

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 12/08/2017

Reviewed on 12/08/2017

1 Identification

- **Product Identifier**
- **Trade name:** 15-4-9-240-NV
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description** Fertilizer
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
Florikan ESA, LLC
6801 Energy Ct. Suite 100
Sarasota, FL 34234
Ph: 941-379-4048 ext 332
Fax: 941-377-3633
Email product info: Doug Cabe; dcabe@florikan.com
- **Emergency telephone number:** Chemtrec 1-800-424-9300 or outside USA 1-703-527-3887

www.Florikan.com

* 2 Hazard(s) Identification

- **Classification of the substance or mixture:**



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

- **Label elements:**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



GHS07

- **Signal word:** Warning
- **Hazard-determining components of labeling:**
Ammonium Nitrate
Magnesium Sulphate
Ammonium phosphate monobasic
- **Hazard statements:**
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
- **Precautionary statements:**
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves / eye protection / face protection.
P302+P352 If on skin: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

• **Unknown acute toxicity:**

This value refers to knowledge of known, established toxicological or ecotoxicological values.
15.6 % of the mixture consists of component(s) of unknown toxicity.

• **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

• **NFPA ratings (scale 0 - 4)**



• **HMIS-ratings (scale 0 - 4)**



• **Hazard(s) not otherwise classified (HNOC):** None known

* 3 Composition/Information on Ingredients

• **Chemical characterization: Mixtures**

• **Description:** Mixture of substances listed below with non-hazardous additions.

• **Dangerous Components:**

CAS: 6484-52-2 RTECS: BR9050000	Ammonium Nitrate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	15-35%
CAS: 10124-37-5	Calcium Nitrate ⚠ Ox. Sol. 3, H272	15-35%
CAS: 7487-88-9 RTECS: OM 4500000	Magnesium Sulphate ⚠ STOT SE 3, H335	5-10%
CAS: 7722-76-1	Ammonium phosphate monobasic ⚠ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	2-12%
CAS: 14807-96-6 RTECS: WW2710000	Talc (Mg ₃ H ₂ (SiO ₃) ₄) not containing asbestos or asbestiform fibres	≤2.5%
CAS: 7720-78-7 RTECS: NO 8510000	iron(II) sulfate ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	≤2.5%
CAS: 7758-99-8 RTECS: GL 8800000	Copper Sulfate Pentahydrate ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	≤2.5%

• **Additional information:**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

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* 4 First-Aid Measures

- **Description of first aid measures:**
- **General information:**
Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation occurs, consult a doctor.
- **After eye contact:**
Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.
If easy to do so, remove contact lenses if worn.
If eye irritation occurs, consult a doctor.
- **After swallowing:** If swallowed and symptoms occur, consult a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

5 Fire-Fighting Measures

- **Extinguishing media:**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters:**
- **Protective equipment:**
Mouth respiratory protective device.
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

* 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:** Not required.
- **Environmental precautions:** Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
Dispose of the collected material according to regulations.
- **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.
- **Protective Action Criteria for Chemicals**

• PAC-1:

7778-80-5	Potassium Sulfate	20 mg/m ³
6484-52-2	Ammonium Nitrate	6.7 mg/m ³
10124-37-5	Calcium Nitrate	1.2 mg/m ³
7487-88-9	Magnesium Sulphate	20 mg/m ³
7722-76-1	Ammonium phosphate monobasic	17 mg/m ³

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7720-78-7	iron(II) sulfate	8.2 mg/m ³
6484-52-2	Ammonium Nitrate	6.7 mg/m ³
60-00-4	Edetic acid	4.1 mg/m ³
10034-96-5	Manganese(II) Sulfate Monohydrate	9.2 mg/m ³
7783-20-2	Ammonium Sulfate	13 mg/m ³
7758-99-8	Copper Sulfate Pentahydrate	12 mg/m ³
10043-35-3	Boric Acid	6 mg/m ³
7733-02-0	Zinc Sulphate (anhydrous)	15 mg/m ³

• **PAC-2:**

7778-80-5	Potassium Sulfate	220 mg/m ³
6484-52-2	Ammonium Nitrate	73 mg/m ³
10124-37-5	Calcium Nitrate	13 mg/m ³
7487-88-9	Magnesium Sulphate	220 mg/m ³
7722-76-1	Ammonium phosphate monobasic	190 mg/m ³
7720-78-7	iron(II) sulfate	41 mg/m ³
6484-52-2	Ammonium Nitrate	73 mg/m ³
60-00-4	Edetic acid	45 mg/m ³
10034-96-5	Manganese(II) Sulfate Monohydrate	15 mg/m ³
7783-20-2	Ammonium Sulfate	140 mg/m ³
7758-99-8	Copper Sulfate Pentahydrate	32 mg/m ³
10043-35-3	Boric Acid	23 mg/m ³
7733-02-0	Zinc Sulphate (anhydrous)	97 mg/m ³

• **PAC-3:**

7778-80-5	Potassium Sulfate	1,300 mg/m ³
6484-52-2	Ammonium Nitrate	440 mg/m ³
10124-37-5	Calcium Nitrate	79 mg/m ³
7487-88-9	Magnesium Sulphate	1,300 mg/m ³
7722-76-1	Ammonium phosphate monobasic	1,100 mg/m ³
7720-78-7	iron(II) sulfate	250 mg/m ³
6484-52-2	Ammonium Nitrate	440 mg/m ³
60-00-4	Edetic acid	200 mg/m ³
10034-96-5	Manganese(II) Sulfate Monohydrate	90 mg/m ³
7783-20-2	Ammonium Sulfate	840 mg/m ³
7758-99-8	Copper Sulfate Pentahydrate	190 mg/m ³
10043-35-3	Boric Acid	830 mg/m ³
7733-02-0	Zinc Sulphate (anhydrous)	580 mg/m ³

7 Handling and Storage

• **Handling**

• **Precautions for safe handling:**

Avoid creating and breathing dust/fume/gas/mist/vapors/spray.

Ensure good ventilation/exhaustion at the workplace.

• **Information about protection against explosions and fires:** No special measures required.

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- **Conditions for safe storage, including any incompatibilities:**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s):** No further relevant information available.

* 8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**
- **Components with occupational exposure limits:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

14807-96-6 Talc ($\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$) not containing asbestos or asbestiform fibres

PEL	Long-term value: 20 mppcf ppm (containing <1% Quartz)
REL	Long-term value: 2* mg/m ³ *respirable dust; and <1% Quartz
TLV	Long-term value: 2* mg/m ³ *as respirable fraction; E

7720-78-7 iron(II) sulfate

REL	Long-term value: 1 mg/m ³ as Fe
TLV	Long-term value: 1 mg/m ³ as Fe

- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing and wash before reuse.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **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.
Select glove material based on penetration times, rates of diffusion and degradation.

- **Material of 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.
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 cannot be calculated in advance and has therefore to be checked prior to the

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application.

• **Penetration time of glove material:**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

• **Eye protection:**



Tightly sealed goggles

* 9 Physical and Chemical Properties

• **Information on basic physical and chemical properties**

• **General Information**

• **Appearance:**

Form:

Granulate

Color:

Grey

• **Odor:**

Slight

• **Odor threshold:**

Not determined.

• **pH-value:**

Not applicable.

• **Change in condition**

Melting point/Melting range:

Not determined.

Boiling point/Boiling range:

≥210 °C (≥410 °F)

• **Flash point:**

None

• **Flammability (solid, gaseous):**

Not determined.

• **Ignition temperature:**

Not applicable

• **Decomposition temperature:**

Not determined.

• **Auto igniting:**

Product is not self-igniting.

• **Danger of explosion:**

Product does not present an explosion hazard.

• **Explosion limits:**

Lower:

Not determined.

Upper:

Not determined.

• **Vapor pressure:**

Not applicable.

• **Density @ 20 °C (68 °F):**

1.096 g/cm³ (9.146 lbs/gal)

• **Bulk density:**

1,087.4 kg/m³

• **Relative density:**

Not determined.

• **Vapor density:**

Not applicable.

• **Evaporation rate:**

Not applicable.

• **Solubility in / Miscibility with:**

Water:

Soluble.

• **Partition coefficient (n-octanol/water):** Not determined.

• **Viscosity:**

Dynamic:

Not applicable.

Kinematic:

Not applicable.

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- **Solvent content:**
- **VOC content:** 0.00 %
- **Other information:** No further relevant information available.

10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

* 11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

7778-80-5 Potassium Sulfate

Oral	LD50	6,600 mg/kg (Rat)
Inhalative	LC50/96 hours	680 mg/l (Pimephales)

6484-52-2 Ammonium Nitrate

Oral	LD50	2,217 mg/kg (Rat)
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10124-37-5 Calcium Nitrate

Oral	LD50	3,900 mg/kg mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)

7487-88-9 Magnesium Sulphate

Oral	LD50	>2,000 mg/kg (Rat)
Inhalative	LC50/4 h	>2,000 mg/l (Rabbit)
	LC50/96 hours	2,820 mg/l (Pimephales)

7722-76-1 Ammonium phosphate monobasic

Oral	LD50	5,750 mg/kg (Rat)
Dermal	LD50	7,640 mg/kg (Rabbit)

7720-78-7 iron(II) sulfate

Oral	LD50	1,520 mg/kg (Mouse)
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7758-99-8 Copper Sulfate Pentahydrate

Oral	LD50	300 mg/kg (Rat)
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- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

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• **Carcinogenic categories:**

• **IARC (International Agency for Research on Cancer):**

14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄) not containing asbestos or asbestiform fibres	3
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	3

• **NTP (National Toxicology Program):**

None of the ingredients are listed.

• **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

12 Ecological Information

• **Toxicity:**

• **Aquatic toxicity:**

7487-88-9 Magnesium Sulphate

EC50	2,700 mg/l (Green algae)
	343.56 mg/l (Water flea)

• **Persistence and degradability:** No further relevant information available.

• **Behavior in environmental systems:**

• **Bioaccumulative potential:** No further relevant information available.

• **Mobility in soil:** No further relevant information available.

• **Additional ecological information:**

• **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

• **Results of PBT and vPvB assessment:**

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• **Other adverse effects:** No further relevant information available.

13 Disposal Considerations

• **Waste treatment methods:**

• **Recommendation:**

Observe all federal, state and local environmental regulations when disposing of this material.

• **Uncleaned packagings**

• **Recommendation:** Disposal must be made according to official regulations.

• **Recommended cleansing agent:** Water, if necessary with cleansing agents.

* 14 Transport Information

• **UN-Number:**

• **DOT, ADR/ADN, ADN, IMDG, IATA**

Non-Regulated Material

• **UN proper shipping name:**

• **DOT, ADR/ADN, ADN, IMDG, IATA**

Non-Regulated Material

• **Transport hazard class(es):**

• **DOT, ADR/ADN, ADN, IMDG, IATA**

• **Class:**

Non-Regulated Material

• **Packing group:**

• **DOT, ADR/ADN, IMDG, IATA**

Non-Regulated Material

• **Environmental hazards:**

Not applicable.

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- **Special precautions for user:** Not applicable.
- **Stowage Category** A
- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

* 15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

• **Section 355 (extremely hazardous substances):**

7720-78-7 iron(II) sulfate

• **Section 313 (Specific toxic chemical listings):**

6484-52-2 Ammonium Nitrate
 10124-37-5 Calcium Nitrate
 6484-52-2 Ammonium Nitrate
 10034-96-5 Manganese(II) Sulfate Monohydrate
 7783-20-2 Ammonium Sulfate
 7758-99-8 Copper Sulfate Pentahydrate
 7733-02-0 Zinc Sulphate (anhydrous)

• **TSCA (Toxic Substances Control Act):**

7778-80-5 Potassium Sulfate
 6484-52-2 Ammonium Nitrate
 10124-37-5 Calcium Nitrate
 7487-88-9 Magnesium Sulphate
 7722-76-1 Ammonium phosphate monobasic
 14807-96-6 Talc (Mg₃H₂(SiO₃)₄) not containing asbestos or asbestiform fibres
 7720-78-7 iron(II) sulfate
 6484-52-2 Ammonium Nitrate
 7778-18-9 Calcium Sulfate anhydrous
 14807-96-6 Talc (Mg₃H₂(SiO₃)₄)
 60-00-4 Edetic acid
 7757-93-9 Calcium Phosphate, dibasic
 15708-41-5 EDTA feric sodium complex
 1332-58-7 Kaolin
 7783-20-2 Ammonium Sulfate
 10043-35-3 Boric Acid
 7733-02-0 Zinc Sulphate (anhydrous)
 1332-58-7 Kaolin

• **TSCA new (21st Century Act) (Substances not listed)**

7758-99-8 Copper Sulfate Pentahydrate

• **California Proposition 65:**

• **Chemicals known to cause cancer:**

None of the ingredients are listed.

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· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients are listed.		
· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients are listed.		
· Chemicals known to cause developmental toxicity:		
None of the ingredients are listed.		
· New Jersey Right-to-Know List:		
6484-52-2	Ammonium Nitrate	
10124-37-5	Calcium Nitrate	
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄) not containing asbestos or asbestiform fibres	
7720-78-7	iron(II) sulfate	
6484-52-2	Ammonium Nitrate	
7778-18-9	Calcium Sulfate anhydrous	
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	
60-00-4	Edetic acid	
1332-58-7	Kaolin	
7733-02-0	Zinc Sulphate (anhydrous)	
1332-58-7	Kaolin	
· New Jersey Special Hazardous Substance List:		
6484-52-2	Ammonium Nitrate	R3
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄) not containing asbestos or asbestiform fibres	CA
6484-52-2	Ammonium Nitrate	R3
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	CA
· Pennsylvania Right-to-Know List:		
6484-52-2	Ammonium Nitrate	
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄) not containing asbestos or asbestiform fibres	
7720-78-7	iron(II) sulfate	
6484-52-2	Ammonium Nitrate	
7778-18-9	Calcium Sulfate anhydrous	
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	
60-00-4	Edetic acid	
1332-58-7	Kaolin	
7783-20-2	Ammonium Sulfate	
7733-02-0	Zinc Sulphate (anhydrous)	
1332-58-7	Kaolin	
· Pennsylvania Special Hazardous Substance List:		
6484-52-2	Ammonium Nitrate	E
7720-78-7	iron(II) sulfate	E
6484-52-2	Ammonium Nitrate	E
60-00-4	Edetic acid	E
7783-20-2	Ammonium Sulfate	E
7733-02-0	Zinc Sulphate (anhydrous)	E

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· **Carcinogenic categories:**

· **EPA (Environmental Protection Agency):**

10034-96-5	Manganese(II) Sulfate Monohydrate	D
10043-35-3	Boric Acid	I (oral)
7733-02-0	Zinc Sulphate (anhydrous)	D, I, II

· **TLV (Threshold Limit Value established by ACGIH):**

14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄) not containing asbestos or asbestiform fibres	A4
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	A4
1332-58-7	Kaolin	2 mg/m ³
10043-35-3	Boric Acid	A4
1332-58-7	Kaolin	2 mg/m ³

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms:**



GHS07

· **Signal word:** Warning

· **Hazard-determining components of labeling:**

Ammonium Nitrate
Magnesium Sulphate
Ammonium phosphate monobasic

· **Hazard statements:**

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

· **Precautionary statements:**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves / eye protection / face protection.
P302+P352 If on skin: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a poison center/doctor if you feel unwell.
P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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• **National regulations:**

None of the ingredients are listed.

• **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

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• **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
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)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety & Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Ox. Sol. 3: Oxidizing solids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

• *** Data compared to the previous version altered.**

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