

## SAFETY DATA SHEET

In accordance with Regulation (EC) No. 1907/2006 (REACH), Annex II and the European Parliament and the Council – Denmark. Translation from Danish.

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**Date of previous issue:** 00.00.0000  
**Version:** 1.0

### 1. Identification of the substance / mixture and of the company

#### 1.1. Product:

Product Name: TourTurf Liquid Feed Special (FS) 10-1-9 (50703)  
Product type: Liquid

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

Identified users: Industrial distribution.  
Industrial application for the preparation of chemical mixtures.  
Professional manufacture of fertilizer products.  
Professional application to manure in agriculture.  
Professional application for fertilizer in horticulture. Professional application for liquid fertilizers for spreading on open ground. Professional application of fertilizer, equipment maintenance.

Use not recommended: None identified.

Producer: E. Marker A/S – Okslundvej 8, Bov, DK-6330 Padborg  
+45 74 67 08 08  
[info@emarker.dk](mailto:info@emarker.dk)

1.3. Phone (in case of emergency):  
SOS Alarm 112  
+45 82 12 12 12 for poison hotline  
+45 74 67 08 08 Supplier (08:00-16:00)

## 2. Hazard Identification

### 2.1 Classification of the substance or mixture

Product definition: Mixture

#### Classification according to Regulation (EC) 1272/2008 of the European Parliament and of the Council [CLP / GHS]

Classification: Not classified.  
This product is not classified as dangerous according to Regulation (EC) 1272/2008 with amendments.

#### Classification according to Directive 1999/45 / EC [DPD]

The product is not classified as dangerous according to Directive 1999/45 / EC and it is later adjustments.

classification: Not classified.  
Physical / chemical hazards: Not applicable.  
Human health hazards: Not applicable.  
Environmental hazards: Not applicable.

See the full text of the R-phrases or H-statements mentioned above in Section 16.  
See section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

Signal: No signal word.

Hazard statements: No known significant effects or critical hazards.

#### Precautionary statements

Generally: Not applicable.

EU Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Restrictions for manufacture, location on market and use of particular hazardous substances, mixtures and articles

Special packaging requirements: Not applicable.  
Containers that should be equipped with child safety closures

Tactile warning signs: Not applicable.

### 2.3 Other hazards

The substance meets the criteria for PBT according to Regulation (EC) No 1907/2006, Annex XIII

The substance meets the criteria for vPvB according to Regulation (EC) No 1907/2006, Annex XIII

Other hazards that do not involve classification: None.

### 3. Composition / information on ingredients

3.2 mixtures: Mix

Product / ingredient Name	Identification	%	67/548/EØF	Classification Regulation (EC) No. 1272/2008 [CLP]	Type
phosphoric acid	RRN: 01-211948592424  EC: 231-633-2  CAS: 7664-38-2  Index: 015-011-00-6	>=3 - <5	C; R34	Met. Corr. 1 H290 Skin Corr./Irrit. 1B H314	[1][2]

Type

- [1] Substances classified for a physical, health or environmental hazard
- [2] The substance has a limit value set by the Labour Inspectorate
- [3] Substance meets PBT criteria 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] Corresponding problematic substance

See the full text of the R-phrases or H-statements mentioned above in Section 16.

There are no additional ingredients present, as per the supplier's current knowledge and in concentrations used are classified as harmful or environmentally hazardous and therefore need to be mentioned in this section.

Limit values are mentioned in section 8, if available.

### 4. First aid measures

#### 4.1 Description of first aid measures

- Eye Contact: Rinse with plenty of running water. Check for contact lenses and remove if necessary. Seek medical attention if irritation occurs.
- Inhalation: Avoid inhalation of vapours and spray mists. After inhalation, move the injured person into fresh air. Seek medical attention if discomfort occurs.
- Skin contact: Wash with soap and water. In case of irritation, seek medical advice.
- Ingestion: Rinse mouth with water. If the material is consumed and the injured person is conscious, small amounts of water are given to drink. Seek medical attention if there is serious or permanent harm to health.
- First aid protection: No action may be taken that involves personal risk, or without appropriate education.

**4.2 Main symptoms and effects, both acute and delayed Potential acute health effects**

Eye Contact:	No known significant effects or critical hazards.
Inhalation:	Exposure to decomposition products may present a health hazard. There may be delayed serious effects after exposure.
Skin contact:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.

**Signs / symptoms of overexposure**

Eye Contact:	No specific data.
Inhalation:	No specific data.
Skin contact:	No specific data.
Ingestion:	No specific data.

**4.3 Indication of immediate medical attention and special treatment is required**

Remarks to the doctor:	It should be treated symptomatically. Contact a physician or emergency room immediately if large amounts have been taken or inhaled. In case of inhalation of decomposition products by fire, symptoms may be delayed. The injured person may need to be kept under medical supervision for 48 hours.
Special treatments:	No specific treatment.

**5. Firefighting**

**5.1 Extinguishing**

Suitable extinguishing media:	Use an extinguishing agent suitable for the surrounding fire.
Inappropriate extinguishing media	None identified.

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

Risks of substance or mixtures	The pressure rises in case of fire or heating, and the container can burst.
Hazardous decomposition products	Decomposition products from heating may include the following: carbon dioxide carbon monoxide nitrogen oxides phosphorus halogenated compounds metal oxide / oxides ammonia Do not inhale dust, fumes and smoke from burning materials. In case of inhalation of decomposition products by fire, symptoms may be delayed.

**5.3 Advice for firefighters**

Special safety precautions for fire men

If there is a fire, immediately isolate the area by removing all persons near the fire. It must not be implemented action that results in personal risk, or without appropriate training.

Special personal protective equipment to be worn of firefighters

Firefighters should wear appropriate protective equipment and self-contained air-breathing apparatus (SCBA) with full face mask to be used in positive pressure mode. Clothing for firefighters (including helmets, safety boots and gloves) according to European Standard EN 469 will provide a basic level of protection in case of chemical accidents.

More information:

Not available.

**6. Accidental release measures**

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

For non-emergency personnel: No action may be taken that involves personal risk or without appropriate education. Evacuate the surrounding areas. Make sure unnecessary and unprotected people cannot enter. Do not touch or walk through the spilled material. Use appropriate, personal protective equipment.

For emergency preparedness: If special clothing is required to handle the spill, be aware of the information in Section 8 about appropriate and inappropriate materials. See also "For non-emergency personnel" information.

**6.2 Environmental precautions:** Avoid dispersal of spilled material and drainage and contact with soil, waterways, drains and sewers. Inform the authorities if the product has caused environmental pollution (sewers, waterways, soil and air).

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

Small spill: Stop leak if it can be done without risk. Move containers from spill area. Dilute with water and moisten if water soluble. Alternatively, or if insoluble in water, absorb with a non-combustible solid and place in a suitable waste bin. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if it can be done without risk. Move containers from spill area. Avoid spillage into sewers, watercourses, basements or enclosed areas. Wash spillage into a waste disposal facility or do the following. Waste is limited and collected with non-flammable absorbent material, e.g. sand, soil, vermiculite, diatomaceous earth and placed in a container and disposed of in accordance with applicable rules. Dispose of via a licensed waste disposal contractor.

**6.4 Reference to others Points**

See Section 1 for contact information in emergency situations.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for more information on waste management.

## 7. Handling and storage

The information in this section contains general advice and guidance. The list of identified Applications in Section 1 should be consulted for information related to specific use for scenarios for exposure.

### 7.1 Precautions for safe handling

Precautions: Use suitable personal protective equipment (see section 8).

Advice on general occupational hygiene Smoking, eating and drinking are not allowed in areas where This product is handled, stored and processed. Users should wash hands and face before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering areas for dining. See also Section 8 for more information on hygiene measures.

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

Recommendations: Store in accordance with local regulations. Store in original packaging, protected from direct sunlight in a dry, cool and well-ventilated place, away from incompatible materials (see Item 10) as well as food and beverages. Keep the container tightly closed and sealed until it is used. Open containers should be carefully closed and stored upright to prevent leakage. Do not store in unlabeled containers. Must be properly sealed to avoid environmental pollution. Contain storage facilities to prevent contamination of soil and water in case of spillage.

### 7.3 Special applications

Recommendations: Not available.

Solutions specifically for Industry Not available.

## 8. Exposure controls / Personal protection

The information in this section contains generic advice and guidance. Information is given based on typical expected uses of the product. Further measures may be needed bulk handling or other applications that can increase worker exposure or releases environment.

### 8. 1 Control parameters

Occupational Exposure Limits

<u>Product / ingredient name</u>	<u>Exposure Limits</u>
Phosphoric acid	EU OEL (2000-06-01) Limit value 1 mg / m3 EU OEL (2000-06-01) Short-term exposure limit 2 mg / m3 Labour Inspection (1996-12-01) Limit value 1 mg / m3

Recommended measurement procedures:

If this product contains ingredients with exposure limits, personal and biological monitoring and monitoring of the atmosphere at the workplace may need to be checked to check the effectiveness of ventilation and other controls and / or the need to wear respiratory protection. Reference should be made to monitoring standards, such as the following:

European Standard EN 689 (Air Survey, Workplace Air. Guidance on Exposure Assessment by Inhalation of Chemical Substances in relation to Limit Values and Target Strategy)  
 European Standard EN 14042 (Workplace Air - Guidance in use and use of methods for assessing exposure to chemical and biological substances)  
 European Standard EN 482 (Workplace Air - General Requirements for Performance of Chemical Measurement Procedures) Reference to National Guidance Documents for Methods for Determination of hazardous substances will also be required.

**DNEL'er/DMEL'er**

Product / ingredient name	Type	Exposure	Value	Population	Effects
Phosphoric acid	DNEL	Prolonged inhalation	2,92 mg/m <sup>3</sup>	workers	systemic
Phosphoric acid	DNEL	Prolonged inhalation	0,73 mg/m <sup>3</sup>	consumers	systemic

**8.2 Exposure controls**

Suitable engineering controls

Good general ventilation should be sufficient to control workers' exposure to airborne impurities.

**Individual protective measures**

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products before eating, smoking or using a toilet and at the end of the work period. Wash contaminated clothing before reuse. There must be an opportunity to flush eyes and wash the skin on the spot.

Eye / face protection :

Goggles complying with an approved standard should be used when a risk assessment indicates that it is necessary to avoid exposure to liquid spray, spray mist, gases or dust.

**Skin protection**

Hand protection:

When handling chemical products, chemical resistant, impervious gloves should be used at all times, which comply with a approved standard if a risk assessment indicates that it is necessary.

Body protection:

Personal protective equipment for the body should be selected on the basis of the task to be performed and the risks involved.

Other skin protection:

Appropriate footwear and all additional skin protection should be used based on the task to be performed and the risks involved and should be approved by a specialist before handling this product.

Protection of respiratory organs

Use a properly fitted air purifying or air-conditioned gas mask, such as Complies with an approved standard if a risk assessment indicates that it is necessary. The choice of respirator must be based on known or anticipated exposure levels, hazard of the product and ensure operating limits for the selected respirator.

Measures to limitation of exposure of the environment

Emissions from ventilation or work equipment should be checked for to ensure that they meet the legal requirements for environmental protection. In some cases air cleaners, filters or other technical modifications to the equipment will be required to reduce emissions to acceptable levels.

## **9. Physical and chemical properties**

### **Appearance**

Physical state:	Liquid
Colour:	Not determined.
Smell:	Not determined.
Odour threshold:	Not determined.
pH:	Not determined.
Melting point / freezing point:	Not determined.
Boiling point and Boiling	Not determined.
Flash point:	Not determined.
Evaporation rate:	Not determined.
Flammability (solid, gaseous):	Not determined.
Upper / lower limits for ignition or explosion	Lower: Not determined Upper: Not determined
Vapor pressure:	Not determined.
Vapor density:	Not determined.
Relative density:	Not determined.
Density of bulk material:	Not determined.
Octanol / water distribution coefficient	Not determined.
Ignition temperature:	Not determined.
Viscosity:	Dynamic: Not determined. Kinematic: Not determined.
Explosive properties:	None.
Oxidizing properties:	None.
<b>9.2 Other information:</b>	No further information.



## 10. Stability and reactivity

<b>10.1 Reactivity:</b>	No specific test data related to reactivity are available for this product or its ingredients.
<b>10.2 Chemical stability:</b>	The product is stable.
<b>10.3 Risk of hazardous reactions</b>	Under normal storage and use conditions no dangerous reactions occur.
<b>10.4 Conditions to avoid:</b>	Avoid contamination from any source, including metals, dust and organic materials.
<b>10.5 Materials to be avoided</b>	Urea reacts with calcium hypochlorite or sodium hypochlorite and form explosive nitric trichloride.
<b>10.6 hazardous decomposition products</b>	Under normal conditions of storage and use, does not form dangerous decomposition products.

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product / ingredient name	Result	Species	Dosage	Exposure	References
Phosphoric acid	LD50 Oral	Rat	2.600 mg/kg OECD 423	-	IUCLID5

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

Product / ingredient name	Result	Species	Score	Exposure	Observation	References
Phosphoric acid	Skin Visible necrosis Primarily dermal Rritationsindeks (PDII)	Rabbit		1 h	72 h	IUCLID5

Conclusion / Summary

Skin: No known significant effects or critical hazards.  
 Eyes: No known significant effects or critical hazards.  
 respiratory: No known significant effects or critical hazards.

**Hypersensitivity**

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.

**Carcinogenesis**

Conclusion / Summary:

No known significant effects or critical hazards.

**Reproductive**

Product / Ingredient name	Moderate certainty	Fertility	Developmental toxin	Species	Dosage	Exposure	References
phosphoric acid	-	Negative	-	Rat	Oral : > 500mg/kg bw/day OECD 422	54 days	IUCLID5
	Negative	-	Negative	Rat	Oral : > 410 mg/kg bw/dag OECD 414	10 days	IUCLID5
	Negative	-	Negative	Mouse	Oral : > 370 mg/kg bw/day OECD 414	10 days	IUCLID5

Conclusion / Summary:

No known significant effects or critical hazards.

**Teratogenicity**

Conclusion / Summary:

No known significant effects or critical hazards.

Information about possible exposure

No known significant effects or critical hazards.

Potential acute health effects

inhalation:

Exposure to decomposition products may present a health hazard. There after exposure, delayed serious effects may occur.

Ingestion:

No known significant effects or critical hazards.

Skin contact:

No known significant effects or critical hazards.

Eye contact:

No known significant effects or critical hazards.

**Symptoms that concern the physical, chemical and toxicological properties**

Inhalation: No specific data.

Ingestion: No specific data.

Skin contact: No specific data.

Eye contact: No specific data.

**Delayed and immediate effects as well as chronic effects from short and long term exposure**

**Exposure in a short period of time**

Potential immediate effects: No known significant effects or critical hazards.

Potential delayed effects: No known significant effects or critical hazards.

**Exposure for a long time**

Potential immediate Effects: No known significant effects or critical hazards.

Potential delayed effects: No known significant effects or critical hazards.

**Potential chronic health effects**

Product / ingredient name	Result	Species	Dose	Exposure	References
Phosphoric acid	Sub-chronic NOAEL Oral	Rat	250 mg/kg OECD 422	54 days	IUCLID5

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

Generally: No known significant effects or critical hazards.

Carcinogenesis: No known significant effects or critical hazards.

Mutagenesis: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

## 12. Environmental information

### 12.1 Toxicity

Product / ingredient Name	Result	Species	Exposure	References
Phosphoric acid	Acute EC50 > 100 mg/l Fresh water OECD 202	Invertebrates, living in water. Daphnia	48 h	IUCLID5
	Acute EC50 > 100 mg/l Fresh water OECD 201	Aquatic plants – algae	72 h	IUCLID5

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 Bio accumulative

Conclusion / Summary No known significant effects or critical hazards.

### 12.4 Mobility in soil

Partition coefficient for soil / water (KOC) Not available.

Mobility: Not available.

### 12.5 Results of PBT and vPvB assessment

PBT: Not available

vPvB: Not available

12.6 Other negative effects: No known significant effects or critical hazards.

## 13. Disposal considerations

The information in this section contains general advice and guidance. The list of identified Applications in Section 1 should be consulted for information related to specific use for scenarios for exposure.

**13.1 Waste treatment methods**

**Product**

Methods of disposal: Production 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 and all local and local authorities' requirements. Surplus products and non-recyclable products can be transferred via an approved waste disposal system. Untreated waste must not be disposed of in the rivers unless it is complete in accordance with all competent authority requirements.

Hazardous Waste: According to the supplier's best belief, this product is not considered as hazardous waste in accordance with EU Directive 2008/98 / EC.

**European waste catalogue (EWC)**

Waste code	Waste designation
06 10 99	Other waste, not elsewhere specified

**Packaging**

Methods of disposal: Production of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfilling should only be considered if recovery is not feasible.

Special precautions: The material and its container must be disposed of safely. Empty containers or inner clothing may contain residues from the product. Avoid dispersal of spilled material and drainage and contact with soil, waterways, drains and sewers.

**14. Transport information**

**Legislation: ADR / RID**

- 14.1 UN-number Not regulated.
- 14.2 Proper shipping name (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.

More information

**Legislation: ADN**

- 14.1 UN-number Not regulated.
- 14.2 Proper shipping name (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.
- More information  
Danger Code: Not applicable.

**Legislation: IMDG**

- 14.1 UN number Not regulated.
- 14.2 Proper shipping name (UN proper shipping name) Not applicable.
- 14.3 Transport hazard class(es) Not applicable.
- 14.4 Packing group Not applicable.
- 14.5 Environmental hazards
- More information  
Marine pollutant (polluter sea)

**Legislation: IATA**

- 14.1 UN number Not regulated.
- 14.2 Proper shipping name (UN proper shipping name) Not applicable.
- 14.3 Transport hazard class(es) Not applicable.
- 14.4 Packing group Not applicable.
- 14.5 Environmental hazards
- More information

**14.7 Bulk transport according to Annex II of MARPOL 73/78 and the IBC Code**

Not available.

- 14.8 IMSBC: Not regulated.

## 15. Regulatory information

### 15.1 Special provisions / special legislation for the substance or mixture with regard to safety, health and environment

**EU Regulation (EC) No. 1907/2006 (REACH)  
Annex XIV - List of substances that require authorization**  
None of the components are listed.

**Particularly problematic substances: None of the components are listed.**

#### Other EU rules

**Europe's register:** All components are listed or exempted.

#### Seveso Directive

This product is not under the Seveso Directive.

#### National rules

Denmark - Cancer risk: Not available.

Low boiling liquids: Not available.

Restrictions: Not available.

Executive Order no. 571 about Aerosols Not available.

The list of unwanted substances: Not on list

Notes: To our best conviction, no one else applies national rules.

### 15.2

**Chemical Safety:** The product contains substances which are still required chemical safety assessment of.

## 16. Other information

Abbreviations and initial words: ATE = Assessment of Acute Toxicity  
CLP = Legislation on Classification, Labeling and Packaging of substances and mixtures [European Parliament and Council Regulation (EC) No. 1272/2008]  
DNEL Value = Derived-No-Effect-Level  
DMEL Value = Derived-Minimal-Effect-Level  
EUH sentence = CLP-specified hazard statement  
PNEC Value = Predicted-No-Effect-Concentration  
RRN = REACH Registration Number  
PBT = Persistent, Bio accumulative and Toxic  
vPvB = Very Persistent and Highly Bio accumulative  
bw = body weight

**Important literature references** EU REACH IUCLID5 CSR.

**and sources of data**

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. IHS, 4777 Levy Street, St Laurent, Quebec, HAR 2P9, Canada. Regulation (EC) No 1272/2008 Annex VI.

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

Classification	Reasons
not classified	

**Complete text of abridged H statements**

H290 Can etch metals.  
H314 Causes severe burns of the skin and eye damage. H318 Causes severe eye damage.

**Complete text of [CLP/GHS]**

**Met. Corr. 1, H290: METALIZING - Category 1 classifications**  
**Skin Corr./Irrit. 1B, H314:**  
SKIN / SKIN IRRITATION - Category 1B  
**Eye Dam. /Irrit. 1, H318:**  
SERIOUS EYE DAMAGE / EYE IRRITATION - Category 1

**Complete text of abridged R phrases**

R34- Causes burns.

**Complete text of ratings [DSD / DPD]**

C - Corrosive

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Prepared by: E.Marker A/S

|| Indicates information that has been changed from the previous version.

**Notice to the reader**

In our sole discretion, the information contained in this safety data sheet is accurate on the date of its issue. The purpose of the information is safety instructions and relate exclusively to the specific substance and its uses. The information does not necessarily apply to substances when combined with other substances, or used in ways other than those described, as all substances may have unknown risks and should be used with caution. Responsible for the final assessment of the suitability of the substance is solely for the user.