Conforms to EU Directive 91/155/EEC, as amended by 2001/58/EC - United Kingdom (UK)

# **SAFETY DATA SHEET**

Hi-Green 15-2-20 + Mg



# 1. Identification of the substance/preparation and company/undertaking

#### Identification of the substance or preparation

Product name	: Hi-Green 15-2-20+Mg
Trade name	: Hi-Green 15-2-20+Mg
Fertilizer formula	: 15-2-20 + Mg
Chemical formula	: Not applicable/Mixture.
Use of the substance/preparation	: Fertilizers.
Company/undertaking identified	<u>cation</u>
Manufacturer/Supplier	Haifa Chemicals Ltd.

P.O. Box 10809, Haifa Bay 26120, Israel Tel: 972-4-8469616 Fax: 972-4-8469953 Email: specialty@haifachem.co.il

Emergency telephone number : 972-4-8469603/4

#### 2. Composition/information on ingredients

Ingredient name	CAS number	%	EC number	Classification
Urea Formaldehyde Potassiumnitrate (Prills or coated) Monoammoniumphosphate Ammoniumsulfate Magnesiumsulfate	200-315-5 7757-79-1 7722-76-1 7783-20-2 14567-64-7		200-818-8 231-818-8 231-764-5 231-984-1 231-298-2	Not classified Not classified. Not classified. R52 Not classified
See section 16 for the full text of the R-phrases declared above				

Occupational exposure limits, if available, are listed in section 8.

### 3. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification

: Not classified.

See section 11 for more detailed information on health effects and symptoms.

### 4. First-aid measures

First-aid measures	
Eye contact	<ul> <li>In case of contact with eyes, rinse immediately with plenty of water. Obtain medical attention if symptoms occur.</li> </ul>
Skin contact	: Wash with soap and water. Obtain medical attention if symptoms occur.
Inhalation	<ul> <li>If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.</li> </ul>
Ingestion	: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

See section 11 for more detailed information on health effects and symptoms.

### 5. Fire-fighting measures

Extinguishing media	
Suitable	: Use an extinguishing agent suitable for the surrounding fire.
Not suitable	: None known.
Special exposure hazards	: No specific hazard.
Hazardous thermal decomposition products	: Thermal decomposition products are dependent on temperature conditions.
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>
Remark	: Non-explosive under normal conditions. Not considered an oxidizer because of the prilled/coated form of the salts.

#### 6. Accidental release measures

Personal precautions	: Use suitable protective equipment.
Environmental precautions	: Avoid dispersal of spilled material, runoff and contact with waterways, drains and sewers.
Methods for cleaning up	: Use a tool to scoop up solid or absorbed material and place into appropriate labelled waste container. Avoid creating dusty conditions and prevent wind dispersal.

#### 7. Handling and storage

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Do not ingest. Avoid contact of spilled material and runoff with surface waterways. Wash thoroughly after handling.
Keep container tightly closed. Keep container in a cool, well-ventilated area.

#### Storage Packaging materials

Recommended

: Use original container.

## 8. Exposure controls/personal protection

Ingredient name	Occupational exposure limits
Monoammonium Phosphate	<b>EU OEL (Europe).</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Dust
Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphe or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.
Exposure controls	
Occupational exposure controls	: No special ventilation requirements. Good general ventilation should be sufficient to contrairborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposur below any recommended or statutory limits.
Respiratory protection	: A respirator is not needed under normal and intended conditions of product use. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.
Hand protection	: Not required under normal conditions of uses. Gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Eye protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to dusts.
Skin protection	: No special protective clothing is required.
	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure the comply with the requirements of environmental protection legislation.
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#### 9. Physical and chemical properties

General information	
Appearance	
Physical state	: Solid. (Granular solid.)
Colour	: Grey.
Odour	: Odourless.
Important health, safety and	d environmental information
рН	: Not applicable because of low solubility in water.
Melting point	: Decomposition temperature: >200 ℃ (392 °F)
Explosive properties	: Risks of explosion of the product in presence of mechanical impact: Not applicable. Risks of explosion of the product in presence of static discharge: Not applicable.
Bulk density	: 0.95 to 1.1 (Water = 1)
Solubility	: Dissolve very slowly, polymer coating is insoluble.
Octanol/water partition coefficient	: Not applicable because of low solubility in water.

### 10. Stability and reactivity

Stability	:	Stable under recommended storage and handling conditions (see section 7).
Conditions to avoid	:	Elevated temperatures. Avoid all possible sources of ignition (spark or flame).
Materials to avoid	:	Reactive with reducing materials, metals, acids, alkalis and organic materials.
Hazardous decomposition products	:	Under fire - oxides of nitrogen, phosphorous, potassium when strongly heated it melts and decomposes releasing toxic fumes. In contact with alkaline materials it may release ammonia gas.

### 11. Toxicological information

#### Potential acute health effects

Inhalation Ingestion Skin contact Eye contact	<ul> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> <li>Moderately irritating to eyes.</li> </ul>			
Acute toxicity				
Product/ingredient name Ammonium Sulfate	<mark>Test</mark> LD50 LD50	<mark>Result</mark> 2840 mg/kg 640 mg/kg	<mark>Route</mark> Oral Oral	<mark>Species</mark> Rat Mouse
Potassium Nitrate	LD50 LD50	3750 mg/kg 1901 mg/kg	Oral Oral	Rat Rabbit
Urea Monoammonium Phosphate	LD50 LD50 LD50	8471 mg/kg >2000 mg/kg >5000 mg/kg	Oral Oral Dermal	Rat Rat Rabbit

Potential chronic health effectsNot classified or listed by IARC, NTP, OSHA, EU and ACGIH.Carcinogenicity:No known significant effects or critical hazards.Mutagenicity:No known significant effects or critical hazards.Reproductive toxicity:Over-exposure signs/symptoms

Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin	: No known significant effects or critical hazards.

### **12. Ecological information**

Ecotoxicity data			
Product/ingredient name	<u>Species</u>	Period	Result
Ammonium Sulfate	Oncorhynchus mykiss (LC50)	96 hour(s)	6.6 mg/l
	Pimephales promelas (LC50)	96 hour(s)	>20 mg/l
	Daphnia magna (LC50)	96 hour(s)	>20 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	36.7 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	39.2 mg/l
Urea	Daphnia magna (EC50)	48 hour(s)	3910 mg/l
	Poecilia reticulata (LC50)	96 hour(s)	17500 mg/l
Potassium nitrate	Poecilia reticulata (LC50)	96 hour(s)	180 mg/l
	Poecilia reticulata (LC50)	96 hour(s)	188 mg/l
	Poecilia reticulata (LC50)	96 hour(s)	191 mg/l
	Poecilia reticulata (LC50)	96 hour(s)	200 mg/l
Magnesium Sulfate Anhydrous	Daphnia magna (EC50)	48 hour(s)	343.56 mg/l
	Pimephales promelas (LC50)	96 hour(s)	2820 mg/l
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#### Persistence/degradability

Persistence potential : Not applicable.

Other adverse effects

: This material is not expected to be harmful to aquatic organisms.

#### 13. Disposal considerations

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Avoid<br/>dispersal of spilled material, runoff and contact with waterways, drains and sewers.<br/>Disposal of this product, solutions and any by-products should at all times comply with<br/>the requirements of environmental protection and waste disposal legislation and any<br/>regional and local authority requirements.

Hazardous waste

: The classification of the product may meet the criteria for a hazardous waste.

#### 14. Transport information

#### International transport regulations

Classification: ADR/ADNR/IMDG/IATA: Not regulated.

Label: Not applicable. Additional information

15. Regulatory information		
EU regulations		
Risk phrases	: This product is not classified according to EU legislation.	
Safety phrases	: S3/7- Keep container tightly closed in a cool place. S8- Keep container dry.	
Product use	<ul> <li>Classification and labelling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.</li> <li>Industrial applications.</li> </ul>	
Other EU regulations		
EU statistical classification (Tariff Code)	: 32089091	

Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK)	: R22- Harmful if swallowed. R52- Harmful to aquatic organisr	ns.
Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK)	: Xn - Harmful	

### 16. Other information

#### <u>History</u>

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#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.