 42,7 mg/kg bw/day (())

Inhalative DNEL: Long-term-systemic effect(W) 11,2 mg/m³ (())

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 (())

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/m³ (())

14887-42-4 PeKacid

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

- For general population:
7783-20-2 ammonium sulphate

Oral DNEL: Short-term-systemic effect(P) 6,4 mg/kg bw/day (())

Dermal DNEL: Long-term-systemic effect(P) 12,8 mg/kg bw/day (())

Inhalative DNEL: Long-term-systemic effect(P) 1,7 mg/m³ (())

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 (())

7722-76-1 ammonium dihydrogenorthophosphate

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/m³ (())

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

- 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.
Do not eat, drink, smoke or sniff while working.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.

- 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
vinyl 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:

Safety glasses



Tightly sealed goggles

- Body protection:

Protective work clothing
Boots

- Risk management measures

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

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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: 3,3±0,5

- Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

- Flash point: Not applicable.

- Flammability (solid, gaseous): Not determined.

- 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.

- Oxidising properties None

- 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: 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.

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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:** To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions** BrF₃ , KMnO₄ + Sulphuric acid
- **10.4 Conditions to avoid**
 - Water
 - Store away from flammable substances.
 - Dusting conditions, extreme humidity and excess heat.
- **10.5 Incompatible materials:**
 - Alkalies
 - Oxidizers
 - Combustible materials
 - Nitrates, Chlorates
- **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)
 - Nitrogen oxides (NO_x)
 - Hydrogen chloride (HCl)
 - Chlorine

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

7783-20-2 ammonium sulphate

| | | |
|--------|------|-------------------|
| Dermal | LD50 | >2000 mg/kg (rat) |
|--------|------|-------------------|

57-13-6 urea

| | | |
|------|------|------------------|
| Oral | LD50 | 8471 mg/kg (rat) |
|------|------|------------------|

7722-76-1 ammonium dihydrogenorthophosphate

| | | |
|------|------|------------------------------|
| Oral | LD50 | >2000 mg/kg (rat) (OECD 425) |
|------|------|------------------------------|

| | | |
|--------|------|--------------------------------|
| Dermal | LD50 | >5000 mg/kg (rat) ((OECD 402)) |
|--------|------|--------------------------------|

14887-42-4 PeKacid

| | | |
|------|------|--------------------------------|
| Oral | LD50 | >2000 mg/kg (rat) ((OECD 425)) |
|------|------|--------------------------------|

| | | |
|--------|------|--------------------------------|
| Dermal | LD50 | >2000 mg/kg (rat) ((OECD 402)) |
|--------|------|--------------------------------|

7447-40-7 potassium chloride

| | | |
|------|------|------------------|
| Oral | LD50 | 3020 mg/kg (rat) |
|------|------|------------------|

- **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.

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- 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.

- Repeated dose toxicity No classification is necessary

- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Mutagenicity: None

- Carcinogenicity No data available

- Toxicity for reproduction: No classification is necessary

SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity:
7783-20-2 ammonium sulphate

| | |
|---------------|--|
| EC50 (static) | 121,7 mg/l (daphnia magna) (48h) |
| LC50/96h | 53 mg NO ₃ ⁻ per lite (fish <i>Oncorhynchus mykiss</i>) |

57-13-6 urea

| | |
|----------|--|
| LC50/24h | >10000 mg/l (daphnia magna) |
| LC50/96h | 6810 mg NO ₃ ⁻ per lite (Fish) |

7722-76-1 ammonium dihydrogenorthophosphate

| | |
|-------------------|--|
| LC50/96h (static) | >85,9 mg NO ₃ ⁻ per lite (fish <i>Oncorhynchus mykiss</i>) (OECD 203) |
|-------------------|--|

7447-40-7 potassium chloride

| | |
|-----------|--|
| EC50/120h | 1337 mg/l (algae) |
| EC50/21d | 130 mg/l (daphnia magna) |
| LC50/96h | 880 mg NO ₃ ⁻ per lite (Fathead minnow fish) |

- 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 hazard 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.

- 12.6 Other adverse effects No further relevant information available.

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SECTION 13: Disposal considerations

- 13.1 Waste treatment methods

- 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

- 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

- Hazard statements

None

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SECTION 16: Other information**- Relevant phrases**

H319 Causes serious eye irritation.

R36 Irritating to eyes.

- 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)

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard 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.

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