

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II / Regulation (EU) No. 2015/830.  
- Sweden

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**Nordic Feed  
Solutions**

## SAFETY DATA SHEET

**Feed Acidifier 3-0 Solid.**

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

#### 1.1 Product identifier

Product name : Feed Acidifier 3-0 Solid.  
Product code : Not available.  
Product type : Solid

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

Identified uses	
Professional USE as such or in a mixture, in the feed industry.	
Uses advised against	: Other non-specified industry
Reason	: Due to lack of related experience or data, the supplier cannot approve this use.

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

Nordic Feed Solutions

##### Address

Gata : Spinnngatan  
Nummer : 5  
Postnummer : 267 73  
Ort : BILLESOLM  
Land : Sverige  
Telefonnummer : +46 73 719 14 46  
Faxnr. :  
e-mailadress till den person som är ansvarig för detta säkerhetsdatablad : info@nordicfeedsolutions.com

#### 1.4 Emergency telephone number

##### National advisory body/Poison Center

Name : Giftinformationscentralen / Swedish Poisons Information Centre

Telephone number : 112 – begär Giftinformation / 112 – ask for Poison Information  
 Hours of operation : 24h

**Supplier**

Emergency telephone number : +46856642573  
 (with hours of operation) : +44 1235 239670 (Carechem)  
 (24 h)

## SECTION 2: Hazards identification

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

Product definition : Mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Classification : Skin Irrit. 2, H315  
 Eye Dam. 1, H318

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

See Section 11 for more detailed information on health effects and symptoms.

**2.2 Label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H318 Causes serious eye damage.  
 H315 Causes skin irritation.

**Precautionary statements**

General : Not applicable.  
 Prevention : P280 Wear protective gloves and eye protection.  
 P270 Do not eat, drink or smoke when using this product.  
 P280 Wear protective gloves.  
 P280 Wear eye or face protection:  
 Recommended  
 Tightly-fitting goggles  
 P270 Do not eat, drink or smoke when using this product.  
 Response : P301 IF SWALLOWED:  
 P312 Call a POISON CENTER or physician if you feel unwell.

- P305 IF IN EYES:
- P310 Immediately call a POISON CENTER or physician.
- P305 IF IN EYES:
- P351 Rinse cautiously with water for several minutes.
- P338 Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P301 IF SWALLOWED:
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P332 If skin irritation occurs:
- P313-a Get medical attention.

**Storage** :

Not applicable.

**Disposal** :

Not applicable.

**Hazardous ingredients** : phosphoric acid

**EU Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

### **Special packaging requirements**

**Containers to be fitted with child-resistant fastenings** : Not applicable.

**Tactile warning of danger** : Not applicable.

### **2.3 Other hazards**

**Other hazards which do not result in classification** : None.

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

**3.2 Mixtures** : Mixture

Product/ingredient name	Identifiers	%	<b><u>Regulation (EC) No. 1272/2008 [CLP]</u></b>	Type
phosphoric acid	RRN: 01- 2119485924-24 EC: 231-633-2	>= 25 - < 30	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318	[1] [2]

	CAS : 7664-38-2 Index: 015-011-00-6			
citric acid	RRN: 01- 2119457026-42 EC: 201-069-1 CAS : 77-92-9	>= 3 - < 5	Eye Irrit. 2, H319	[1]

Type

- [1] Substance classified with a physical, health or environmental hazard  
 [2] Substance with a workplace exposure limit  
 [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII  
 [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII  
 [5] Substance of equivalent concern

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit 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

- Eye contact** : Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Check for and remove any contact lenses. Get medical attention immediately.
- 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.
- Skin contact** : Wash with soap and water. Continue to rinse for at least 10 minutes. Get medical attention.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if you feel unwell.
- Protection of first-aiders** : 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain

	watering redness
<b>Inhalation</b>	: No specific data.
<b>Skin contact</b>	: Adverse symptoms may include the following: irritation redness
<b>Ingestion</b>	: Adverse symptoms may include the following: stomach pains

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

<b>Notes to physician</b>	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: No specific treatment.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	: Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: None identified.

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

<b>Hazards from the substance or mixture</b>	: No specific fire or explosion hazard.
<b>Hazardous combustion products</b>	: Decomposition products may include the following materials: phosphorus oxides Avoid breathing dusts, vapors or fumes from burning materials. In case of inhalation of decomposition products in a fire, symptoms may be delayed.

### **5.3 Advice for firefighters**

<b>Special protective actions for fire-fighters</b>	: 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.
<b>Special protective equipment for fire-fighters</b>	: 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.

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

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

- For non-emergency personnel** : 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 (see Section 8).
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions**

- : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

- Small spill** : Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

**6.4 Reference to other sections**

- : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

**SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

**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.

**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.

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

**Recommendations**

- : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

**7.3 Specific end use(s)**

**Recommendations**

- : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

**8.1 Control parameters**

**Occupational exposure limits**

Product/ingredient name	Exposure limit values
phosphoric acid	<b>EU OEL (2000-06-01)</b> TWA 1 mg/m <sup>3</sup> STEL 2 mg/m <sup>3</sup>

**Recommended monitoring procedures**

- : 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

Product/ingredient name	Type	Exposure	Value	Population	Effects
phosphoric acid	DNEL	Long term Inhalation	10,7 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	1 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	2 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	4,57 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Inhalation	0,36 mg/m <sup>3</sup>	Consumers	Local
	DNEL	Long term Oral	0,1 mg/kg bw/day	Consumers	Systemic

### PNECs

No PNECs available.

## 8.2 Exposure controls

### **Appropriate engineering controls**

- : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Individual protection measures

#### **Hygiene measures**

- : A washing facility or water for eye and skin cleaning purposes should be present. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.

#### **Eye/face protection**

- : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.


**Recommended:** Tightly-fitting goggles,

### Skin protection

#### **Hand protection**

- : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. For general applications, we recommend gloves with a thickness typically greater than 0.35 mm. It should be emphasized that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material.



<b>Body protection</b>	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved.
<b>Other skin protection</b>	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Respiratory protection</b>	:	In case of inadequate ventilation wear respiratory protection.
<b>Environmental exposure controls</b>	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
<b>Personal protective equipment (Pictograms)</b>	:	

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	:	Solid
<b>Color</b>	:	Brown.,
<b>Odor</b>	:	Mild.
<b>Odor threshold</b>	:	Not determined.
<b>pH</b>	:	2,1 - 2,3 [Conc. (% w/w): 10 g/l]

<b>Melting point/freezing point</b>	:	Not determined
<b>Initial boiling point and boiling range</b>	:	Not determined
<b>Flash point</b>	:	Not determined
<b>Evaporation rate</b>	:	Not determined
<b>Flammability (solid, gas)</b>	:	Non-flammable.

<b>Upper/lower flammability or explosive limits</b>	:	<b>Lower:</b> Not determined <b>Upper:</b> Not determined
<b>Vapor pressure</b>	:	Not determined
<b>Vapor density</b>	:	Not determined
<b>Relative density</b>	:	Not determined
<b>Bulk density</b>	:	900 - 1.000 kg/m <sup>3</sup>

<b>Solubility(ies)</b>	:	Partially soluble in the following materials: cold water
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<b>Partition coefficient: n-octanol/water</b>	:	Not determined
<b>Auto-ignition temperature</b>	:	Not determined
<b>Viscosity</b>	:	<b>Dynamic:</b> Not determined. <b>Kinematic:</b> Not determined.

Explosive properties : Non-explosive.  
Oxidizing properties : None

## 9.2 Other information

No additional information.

# 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.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : Avoid contamination by any source including metals, dust and organic materials.
- 10.5 Incompatible materials** : No specific data.
- 10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

### Acute toxicity

Product/ingredient name	Method	Species	Result	Exposure	References
phosphoric acid					
	OECD 423 LD50 Oral	Rat	300 - 2.000 mg/kg	Not applicable.	CSR
citric acid					
	LD50 Oral	Rat	5.790 mg/kg	Not applicable.	

**Conclusion/Summary** : Harmful if swallowed.

### Acute toxicity estimates

Route	ATE value
Oral	1.866,6 mg/kg

### Irritation/Corrosion

Product/ingredient name	Method	Species	Result	Exposure	References
Not available.					
	431 In Vitro Skin Corrosion: Human Skin Model Test	In vitro	Irritant		Charles River (20205153)

	Skin				
phosphoric acid					
	Primary dermal irritation index (PDII) Skin	Rabbit	Visible necrosis	1 h	IUCLID
citric acid					
	Skin	Rabbit	Mild irritant		
	Eyes	Rabbit	Severe irritant		

**Conclusion/Summary**

- Skin** : Causes skin irritation.  
**Eyes** : Causes serious eye damage.  
**Respiratory** : No known significant effects or critical hazards.

**Sensitization****Conclusion/Summary**

- Skin** : No known significant effects or critical hazards.  
**Respiratory** : No known significant effects or critical hazards.

**Mutagenicity**

- Conclusion/Summary** : No known significant effects or critical hazards.

**Carcinogenicity**

- Conclusion/Summary** : No known significant effects or critical hazards.

**Reproductive toxicity**

- Conclusion/Summary** : No known significant effects or critical hazards.

- Information on the likely routes of exposure** : Not available.

**Potential acute health effects**

- Inhalation** : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.  
**Ingestion** : Harmful if swallowed. May cause burns to mouth, throat and stomach.  
**Skin contact** : Causes skin irritation.  
**Eye contact** : Causes serious eye damage.

**Symptoms related to the physical, chemical and toxicological characteristics**

- Inhalation** : No specific data.  
**Ingestion** : Adverse symptoms may include the following:  
stomach pains

- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Eye contact** : Adverse symptoms may include the following: pain  
watering redness

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Short term exposure**

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

**Long term exposure**

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

**Potential chronic health effects**

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Effects on or via lactation** : No known significant effects or critical hazards.
- Other effects** : No known significant effects or critical hazards.
- Other information** : Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Method	Species	Result	Exposure	References
phosphoric acid					
	OECD 202 Acute EC50 Fresh water	Water flea	> 100 mg/l	48 h	CSR
	OECD 201 Acute EC50 Fresh water	Algae	> 100 mg/l	72 h	CSR
citric acid					
	Acute LC50 Fresh water	Fish	440 mg/l	48 h	
	Acute LC50 Fresh water	Fish	> 100 mg/l	96 h	

- Conclusion/Summary** : No known significant effects or critical hazards.

### 12.2 Persistence and degradability

- Conclusion/Summary** : No known significant effects or critical hazards.

**12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
citric acid	-1,64-1,8	Not applicable.	low

**Conclusion/Summary** : No known significant effects or critical hazards.

**12.4 Mobility in soil**

**Soil/water partition coefficient (KOC)** : Not available.

**Mobility** : Not available.

**12.5 Results of PBT and vPvB assessment**

**PBT** : Not applicable. P: Not available. B: Not available. T: Not available.

**vPvB** : Not applicable. vP: Not available. vB: Not available.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

**13.1 Waste treatment methods****Product**

**Methods of disposal** : 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.

**Hazardous waste** : Yes.

**European waste catalogue (EWC)**

Waste code	Waste designation
06 01 04*	phosphoric and phosphorous acid

**Packaging**

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out.

Empty containers or liners may retain some product residues.  
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

### Regulation: ADR/RID

14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.

#### Additional information

### Regulation: ADN

14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.

#### Additional information

Danger code : Not applicable.

### Regulation: IMDG

14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.

#### Additional information

Marine pollutant : No.

### Regulation: IATA

14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.

#### Additional information

Marine pollutant : No.

**14.6 Special precautions for user** : Transport within user's premises: Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

Not applicable.

**14.8 IMSBC**

<b>Bulk cargo shipping name</b>	:	No tradename available.
<b>Class</b>	:	Not applicable.
<b>Group</b>	:	C
<b>Marpol V</b>	:	Non-HME

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU Regulation (EC) No. 1907/2006 (REACH)****Annex XIV - List of substances subject to authorization**

**Annex XIV**: None of the components are listed.

**Substances of very high concern**: None of the components are listed.

**EU Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

**Other EU regulations****Ozone depleting substances (1005/2009/EU)**

None of the components are listed.

**Prior Informed Consent (PIC) (649/2012/EU)**

None of the components are listed.

**Seveso Directive**

This product is not controlled under the Seveso Directive.

**National regulations**

**Biocidal products regulation** : Not applicable.

**Flammable liquid class (SRVFS 2005:10)** : Not applicable.

**Flammable liquid class (SRVFS 2005:10)** : Not applicable.

**Ordinance on Thermoset Plastics** : Not applicable.

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

**15.2 Chemical Safety Assessment**

: This product contains substances for which Chemical Safety Assessments are still required.

**SECTION 16: Other information**

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DNEL = Derived No Effect Level  
 DMEL = Derived Minimal Effect Level  
 EUH statement = CLP-specific Hazard statement  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number  
 PBT = Persistent, Bioaccumulative and Toxic  
 vPvB = Very Persistent and Very Bioaccumulative  
 bw = Body weight

**Key data sources** : EU REACH IUCLID5 CSR.  
 National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical Substances.  
 Sphera Solutions Inc., 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada.  
 Regulation (EC) No 1272/2008 Annex VI.

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Classification	Justification
Acute Tox. 4, H302	Calculation method
Skin Irrit. 2, H315	Expert judgment
Eye Dam. 1, H318	Expert judgment

**Full text of abbreviated H statements**

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

**Full text of classifications [CLP/GHS]**

Met. Corr. 1, H290	CORROSIVE TO METALS - Category 1
Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
Skin Corr. 1B, H314	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
Eye Dam. 1, H318	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

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Version : 1.0  
Prepared by : Nordic Feed Solutions AB

**Notice to reader**

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein, since all materials may represent unknown hazards and should be used with caution. Final determination of the suitability of any material is the sole responsibility of the user.

**Annex to the extended Safety Data Sheet (eSDS) -  
Exposure Scenario/Safe Use Information:**

**Identification of the substance or mixture**

**Product definition** : Mixture

**Product name** : No tradename available.

**Exposure Scenario/Safe  
Use Information** : Not yet complete.

