



## SAFETY DATA SHEET

Multicote Potassium nitrate, Poly-Feed 5.0.0 not classified, Poly-Feed 5.1.1 not classified, Poly-Feed 5.0.1 not classified, Haifa STPP, Haifa Bittermag, Poly-Feed 10.0.0 with AN, Poly-Feed 10.0.1 with AN, Haifa Turbo-K 12-10-16+Mg+S+B Fe Zn, T 352 BIOCIDE, Haifa-MPK, Haifa Ammonium sulfate, Multicote or multicote turf or multicote agri controlled release fertilizers, Multicote or multigreen or multigro controlled release fertilizers, Food blend group 6, Food blends group 4, Food blend group 5, Calcium Nitrate Fertilise

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Date of issue: 15/12/2016

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

#### **1.1 Product identifier**

**Product name:** Multicote Potassium nitrate, Poly-Feed 5.0.0 not classified, Poly-Feed 5.1.1 not classified, Poly-Feed 5.0.1 not classified, Haifa STPP, Haifa Bittermag, Poly-Feed 10.0.0 with AN, Poly-Feed 10.0.1 with AN, Haifa Turbo-K 12-10-16+Mg+S+B Fe Zn, T 352 BIOCIDE, Haifa-MPK, Haifa Ammonium sulfate, Multicote or multicote turf or multicote agri controlled release fertilizers, Multicote or multigreen or multigro controlled release fertilizers, Food blend group 6, Food blends group 4, Food blend group 5, Calcium Nitrate Fertiliser

**Synonyms:** Poly-Feed GG, Poly-Feed Drip, Poly-feed Foliar, Poly-Feed Mar, Multifeed, Haifa Soluble, Soluplant, Eure-Ka, Sodium Tripolyphosphate, Haifa STPP, STPP-GL, STPP-GH, STPP-PL, STPP-PH, STPP-HUPL, STPP-HUPM, STPP-HUPH 211, M-212, M-216S, M-217, M-218, Pentasodium triphosphate, Sodium triphosphate, triphosphoric acid pentasodium salt, STPP, Phosphoric acid monopotassium salt, MPK, Potassium dihydrogenorthophosphate, Potassium phosphate monobasic, Actamaster, Ammonium sulphate, Diammonium sulfate, Diammonium sulphate, Dolamin, Mascagnite, Sulfatom ammonia sulfuric acid diammonium salt, M269, M276, M349, M-T5, T20, M246S, M946, M490, M946A, M488

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

Industrial, fertilizer.

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

Haifa Australia Pty Ltd  
Unit 14/328 Reserve Road  
Cheltenham VIC 3192  
Australia  
Phone: +972-3-9583 4691

**E-mail address of person responsible for this SDS:** [Regulatory@haifa-group.com](mailto:Regulatory@haifa-group.com)

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

**Emergency telephone number (with hours of operation):** 0400 119 852 (Australia only, 24 hours)

### **SECTION 2: Hazards identification**

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

**Classification according to GHS:**  
Not classified

#### **2.2 Label elements**

**Labelling according to GHS:**  
**Hazard pictogram(s):** Not required  
**Signal word:** Not required  
**Hazard statement(s):** Not required  
**Precautionary Statement(s):** Not required



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### 2.3 Other hazard

Not available

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

### 3.2 Mixtures:

Ingredient name	Identifiers	%	GHS Classification
Potassium nitrate	CAS number: 7757-79-1 EC number: 231-818-8	0-100	Ox. Sol. 3 H272
Ammonium nitrate	CAS number: 6484-52-2 EC number: 229-347-8	0-40	Ox. Sol. 3 H272 Eye Irrit. 2 H319: 80 % < C ≤ 100 %
Disodium tetraborate decahydrate, borax decahydrate	CAS number: 1303-96-4 EC number: 215-540-4	0-4	Eye Irrit. 2 H319 Repr. 1B H360: C ≥ 8.5%
Urea	CAS number: 57-13-6 EC number: 200-315-5	0-100	Not classified
Monoammonium phosphate	CAS number: 7722-76-1 EC number: 231-764-5	0-100	Skin Irrit. 2 H315 Eye Irrit. 2A H319
Potassium dihydrogenorthophosphate	CAS number: 7778-77-0 EC number: 231-913-4	0-100	Not classified
Sodium tripolyphosphate anhydrous	CAS number: 7758-29-4 EC number: 231-838-7	0-100	Not classified
Magnesium sulfate	CAS number: 7487-88-9 EC number: 231-298-2	0-100	Not classified
Tetrapotassium pyrophosphate	CAS number: 7320-34-5 EC number: 230-785-7	0-100	Eye Irrit. 2 H319
Disodium pyrophosphate	CAS number: 7758-16-9 EC number: 231-835-0	0-10	Eye Irrit. 2 H319
Ammonium sulfate	CAS number: 7783-20-2 EC number: 231-984-1	0-100	Not classified
Zinc sulfate	CAS number: 7733-02-0 EC number: 231-793-3	0-<1	Acute Tox. 4 H302 Eye Dam. 1 H318 Aquatic Acute 1 H400 Aquatic Chronic 1 H410
Iron (II) sulfate	CAS number: 7720-78-7 EC number: 231-753-5	0-<1	Acute Tox. 4 H302 Eye Irrit. 2 H319 Skin Irrit. 2 H315
Ground Colemanite	CAS number: 12291-65-5 EC number: N/A	0-<1	Not classified
Polymer coating	CAS number: N/A EC number: N/A	0-7	Not available
Calcium nitrate and ammonium nitrate double salt (<10% ammonium nitrate)	CAS number: N/A EC number: N/A	0-100	Not classified

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

**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.**



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### SECTION 4: First aid measures

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#### **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.
- Skin contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Get medical attention.
- 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

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### SECTION 5: Fire-fighting measures

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#### **5.1 Extinguishing media**

Suitable: Use extinguishing media for surrounding fires.

Not suitable: N/A

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

Hazardous combustion products: oxides of nitrogen, carbon dioxide, hydrogen cyanide, oxides of Sulphur, oxides of magnesium, oxides of potassium, oxides of phosphorous, oxides of sodium, ammonia, carbon dioxide, hydrogen cyanide and 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.

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### SECTION 6: Accidental release measures

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

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Ventilate area of spill. Avoid dust formation. Avoid breathing dust.

#### **6.2 Environmental precautions**

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



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### **6.3 Methods and materials for containment and cleaning up**

Use a tool to scoop up solid material and place into an appropriate labeled waste container. Do not mix with sawdust or other combustible material. Avoid creating dusty conditions and prevent wind dispersal. Keep out of waterways.

### **6.4 Reference to other sections**

See Section 1 for emergency contact information.

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## **SECTION 7: Handling and storage**

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### **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. Avoid raising dust. Keep away from naked flames/heat.

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 container tightly closed in a dry, cool and well-ventilated place. Store in closed original container. Protect from moisture and heat. Do not store together with reducing agents, organic materials, combustible materials, metals, chromates, zinc, copper alkalis, strong oxidizing agents, strong bases and strong acids. Keep away from heat, spark and open flame.

**7.3 Specific end use(s):** N/A

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## **SECTION 8: Exposure control/personal protection**

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### **8.1 Control parameters**

<b>Ingredient name</b>	<b>Occupational exposure limits</b>
Disodium tetraborate decahydrate, borax decahydrate	OEL-AUSTRALIA: TWA 5 mg/m <sup>3</sup>
Iron (II) sulfate	OEL-AUSTRALIA: TWA 0.1 mg/m <sup>3</sup>

### **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: Dust mask with filter P2. 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.

Materials for protective clothing: Give good resistance: butyl rubber, neoprene, rubber. Give poor resistance: natural fibers.

Environmental exposure controls: Not available

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### SECTION 9: Physical and chemical properties

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

Appearance: tan brown, white, blue, green, red, yellow prills, crystalline solid, crystalline powder, granular, 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

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### SECTION 10: Stability and reactivity

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#### **10.1 Reactivity**

Not available

#### **10.2 Chemical stability**

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

#### **10.3 Possibility of hazardous reactions**

Hazardous reactions are not expected, under normal conditions of storage and use.

#### **10.4 Conditions to avoid**

Dusting conditions, extreme humidity, excess heat, moisture and incompatibles.



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### **10.5 Incompatible materials**

Reducing agents, organic materials, combustible materials, metals, chromates, zinc, copper alkalis, strong oxidizing agents, strong bases and strong acids.

### **10.6 Hazardous decomposition products**

Other decomposition products: not available  
In the event of fire: see section 5

## SECTION 11: Toxicological information

### **11.1 Information on toxicological effects**

Acute toxicity:

Product/ingredient name	Test	Species	Dose
Potassium nitrate	LD50, Oral	Rat	2000 mg/kg
	LD50, Administration onto the skin	Rat	5000 mg/kg
	LC50, Inhalation	Rat	0.527 mg/l/4h
Ammonium nitrate	LD50, Oral	Rat	>2950 mg/kg
	LD50, Administration onto the skin	Rat	>5000 mg/kg
	LD50, Administration onto the skin	Rabbit	>3000 mg/kg
	LC50, Inhalation	Rat	>88.8 mg/l
Monoammonium phosphate	LD50, Oral	Rat	5750 mg/kg
	LD50, Administration onto the skin	Rabbit	>7940 mg/kg
Potassium dihydrogenorthophosphate	LD50, Oral	Rat	7100 mg/kg
	LD50, Administration onto the skin	Rabbit	>4640 mg/kg
Urea	LD50, Oral	Rat	8471 mg/kg
	LD50, Administration onto the skin	Rat	>3200 mg/kg
	LD50, Administration onto the skin	Rabbit	>21000 mg/kg
Sodium tripolyphosphate	LD50, Oral	Rat	>2000 mg/kg
	LD50, Oral	Mouse	3100 mg/kg
	LC50, Inhalation	Rat	>390 mg/m <sup>3</sup> , air
Disodium pyrophosphate	LD50, Oral	Rat	3600 mg/kg
	LD50, Oral	Rat	1.8 g/kg (male)
	LC50, Inhalation	Rat	> 0.58 mg/l/4h liter air
	LD50, Dermal	Rat	>2000 mg/kg
Tetrapotassium pyrophosphate	LD50, Administration onto the skin	Rabbit	>4640 mg/kg
Ammonium sulfate	LD50, Oral	Rat	4250 mg/kg
	LD50, Administration onto the skin	Rabbit	2000 mg/kg
	LC50, Inhalation	Rat	1000 mg/m <sup>3</sup> , air
Zinc sulfate	LD50, Oral	Mouse	245 mg/kg
Iron sulfate	LD50, Oral	Rat	319 mg/kg
Tetrapotassium pyrophosphate	LD50, Oral	Rat	>2980 mg/kg
Magnesium sulfate	LD50, Oral	Rat	>2000 mg/m <sup>3</sup>
	LD50, Administration onto the skin	Rat	>2000 mg/m <sup>3</sup>



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Skin corrosion/irritation: Not available

Serious eye damage/irritation: Not available

Respiratory or skin sensitization: Not available

Germ cell mutagenicity: Not available

Carcinogenicity: Not available

Reproductive toxicity: Not available

Specific target organ toxicity (single exposure): Not available

Specific target organ toxicity (repeated exposure): Not available

Aspiration hazard: Not available

Other symptoms:

May cause damage to mucous membranes. Dust in high concentration may cause skin and respiratory tract irritation, causes coughing and sneezing. Dust has a dehydrating effect and may cause eye irritation at high concentration. May cause redness of the eye tissue. Ingestion of large quantities may cause gastrointestinal irritation, vomiting and diarrhea. Prolong contact with the dry materials may cause dryness or cracking of the skin. May cause lung irritation.

### SECTION 12: Ecological information

#### 12.1 Toxicity

Potassium nitrate:

LC50 fish 1	162 mg/l (96 h; Pisces; Lethal)
LC50 fish 2	≤ 1378 mg/l
EC50 other aquatic organisms 1	≥ 490 mg/l 48h; Daphnia
NOEC (acute)	1700 mg/l algae
TLM fish 1	3000 mg/l (96 h; Lepomis macrochirus)
TLM fish 2	162 mg/l (96 h; Gambusia affinis)
Threshold limit other aquatic organisms 1	39 mg/l (96 h; Daphnia magna)
Threshold limit other aquatic organisms 2	490 mg/l (48 h; Daphnia magna)

Monoammonium phosphate:

LC50 fish 1	155 ppm (96 h; Pimephales promelas)
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Potassium dihydrogenorthophosphate:

LC50 fish 1	> 900 mg/l (48 h; Leuciscus idus)
EC50 other aquatic organisms 1	2 ppm (672 h; Potamogeton sp.; O2 evolution)
Threshold limit other aquatic organisms 1	1 ppm (672 h; Potamogeton sp.; O2 evolution)
Threshold limit algae 1	1 ppm (672 h; Elodea sp.; O2 evolution)
Threshold limit algae 2	> 5 ppm (672 h; Elodea sp.; O2 evolution)





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### Urea:

fish 1	> 6810 mg/l (96 h; <i>Leuciscus idus</i> ; Nominal concentration)
EC50 Daphnia 1	> 10000 mg/l (48 h; <i>Daphnia magna</i> ; Nominal concentration)
LC50 fish 2	17500 mg/l (96 h; <i>Poecilia reticulata</i> )
EC50 Daphnia 2	> 10000 mg/l (24 h; <i>Daphnia magna</i> )
TLM fish 1	17500 ppm (96 h; <i>Poecilia reticulata</i> )
Threshold limit other aquatic organisms 1	120000 mg/l (16 h; Bacteria; Toxicity test)
Threshold limit other aquatic organisms 2	> 10000 mg/l ( <i>Pseudomonas putida</i> )
Threshold limit algae 1	> 10000 mg/l (168 h; <i>Scenedesmus quadricauda</i> ; Growth rate)
Threshold limit algae 2	47 mg/l (192 h; <i>Microcystis aeruginosa</i> ; Growth rate)

### Sodium tripolyphosphate:

LC50 fish	≤1000 mg/l (48 h)
EC50 algae	160 mg/l (90 h)

### Magnesium sulfate:

LC50 fish	15000 mg/l (96 h)
LC50 fish	680 mg/l (96 h)
EC50 algae	27000 mg/l (72 h)

### Ammonium nitrate

LC50 fish	447 mg/L 48h
EC50 Daphnia 1	490 mg/l
LC50 fish 2	800 mg/l (3.9 h; Pisces)
TLM fish 1	100 - 1000,96 h; Pisces
TLM other aquatic organisms 1	100 - 1000,96 h
Threshold limit algae 1	83 mg/l ( <i>Scenedesmus quadricauda</i> ; Growth rate)

### Ammonium sulfate

LC50 fish	53 mg/L 96h
EC50 Daphnia	169 mg/l 48h
EC50 algae	1605 mg/l 5d

### Tetrapotassium pyrophosphate:

LC50 fish 1	> 750 mg/l (48 h; <i>Leuciscus idus</i> )
LC50 other aquatic organisms 2	> 100 mg/l 96h; Mysid shrimp

### Disodium pyrophosphate:

LC50 fish 1	> 1500 mg/l (48h; <i>Leuciscus idus</i> )
LC50 other aquatic organisms 2	> 100 mg/l 72h ;algae
EC50 Daphnia 1	> 100 mg/l 48h





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### **12.2 Persistence and Degradability**

Potassium nitrate: Abiotic degradation.

Urea: Inherently biodegradable. Hydrolysis in water. Highly mobile in soil.

Ammonium nitrate: Biodegradable in water. Biodegradable in the soil.

### **12.3 Bioaccumulative potential**

<b>Product/ingredient name</b>	<b>Log Pow</b>	<b>Potential</b>
Potassium nitrate	<1	Low bioaccumulation potential
Monoammonium phosphate	-	Not bioaccumulative
Sodium tripolyphosphate	<1	-
Magnesium sulfate	-	Low bioaccumulation potential
Ammonium nitrate	-3.1	Not applicable
Ammonium sulfate	<1	-
Tetrapotassium pyrophosphate	<1	Not applicable
Disodium pyrophosphate	-2	Not bioaccumulative

### **12.4 Mobility in soil**

Soil/water partition coefficient (Koc): Nitrates has a low potential for adsorption. Portion not taken up by plants, can leach to groundwater.

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

Not available

### **12.6 Other adverse effects**

Substances which contribute to eutrophication: Nitrates, Phosphates.

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## **SECTION 13: Disposal considerations**

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### **13.1 Waste treatment methods**

#### **Product**

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.

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## **SECTION 14: Transport information**

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### **14.1 Un number**

ADR/RID: -

IMDG: -

IATA: -

### **14.2 Proper shipping name**

ADR/RID: Not regulated

IMDG: Not regulated

IATA: Not regulated



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

ADR/RID: -

IMDG: -

IATA: -

### **14.4 Packing group**

ADR/RID: -

IMDG: -

IATA: -

### **14.5 Environmental hazard**

Marine Pollutant: N/A

### **14.6 Special precautions for user**

Not available

### **14.7 Transport to bulk according to Annex II of MARPOL 79/78 and the IBC Code**

Not available

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## **SECTION 15: Regulatory information**

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This SDS complies with the following requirements of:  
Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

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

Not available

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## **SECTION 16: Other information**

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

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

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



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### Key Legend Information:

CAS - Chemical Abstract Service

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

H-statements - Hazard statements

TLV - Threshold Limit Value

TWA - Time-weighted average

STEL - Short-Term Exposure Limit

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