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

- ***1.1 Product identifier***
- ***Trade name:*** ***NV 18-24-18***

- ***Article number:***
MS-200020
6118241801
- ***1.2 Relevant identified uses of the substance or mixture and uses advised against***
Fertilizer.
Identified uses
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:
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***
The product is not classified according to the CLP regulation.

- ***Classification according to Directive 67/548/EEC or Directive 1999/45/EC*** Not applicable.
- ***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
- ***2.3 Other hazards***
- ***Results of PBT and vPvB assessment***
- ***PBT:*** Not applicable.
- ***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: 7757-79-1 EINECS: 231-818-8	potassium nitrate O R8 Ox. Sol. 2, H272	25-45%
CAS: 57-13-6 EINECS: 200-315-5	urea substance with a Community workplace exposure limit	10-25%
- ***Components:***		
CAS: 7722-76-1 EINECS: 231-764-5	ammonium dihydrogenorthophosphate	25-50%

- ***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:***
Check the casualty's state of consciousness, breathing and pulse; put in emergency position or revive.
No special measures required.
- ***After inhalation:*** Possible symptoms are coughing and/or dyspnea.
- ***After skin contact:***
Change contaminated clothing immediately. Rinse with plenty of water for at least 20 minutes.
If skin irritation continues, consult a doctor.
- ***After eye contact:*** Rinse opened eye for several minutes under running water.
- ***After swallowing:***
Possible symptoms are nausea and/or vomiting.
A person vomiting while laying on their back should be turned onto their side.
NOTE: Never give an unconscious person anything to drink.
Rinse out mouth and then drink plenty of water.
- ***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:*** CO2, powder or water spray. Fight larger fires with water spray.
- ***5.2 Special hazards arising from the substance or mixture***
Phosphorus oxides (e.g. P2O5)
Toxic metal compounds (K_2O)
Nitrogen oxides (NOx)
- ***5.3 Advice for firefighters***
- ***Protective equipment:***
Wear fully protective suit.

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Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- ***6.1 Personal precautions, protective equipment and emergency procedures***
  Ensure adequate ventilation
  Avoid formation of dust.
- ***6.2 Environmental precautions:*** Do not allow to enter sewers/ surface or ground water.
- ***6.3 Methods and material for containment and cleaning up:***
  Shovel or sweep up. Do not create a powder cloud by using a brush or compressed air.
  Prevent product from entering drains.
- ***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***
  Provide suction extractors if dust is formed.
  Avoid contact with eyes, skin and clothing.
  No special measures required.
- ***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.
- ***Information about storage in one common storage facility:*** Keep away from food, drink and animal feeding stuff.
- ***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:***		
57-13-6 urea		
Dermal	DNEL: Short-term-systemic effect(W)	580 mg/kg bw/day (())

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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 (())
7757-79-1 potassium nitrate		
Dermal	DNEL: Long-term-systemic effects(W)	20,8 mg/kg bw/day (())
Inhalative	DNEL: Long-term-systemic effect(W)	36,7 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 (())
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 (())
7757-79-1 potassium nitrate		
Oral	DNEL: Long-term-systemic effect(P)	12,5 mg/kg bw/day (())
Dermal	DNEL: Long-term-systemic effect(P)	12,5 mg/kg bw/day (())
Inhalative	DNEL: Long-term-systemic effect(P)	10,9 mg/m³ (())

- ***PNECs***

57-13-6 urea	
PNEC Aqua (freshwater):	0,047 mg/l (())
PNEC aqua (marine water):	0,047 mg/l (())
7757-79-1 potassium nitrate	
PNEC Aqua (freshwater):	0,45 mg/l (())
PNEC STP:	18 mg/l (())
PNEC aqua (intermittent releases):	4,5 mg/l (())
PNEC aqua (marine water):	0,045 mg/l (())
7722-76-1 ammonium dihydrogenorthophosphate	
PNEC Aqua (freshwater):	1,7 mg/l (())
PNEC STP:	10 mg/l (())
PNEC aqua (intermittent releases):	17 mg/l (())
PNEC aqua (marine water):	0,17 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***
- ***Personal protective equipment:***
- ***General protective and hygienic measures:***
The usual precautionary measures are to be adhered to when handling chemicals.
- ***Respiratory protection:*** Not required.

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- ***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***

PVC 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

SECTION 9: Physical and chemical properties

- ***9.1 Information on basic physical and chemical properties***	
- ***General Information***	
- ***Appearance:***	
Form:	Crystalline powder
Colour:	Off white
- ***Odour:***	Characteristic
- ***Odour threshold:***	Not determined.
- ***pH-value (10 g/l) at 25 °C:***	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.
- ***Ignition temperature:***	
Decomposition temperature:	Not determined.
- ***Self-igniting:***	Product is not selfigniting.

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- ***Danger of explosion:***	Product does not present an explosion hazard.
- ***Explosion limits:*** - ***Lower:*** - ***Upper:***	Not applicable Not determined. Not determined.
- ***Vapour pressure:***	Not applicable.
- ***Density:*** - ***Relative density*** - ***Vapour density*** - ***Evaporation rate***	Not determined. Not determined. Not applicable. Not applicable.
- ***Solubility in / Miscibility with water:***	Soluble.
- ***Partition coefficient (n-octanol/water):***	Not determined.
- ***Viscosity:*** - ***Dynamic:*** - ***Kinematic:***	Not applicable This product is solid. Viscosity is only relevant to liquids. Not applicable. Not applicable.
- ***Solvent content:*** ***Organic solvents:***	 0,0 %
Solids content: - ***9.2 Other information***	100,0 % No further relevant information available.

SECTION 10: Stability and reactivity

- ***10.1 Reactivity*** No decomposition if used according to specifications.
- ***10.2 Chemical stability***
- ***Thermal decomposition / conditions to be avoided:*** No decomposition if used according to specifications.
- ***10.3 Possibility of hazardous reactions*** No dangerous reactions known.
- ***10.4 Conditions to avoid*** Source of ignition, heat, fire, high humidity, sparks.
- ***10.5 Incompatible materials:*** Combustible materials
- ***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 (K_2O)
Nitrogen oxides (NOx)

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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7722-76-1 ammonium dihydrogenorthophosphate		
Oral	LD50	>2000 mg/kg (rat) (OECD 425)
Dermal	LD50	>5000 mg/kg (rat) ((OECD 402))
7757-79-1 potassium nitrate		
Oral	LD50	3750 mg/kg (rat)

- ***Primary irritant effect:***
- ***on the skin:*** No irritant effect.
- ***on the eye:*** No irritating effect.
- ***by Inhalation:*** Inhalation might cause sensitization.
- ***by Ingestion:*** Ingestion might cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- ***Sensitization:*** No sensitizing 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.

SECTION 12: Ecological information

- ***12.1 Toxicity***

- ***Aquatic toxicity:***	
57-13-6 urea	
LC50/24h	>10000 mg/l (daphnia magna)
LC50/96h	6810 mg/l (Fish)
7722-76-1 ammonium dihydrogenorthophosphate	
LC50/96h (static)	>85,9 mg/l (fish Oncorhynchus mykiss) (OECD 203)
7757-79-1 potassium nitrate	
EC50	>1700 mg/l (algae) (10 days)
LC50/48h (static)	490 mg/l (daphnia magna)
LC50/96h	1378 mg/l (Fish) (OECD 203)

- ***12.2 Persistence and degradability*** No further relevant information available.
- ***12.3 Bioaccumulative potential*** No further relevant information available.
- ***12.4 Mobility in soil*** No further relevant information available.
- ***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*** Smaller quantities can be disposed of with household waste.
- ***European waste catalogue*** 02 01 08* agrochemical waste containing dangerous substances.

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- ***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***	Not classified for transport
- ***14.2 UN proper shipping name*** - ***DOT***	None NOT REGULATED FOR ROAD TRANSPORTATION
- ***14.3 Transport hazard class(es)***	None
- ***14.4 Packing group***	Not applicable
- ***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

SECTION 16: Other information

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.
Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or governmental regulation.

- ***Relevant phrases***

H272 May intensify fire; oxidiser.

R8 Contact with combustible material may cause fire.

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- ***Contact:***
  Regulatory Affairs Department
  Tel: +972-4-8468255
  Ella.Rozenblit@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 Organization
  GHS: Globally Harmonized 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)
  Ox. Sol. 2: Oxidising Solids, Hazard Category 2
- ***Reason for revision:*** Periodical review

EU