

**Safety Data Sheet dated 02/07/2018, version 1**

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

### **1.1. Product identifier**

Mixture identification:

EC fertilizer - Inorganic compound fluid fertilizer - NK (S) fertilizer solution 11-5 (57) with Boron (B) Iron (Fe) and Zinc (Zn)

Trade name: **DAGLAS**

### **1.2. Relevant identified uses of the substance or mixture and uses advised against**

Recommended use:

Professional use in agriculture for acknowledged need

Uses advised against:

All uses not listed in the uses recommended.

### **1.3. Details of the supplier of the safety data sheet**

Company:

GREEN HAS ITALIA SPA

Corso Alba 85/89

12043 CANALE (CN)

Tel. 0173 95433

Fax. 0173 979464

www.greenhasitalia.com

Office hours (8/13 - 14/18)

Competent person responsible for the safety data sheet:

security@greenhasitalia.com

### **1.4. Emergency telephone number**

Tel. 0173 95433

Fax. 0173 979464

www.greenhasitalia.com

Office hours (8/13 - 14/18)

Antipoison Center - Ospedale Niguarda Ca' Granda – Milano – Telephone nbr. 02-66101029

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## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

EC regulation criteria 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

### **2.2. Label elements**

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

None

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

### **2.3. Other hazards**

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

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### **SECTION 3: Composition/information on ingredients**

#### **3.1. Substances**

N.A.

#### **3.2. Mixtures**

Hazardous components within the meaning of the CLP regulation and related classification:  
None.

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### **SECTION 4: First aid measures**

#### **4.1. Description of first aid measures**

Call a doctor if you feel unwell and show him, if possible, this material safety data sheet or product label. First aid responders shall wear appropriate personal protective equipment (see SECTION 8.2).

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

#### **4.2. Most important symptoms and effects, both acute and delayed**

None

#### **4.3. Indication of any immediate medical attention and special treatment needed**

Treatment:

None

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### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

Suitable extinguishing media:

Water spray

Carbon dioxide (CO<sub>2</sub>)

Extinguishing media which must not be used for safety reasons:

None

#### **5.2. Special hazards arising from the substance or mixture**

Hazardous thermal decomposition products: product is not combustible; if heated enough, as in case of fire, it could decompose with gas emission.

#### **5.3. Advice for firefighters**

Evacuate and seal off area until fire is completely extinguished, and restrict the access only to trained personnel: have always to wear special protective equipment: facepiece respirator with air supply [ref. EN 137]; protective clothing [ref. EN 469]; protective gloves [ref. EN 659]; boots for firefighters [ref. HO A29-A30]. Avoid breathing vapour/gas. Work windward. Remove containers from fire, if it could be done without any risk. Alternatively, keep containers cool with water spray. Avoid contaminated cooling water to flow down the drains or waterways.

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### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Remove persons to safety.

Remove all sources of ignition.

##### **6.1.1 For non-emergency personnel:**

Operate in accordance with the provisions of the emergency plan. Alert the emergency personnel. Avoid generating and spreading dust. Avoid inhalation of dust and contact with eyes and skin. Where necessary, wear appropriate personal protective equipment (see SECTION 8.2).

**6.1.2 For emergency responders:**

Operate in accordance with the provisions of the emergency plan. Evacuate and isolate the area until complete dispersion of the substance. Ensure adequate ventilation. Avoid generating and spreading dust. Avoid inhalation of dust and contact with eyes and skin. Wear appropriate personal protective equipment (see SECTION 8.2).

**6.2. Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

**6.3. Methods and material for containment and cleaning up**

Wash with plenty of water.

**6.4. Reference to other sections**

See also section 8 and 13

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**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

Store in a cool, well-ventilated place at temperatures between 0° - 40°C

**7.3. Specific end use(s)**

None in particular

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**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

No occupational exposure limit available

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

**8.2. Exposure controls**

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

Not required for normal use.

Protection for hands:

Not required for normal use.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

Dispose of washing water according to local and national regulations and ensure that atmospheric emissions are under control and within the limits of local regulations.

Appropriate engineering controls:

None

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Properties	Value	Method:	Notes
Appearance and colour:	orange liquid	--	--
Odour:	characteristic	--	--
Odour threshold:	Not available	--	--
pH:	8	--	--
Melting point / freezing point:	-5° - 0° C	--	--
Initial boiling point and boiling range:	>100°C	--	--
Flash point:	N.A.	--	Mixture with inorganic components (Annex VII 7.9 Column 2 REACH Regulation)
Evaporation rate:	Not available	--	--
Solid/gas flammability:	N.A.	--	Mixture with inorganic components (Annex VII 7.9 Column 2 REACH Regulation)
Upper/lower flammability or explosive limits:	N.A.	EN 50281-2-1	Non-flammable
Vapour pressure:	N.A.	--	Annex VII 7.5 Column 2 REACH Regulation
Vapour density:	Not available	--	--
Relative density:	1.35 g/ml	--	--
Solubility in water:	Total	--	--
Solubility in oil:	Not available	--	--
Partition coefficient (n-octanol/water):	N.A.	--	Mixture with inorganic components (Annex VII 7.8 Column 2 REACH Regulation)
Auto-ignition temperature:	N.A.	--	Annex VII 7.12 Column 2 REACH Regulation
Decomposition temperature:	Not available	--	--
Viscosity:	11s	Coppa Ford (Ø 4mm)	--
Explosive properties:	N.A.	--	Annex VII 7.11 Column 2 REACH Regulation
Oxidizing properties:	N.A.	--	Annex VII 7.11 Column 2 REACH Regulation

**9.2. Other information**

Properties	Value	Method:	Notes
Miscibility:	Not Relevant	--	--
Fat Solubility:	Not Relevant	--	--
Conductivity:	1133 microS/cm	sol. 1 g/l	--
Substance Groups relevant properties	Not Relevant	--	--

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Strong acids and bases.

**10.2. Chemical stability**

Stable under normal conditions of use and storage.

**10.3. Possibility of hazardous reactions**

None under normal conditions.

**10.4. Conditions to avoid**

Stable under normal conditions.

Can crystallize at temperatures below 0°C.

**10.5. Incompatible materials**

Acids, bases, oxidizing and reducing agents.

**10.6. Hazardous decomposition products**

Stable at room temperature.

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**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

N.A.

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

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**SECTION 12: Ecological information**

**12.1. Toxicity**

Adopt good working practices, so that the product is not released into the environment.

N.A.

**12.2. Persistence and degradability**

N.A.

**12.3. Bioaccumulative potential**

N.A.

**12.4. Mobility in soil**

N.A.

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

vPvB Substances: None - PBT Substances: None

**12.6. Other adverse effects**

None

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**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Recover if possible. In so doing, comply with the local and national regulations currently in force.

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**SECTION 14: Transport information**

**14.1. UN number**

Not classified as dangerous in the meaning of transport regulations.

**14.2. UN proper shipping name**

N.A.

**14.3. Transport hazard class(es)**

N.A.

**14.4. Packing group**

N.A.

**14.5. Environmental hazards**

N.A.

**14.6. Special precautions for user**

N.A.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

N.A.

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**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) 2015/830

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

None

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for the mixture.

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**SECTION 16: Other information**

This safety data sheet has been completely updated in compliance to Regulation 2015/830.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

Workers encharged for product handling should be informed about its hazard and potential risks related to its use and be instructed on the precautions to be taken in order to avoid or limit exposure. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

## Safety Data Sheet DAGLAS



This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.