



SAFETY DATA SHEET

Multicote 15-7-15 & 14-7-14

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Date of issue: 18/09/2014

Date of revision: 13/08/2015

Version no.: 3

Complying with 1907/2006/EEC Regulation of 18 December 2006 ("REACH Regulation")

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

1.1 Product identifier

Product name: Multicote 15-7-15 & 14-7-14

Product type: Polymer coated controlled release fertilizer

Type of fertilizer: Complex NPK fertilizer

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

Use of the substance/preparation: Agriculture - fertilizer.

1.3 Details of the supplier of the safety data sheet

Company/undertaking identification

USA Importer:

Haifa Chemicals North America
307 Cranes Roost Blvd, Suite 2030
Altamonte Springs
Florida 32701
Tel: +1-800- 649- 4944
Fax: +1-(407) 862 6400
E-mail: NorthAmerica@haifa-group.com

European Importer:

Haifa Chemicals Northern Europe
Generaal de Wittelaan 17, bus 16
B-2800 Mechelen, Belgium
Tel: +32-15-270811
Fax: +32-15 270815
E-mail: NorthWestEurope@haifa-group.com

Other Countries Importer

Supplier/Manufacturer:

Haifa Chemicals Ltd.
P.O.Box 15011, Matam-
Haifa, 31905, Israel
Tel: +972-74-7373737
Fax: +972-74-7373733
E-mail: Regulatory@haifa-group.com

E-mail address of person responsible for this SDS: Regulatory@haifa-group.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation): +972-74-7373737

CHEMTREC (U.S.): 1-800-424-9300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200 (OSHA HCS):

Aquatic Acute 3 H402

Aquatic Chronic 3 H412



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Classification in accordance to Regulation (EC) No. 1272/2008 (CLP):
Aquatic Chronic 3 H412

See section 16 for the full text of the H-statements declared above.

2.2 Label elements

Labelling according to 29 CFR 1910.1200 (OSHA HCS)

Hazard pictogram(s): Not required

Signal word: Not required

Hazard statement(s):

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

P501: Dispose of contents/container to an authorised waste collection point

Labelling in accordance with Regulation 1272/2008 (CLP)

Hazard pictogram(s): Not required

Signal word: Not required

Hazard statement(s):

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

P501: Dispose of contents/container to an authorised waste collection point.

2.3 Other hazard

Not available

SECTION 3: Composition/information on ingredients

3.1 Substances:

Product/substance name	Identifiers	%	CLP Class.	OSHA HCS Class.
Ammonium nitrate	CAS number: 6484-52-2 EC number: 229-347-8 REACH registration no(s): 01-2119490981-27	35-44	Ox. Sol. 3 H272 Eye Irrit. 2 H319	Ox. Sol. 3 H272 Eye Irrit. 2A H319
Diiron tris(sulphate)	CAS number: 10028-22-5 EC number: 233-072-9 REACH registration no(s): N/A	1.5-<3	Acute Tox. 4 H302 Eye Dam. 1 H318 Skin Irrit. 2 H315	Acute Tox. 4 H302 Eye Dam. 1 H318 Skin Irrit. 2 H315
Borax decahydrate*	CAS number: 1303-96-4 EC number: N/A REACH registration no(s): N/A	0.2-0.3	Repr. 1A H360FD	Repr. 1A H360
Copper sulfate pentahydrate	CAS number: 7758-99-8 EC number: N/A REACH registration no(s): N/A	0.01-0.1	Acute Tox. 4 H302 Eye Irrit. 2 H319 Skin Irrit. 2 H315 Aquatic Acute 1 H400 Aquatic Chronic 1 H410	Acute Tox. 4 H302 Eye Irrit. 2A H319 Skin Irrit. 2 H315 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

*Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH).



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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eyes contact: In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Get medical attention if irritation occurs.

Inhalation: Remove the victim from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

Ingestion: **Do not induce vomiting.** If victim is conscious, wash mouth thoroughly with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

See section 2.2 (Label elements) and/or section 11 (Toxicological information) for the most important known symptoms and effects.

4.3 Indication of any immediate medical attention and special treatment needed

Not available

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable: Use an extinguishing agent suitable for surrounding fire.

Not suitable: N/A

5.2 Special hazards arising from the substance or mixture

Hazardous thermal decomposition products: under fire emits toxic and irritating fumes.

5.3 Advice for firefighters

Special protective equipment for fire fighters: Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing dust. Ensure adequate ventilation. Ventilate area of spill. Avoid formation of dust.

6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and materials for containment and cleaning up

Pick up and place in a suitable container for reclamation or disposal according to local / national regulations, using a method that does not generate dust.



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6.4 Reference to other sections

See Section 1 for emergency contact information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of dust. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice. Prevent formation of dust.

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 measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep containers tightly closed, in a dry, cool and well ventilated place. Keep away from incompatible materials mentioned in section 10.5. Use original container. Keep away from heat. Avoid storing the fertilizer in direct sunlight. Protect from extreme humidity.

7.3 Specific end use(s): N/A

SECTION 8: Exposure control/personal protection

8.1 Control parameters

Occupational exposure limits values:

Product/substance name	Occupational exposure limits
Diiron tris(sulphate)	ACGIH-TLV 1 mg(Fe)/m ³ (TWA)
Borax decahydrate	ACGIH-TLV 2 mg/m ³ (TWA), 6 mg/m ³ (STEL), inhalable

Derived effects levels:

Recommended occupational and consumer exposure limit values (following from the preformed CSA)-

Ammonium nitrate:

Exposure pattern	Derived No Effect Level (DNEL)	
	Workers	General population
Oral	N/A	12.8 mg/kg bw/day
Dermal	21.3 mg/kg bw/day	12.8 mg/kg bw/day
Inhalation	37.6 mg/m ³	11.1 mg/m ³

8.2 Exposure controls

Engineering measures

Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Person Protective measures

Respiratory protection: Disposable particulate mask. Be sure to use an approved/certified equipment or equivalent equipment. Wear appropriate respirator when ventilation is inadequate.

Hand protection: Wear protective gloves to prevent skin exposure.



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Eye protection: Wear protective safety glasses.

Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

Environmental exposure controls: Not available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Solid

Odour: N/A

Odour threshold: N/A

pH: N/A

Melting point/Freezing point: N/A

Initial boiling point/boiling range: N/A

Flash point: N/A

Evaporation rate: N/A

Flammability: N/A

Upper/lower flammability or explosive limits: N/A

Vapor pressure: N/A

Vapor density: N/A

Relative Density: N/A

Solubility(ies): N/A

Partition coefficient Octanol/Water: N/A

Auto-ignition temperature: N/A

Decomposition temperature: N/A

Viscosity: N/A

Explosive properties: N/A

Oxidizing properties: N/A

9.2 Other information

N/A

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients

10.2 Chemical stability

The product is stable under normal handling and storage conditions described in Section 7.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

Dusting conditions, extreme humidity, and excess heat.

10.5 Incompatible materials

Reducing agents, strong acids and bases, metal powders, combustible materials, chromates, zinc, copper and copper alloys, and chlorates.

10.6 Hazardous decomposition products

Other decomposition products: not available

In the event of fire: see section 5.



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Product/substance name	Test	Species	Dose
Ammonium nitrate	LD50, Oral	Rat	>2950 mg/kg
	LC50, Inhalation	Rat	>88.8 mg/l
	LD50, Dermal	Rat	>5000 mg/kg
Borax decahydrate	LD50, Oral	Rat	2660 mg/kg
Copper sulfate pentahydrate	LD50, Oral	Rat	300 mg/kg

Skin corrosion/irritation: N/A

Serious eye damage/irritation: N/A

Respiratory or skin sensitization: N/A

Reproductive toxicity: N/A

Carcinogenicity: N/A

Germ cell mutagenicity: N/A

Specific target organ toxicity (single exposure): N/A

Specific target organ toxicity (repeated exposure): N/A

Aspiration hazard: N/A

Other effects:

Causes mild skin irritation.

SECTION 12: Ecological information

12.1 Toxicity

Product/substance name	Toxicity to fish	Toxicity to crustaceans	Toxicity to algae
Ammonium nitrate	LC50/48h (carp): 447 mg/L	EC50 (48 h): 490 mg/L	EC50 (10 d): > 1700 mg/L

Predicted effect concentrations:

Product/substance name	Type	Compartment Detail	Value	Method Detail
Ammonium nitrate	PNEC	Fresh water	0.45 mg/l	Assessment Factors
	PNEC	Marine	0.045 mg/l	Assessment Factors

12.2 Persistence and Degradability

Not available

12.3 Bioaccumulative potential

Not available



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12.4 Mobility in soil

Not available

12.5 Results of PBT and vPvB assessment

Not available

12.6 Other adverse effects

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Substances, which contribute to eutrophication: Nitrates

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Packing

Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14: Transport information

14.1 Un number

ADR/RID: - IMDG: 2071 IATA: 2071 DOT (US): 2071

14.2 UN proper shipping name

ADR/RID: Not subject to ADR

IMDG: AMMONIUM NITRATE BASED FERTILIZER

IATA: Ammonium nitrate fertilizers

DOT (US): Ammonium nitrate based fertilizer

14.3 Transport hazard class(es)

ADR/RID: - IMDG: 9 IATA: 9 DOT (US): 9

14.4 Packing group

ADR/RID: - IMDG: III IATA: III DOT (US): III

14.5 Environmental hazard

ADR/RID: - IMDG: - IATA: - DOT (US): -

14.6 Special precautions for user

Not available

14.7 Transport to bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available

SECTION 15: Regulatory information

This SDS complies with the following requirements of:

EU Directives 67/548/EEC (DSD) and 1999/45/EC (DPD), including amendments

EU Regulation (EC) No.1907/2006 (REACH) including amendments



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Regulation (EC) No.1272/2008 (CLP)
29 CFR 1910.1200 (OSHA HCS)

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

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA inventory

Ammonium nitrate CAS 6484-52-2
Diiron tris(sulphate) CAS 10028-22-5
Borax decahydrate CAS 1303-96-4

Borax decahydrate

Candidate List of Substances of Very High Concern for Authorisation
Toxic for reproduction (article 57c)

15.2 Chemical safety assessment

In accordance with REACH article 14, a Chemical Safety Assessment has been carried out for Ammonium nitrate.

SECTION 16: Other information

HMIS Rating

Health hazard: 1 Chronic Health Hazard: Flammability: 0 Physical Hazard 0

NFPA Rating

Health hazard: 1 Fire Hazard: 0 Reactivity Hazard: 0

Full text of Hazards Statements referred to in sections 2 and 3:

Ox. Sol. - Oxidising solid
Eye Irrit.- Eye irritation
Skin Irrit.-Skin irritation
Acute Tox.- Acute toxicity
Eye dam.- Serious eye damage
Repr. - Reproductive toxicity
Aquatic Acute - Hazardous to the aquatic environment
Aquatic Chronic - Hazardous to the aquatic environment
H272: May intensify fire; oxidizer.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H360: May damage fertility or the unborn child.
H360FD: May damage fertility. May damage the unborn child.
H400: Very toxic to aquatic life.
H402: Harmful to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.

Training advice: Before using/handling the product one must read carefully present SDS.

Key Legend Information:

CAS- Chemical Abstract Service



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ACGIH- American Conference of Governmental Industrial Hygienists

OSHA- Occupational Safety and Health Administration

NTP- National Toxicology program

IARC- International Agency for Research on Cancer

N/A- Not available

R-phrases- Risk phrases

H-statements- Hazard statements

TLV- Threshold Limit Value

TWA- Time-weighted average

STEL- Short-Term Exposure Limit

CSA- Chemical safety assessment

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