



Safety Data Sheet

According to Regulation (EC) No. 1907/2006 Article 31

Printing date: 07/01/2020

Version No: 1

Revision date: 07/01/2020

Trade name: **BTD 17-0-0**

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

- 1.1 Product identifier

- Trade name: **BTD 17-0-0**

- Article number:

- 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 31013, Industrial area Kiryat Ata

Deshanim@icl-group.com

Israel.

- **Further information obtainable from:**

Safety Department:

Tel: +972-4-8468407/406

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Tel: +972-4-8468222, +972-4-8468229

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Fax number: +972-4-8468296

2. Hazards identification

- 2.1 Classification of the substance or mixture

- **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion



GHS07

Acute Tox.4, H302 Eye Dam./Irrit.1, H318

- 2.2 Label elements

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

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



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-Hazard pictograms



GHS05

GHS07

-Signal word Danger

-Hazard statements

H302 Harmful if swallowed. H318 Causes serious eye damage.

-Precautionary statements

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection..

P305+351+338: 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.

P301+312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

-Information concerning particular hazards for human and environment: None

- Classification system:

- **NFPA-Ratings for the USA** The product possesses corrosive properties.

- 2.3 Other hazards

- Results of PBT and vPvB assessment

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

3. Composition/information on ingredients

- 3.2 Mixtures

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

CAS: 15245-12-2 EINECS: 239-289-5	nitric acid, ammonium calcium salt Acute Tox. 4 H302 Eye Dam./Irrit. 1 H318	30-47%
CAS: 6484-52-2 EINECS: 229-347-8	ammonium nitrate Ox. Sol. 1, H271	20-30%
CAS: 7732-18-5 EINECS: 231-791-2	water	5-10%

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



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4. First-aid measures

- 4.1 Description of first aid measures

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

After inhalation: If inhaled, remove to fresh air. Get medical attention immediately. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

After skin contact: Wash with soap and water. Get medical attention if irritation develops.

After eye contact: Immediately flush eyes with plenty of water for at least 15 minutes, keeping eyelids open. Check for and remove any contact lenses. Get medical attention immediately.

After swallowing: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Get medical attention if you feel unwell. Get medical attention if adverse health effects persist or are severe.

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

Potential acute health effects

-Eye contact: Causes serious eye damage.

-Inhalation: May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact: No known significant effects or critical hazards.

Ingestion: Harmful if swallowed. May cause burns to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following: pain watering redness

Inhalation: No specific data.

Skin contact: No specific data.

Ingestion: Adverse symptoms may include the following: stomach pains

- **4.3 Indication of any immediate medical attention and special treatment needed:** No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

NOTE: Never give an unconscious person anything to drink. Rinse out mouth and then drink plenty of water.

5. Fire-fighting measures

- 5.1 Extinguishing media

- **Suitable extinguishing agents:** Use flooding quantities of water for extinction.

For safety reasons unsuitable extinguishing agents: Carbon dioxide



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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

No specific fire or explosion hazard. During heating or in case of fire poisonous gases are produced.

Avoid breathing dusts, vapors or fumes from burning materials.

In case of inhalation of decomposition products in a fire, symptoms may be delayed.

Remark: *Non-flammable but has some oxidizing properties and might support combustion in the absence of oxygen. Spontaneous ignition at moderately elevated temperatures can occur when ammonium nitrate is mixed with combustible materials or reducing agents.*

5.3 Advice for firefighters.

-Special precautions for fire- fighters: *Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.*

-Special protective equipment for fire-fighters: *Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.*

6. Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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

- 6.3 Methods and material for containment and cleaning up: *Move containers from spill area. 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.

7. Handling and storage

- 7.1 Precautions for safe handling

- Protective measures: *Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.*



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- **Advice on general occupational hygiene:** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures
- **Information about fire - and explosion protection:**
 Keep ignition sources away - Do not smoke. Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**
- Store in original container. Store in a cool, dry, well ventilated place in tightly closed receptacles.
- **Information about storage in one common storage facility:**
 Do not store together with organic materials. Store away from flammable substances.
 Store away from reducing agents. Store away from heat.
- **Further information about storage conditions:** Protect from humidity and water.
- **7.3 Specific end use(s)** Water soluble fertilizer.
- **Additional information about design of technical facilities:** No further data; see item 7.

8. Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
 If this product contains ingredients with exposure limits, personal, workplace atmosphere 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 monitoring standards, such as the following:
 European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy)
 European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents)
 European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents)
 Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

- **DNELs/ DMELs For Ingredients:**

- **For workers:**

CAS: 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)	98 mg/m ³

- **For general population:**

CAS: 15245-12-2 nitric acid, ammonium calcium salt



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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 ³

- PNECs

CAS: 15245-12-2 nitric acid, ammonium calcium salt

PNEC (Sewage Treatment Plant):	18 mg/l
PNEC Aqua (freshwater):	0,45 mg/l
PNEC (intermittent releases):	4,5 mg/l
PNEC aqua (marine water):	0,045 mg/l

- 8.2 Exposure controls

- Personal protective equipment:

- General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working. Wash hands before breaks and at the end of work.

- Respiratory protection:

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:



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.



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- 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



Tightly sealed goggles

Body protection:

Protective work clothing

Boots

9. Physical and chemical properties

- 9.1 Information on basic physical and chemical properties:	
- General Information	
- Appearance:	
Form:	Liquid.
Colour:	colorless
- Odour:	Not determined.
- Odour threshold:	Not determined.
- pH-value at 25 °C:	5.5
- 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:	Not determined.
- Explosion limits:	Not applicable
- Lower:	Not determined.
- Upper:	Not determined.
- Vapour pressure:	Not applicable.



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- Density:	1.49 g/ml
- 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 determined.
- Dynamic:	Not determined.
- Kinematic:	Not determined.
- Solvent content: Organic solvents:	0,0 %
- Solids content:	Not determined.
- 9.2 Other information	No further relevant information available.

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.
- *Decomposition will occur at elevated temperatures.*
- **10.3 Possibility of hazardous reactions**
Reacts with reducing agents. Reacts with alkali (lyes). May act as an oxidizing agent on organic materials such as wood, paper and fats.
- **10.4 Conditions to avoid**
Combustible materials, Source of ignition, heat, fire, high humidity, sparks. To avoid decomposition do not overheat.
- **10.5 Incompatible materials:**
Alkalis
Organic materials.
Reducing agents.
Acids
Oils
Sawdust
- **10.6 Hazardous decomposition products:**
- Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

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



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-LD/LC50 values relevant for classification:		
CAS: 15245-12-2 nitric acid, ammonium calcium salt		
Oral	LD50	500 mg/kg (rat)
CAS: 15245-12-2 nitric acid, ammonium calcium salt		
Dermal	LD50	>2000 mg/kg (rat)
CAS: 6484-52-2 ammonium nitrate solution		
Oral	LD50	2217 mg/kg (rat)
- Primary irritant effect:		
CAS: 15245-12-2 nitric acid, ammonium calcium salt		
Irritation of eyes	Irritation Sensitisation	irritaaing.cat1 (rabbit) (OECD 405, EC B.5) not sensitising (Guinea pig) (OECD 429, EC B.42)
BDT 17-0-0+8.8Ca		
Oral	LD50 (calculated)	950 (mg/kg)
Dermal	LD50 (calculated)	4320 (mg/kg)

- Primary irritant effect:

- **on the skin:** Might cause skin irritation to susceptible people.

- **on the eye:** Eyes - Severe irritant (rabbit).

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

- **Sensitization:** No sensitizing effects known.

- Toxicokinetics, metabolism and distribution

Rapidly absorbed. 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

12. Ecological information

- 12.1 Toxicity

CAS: 15245-12-2 nitric acid, ammonium calcium salt

Acute LC50 447 mg/l Fresh water (fish) (48h)

Acute EC50 > 100 mg/l Fresh water (Aquatic invertebrates. Daphnia) (48h)

Acute LC50 > 100 mg/l Fresh water (Aquatic plants – Algae) (72h)

Acute EC50 > 1.000 mg/l Activated sludge (Micro-organism -Activated sludge) (3h)

CAS: 6484-52-2 ammonium nitrate solution

Acute LC50 > 500 mg/l Fresh water (fish) (48h)

The product does not show any bioaccumulation phenomena. The product is not expected to harm the environment when used properly according to directions.

- 12.2 Persistence and degradability

Readily biodegradable in plants and soils.

- **12.3 Bioaccumulative potential** Low.

- **12.4 Mobility in soil** This product may move with surface or groundwater flows because its water



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solubility is: high

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

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

13. Disposal considerations

- **13.1 Waste treatment methods** Use up product completely. Packaging material is industrial waste.

- **Recommendation**

- *The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.*

- *Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.*

- **European waste catalogue:** Undetermined.

- **Uncleaned packaging:** 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.

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14. Transport information

-14.1. **UN number:**

Not regulated.

-14.2. **UN proper shipping name:**

-ADR Not regulated.

-IMDG, IATA Not regulated.

-14.3. **Transport hazard class(es):** Not regulated.

-14.4. **Packing group:** -

-14.5. **Environmental hazards:** Not regulated.

-14.6. **Special precautions for user:** -

-14.7. **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**

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**

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

-**Hazard pictograms**



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GHS05

GHS07

- **Signal word** Danger

- **Hazard statements**

H302 Harmful if swallowed. H318 Causes serious eye damage.

- **Precautionary statements**

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection..

P305+351+338: 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.

P301+312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

- **Information concerning particular hazards for human and environment:** None

- **Classification system:**

- **NFPA-Ratings for the USA** The product possesses corrosive properties.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

Seveso II Directive

This product is not controlled under the Seveso II Directive.

National regulations

Hazard class for water: WGK 1.

To our knowledge no other country or state specific regulations are applicable.

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 statements**



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- H302 Harmful if swallowed. H318 Causes serious eye damage.
- H271 May cause fire or explosion; strong oxidiser

- Contact:

- Regulatory Affairs Department
- Tel: +972-4-8468255

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- 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

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 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)

NFPA: National Fire Protection Association (USA)

DNEL: Derived No-Effect Level (REACH)