

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Sitofex 1 EC

Version 5.1 / REG_EU
Revision Date: 11.04.2017

Specification: 136455
Material no.:

Date of first issue: 11.04.2017
Print Date: 12.02.2018

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

1.1 Product identifier

Trade name : Sitofex 1 EC
Registration number : if available listed in Chapter. 3

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

Use of the Sub-stance/Mixture : Raw material for plant growth regulator, Used in agriculture

1.3 Details of the supplier of the safety data sheet

Company : AlzChem Trostberg GmbH
Dr.-Albert-Frank-Str. 32
83308 Trostberg, Germany
Telephone : +49 8621 86-3351
E-mail address of person responsible for the SDS : alz-pst@alzchem.com

1.4 Emergency telephone number

Emergency telephone number : +49 8621 86-2776
AlzChem Trostberg GmbH, Fire Brigade

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.
Skin irritation, Category 2 H315: Causes skin irritation.
Eye irritation, Category 2 H319: Causes serious eye irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :  

Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Supplemental Hazard Statements : EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

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Precautionary statements :

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Additional Labelling

Do not contaminate water with the product or its container.

To protect aquatic organisms respect an unsprayed buffer zone of 3 m to surface water bodies.

2.3 Other hazards

|| A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out
|| Vapours may cause drowsiness and dizziness.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Formulation of a phenylurea derivative as an emulsion concentrate

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
ethanol; ethyl alcohol	64-17-5 200-578-6 01-2119457610-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319	> 50
forchlorfenuron	68157-60-8 614-346-0 613-254-00-8	Carc. 2; H351 Aquatic Chronic 2; H411	0,12

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

- | | | |
|-------------------------|---|--|
| General advice | : | Seek medical advice in case of symptoms caused by eye or skin contact, inhalation or swallowing.
Change contaminated, soaked clothes. |
| If inhaled | : | Move to fresh air. |
| In case of skin contact | : | Wash off with plenty of water and soap. |
| In case of eye contact | : | Immediately flush eye(s) with plenty of water.
Keep eye wide open while rinsing. |
| If swallowed | : | Rinse mouth.
Drink plenty of water.
Do not induce vomiting without medical advice. |

4.2 Most important symptoms and effects, both acute and delayed

- | | | |
|----------|---|--|
| Symptoms | : | Irritant effect on eyes and skin
Effects on the CNS are also possible after inhalation. |
|----------|---|--|

4.3 Indication of any immediate medical attention and special treatment needed

- | | | |
|-----------|---|---|
| Treatment | : | No specific antidote known.
Symptomatic treatment.
If necessary
gastric lavage
If necessary, administer activated charcoal (10-20g) and sodium sulfate (Glauber salt, 20g). |
|-----------|---|---|

SECTION 5: Firefighting measures

5.1 Extinguishing media

- | | | |
|------------------------------|---|--|
| Suitable extinguishing media | : | Alcohol-resistant foam
Carbon dioxide (CO ₂)
Dry powder
Water spray |
|------------------------------|---|--|

5.2 Special hazards arising from the substance or mixture

- | | | |
|-------------------------------|---|---|
| Hazardous combustion products | : | Carbon oxides
nitrous gases
Traces of:
hydrogen chloride (HCl) |
|-------------------------------|---|---|

5.3 Advice for firefighters

- | | | |
|---|---|---|
| Special protective equipment for firefighters | : | In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit. |
| Further information | : | Do not contaminate surface water. |

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Cool containers/tanks with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Keep away from sources of ignition - No smoking.
Ensure adequate ventilation.
Wear personal protective equipment; see section 8.

6.2 Environmental precautions

Environmental precautions : Product or extinguishing water with product must not be allowed to enter soil, sewers or natural bodies of water.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
Sweep up and shovel.
Keep in suitable, closed containers for disposal.
Then flush with water.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Ensure good ventilation during processing.

Advice on protection against fire and explosion : Vapours may form explosive mixtures with air. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Hygiene measures : Do not inhale vapours / aerosols. Avoid contact with skin, eyes and clothing. Take off clothing and shoes contaminated with product. Clean before reuse. Do not eat, drink or smoke while working. Wash hands, and/or face before breaks and when workday is finished. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep out of the reach of children.

Further information on storage conditions : Keep containers tightly closed in a dry, cool and well-ventilated place. Avoid light effect, sun rays, heat effect.

Advice on common storage : Keep away from food, drink and animal feedingstuffs.

Packaging material : Suitable material: polyethylene, glass

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7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Engineering measures

Provide washing facilities in the workplace.

Personal protective equipment

Eye protection : Safety glasses

Hand protection

Material : Nitrile rubber, Recommendation: Rubiflex S NB 35 S
Break through time : > 30 min
Glove thickness : 0,5 mm
Directive : DIN EN 374
Manufacturer : Kächele-Cama Latex GmbH (KCL), Germany

Material : Nitrile rubber, Recommendation: Camatril 730
Break through time : 175 min
Glove thickness : 0,4 mm
Directive : DIN EN 374
Manufacturer : Kächele-Cama Latex GmbH (KCL), Germany

Material : Butyl-rubber, Recommendation: Butoject 898
Break through time : > 480 min
Glove thickness : 0,7 mm
Directive : DIN EN 374
Manufacturer : Kächele-Cama Latex GmbH (KCL), Germany

Remarks : In case of contact through splashing: elbow-length rubber gloves
Change protective gloves regularly.

Skin and body protection : When opening the container, decanting or blending:
Hand protection
suitable protective clothing / face protection
cotton overalls buttoned to the neck and wrist (or equivalent clothing)

When using the prepared spray:
cotton overalls buttoned to the neck and wrist (or equivalent clothing)

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.
Respirator with brown A-type filter

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: yellowish
Odour	: alcohol-like
pH	: 7,7 - 7,8 Concentration: 7,5 g/l
Boiling point/boiling range	: ca. ≥ 78 °C Ethanol
Flash point	: 16 °C
Upper explosion limit	: 28 %(V)
Lower explosion limit	: 1,5 %(V)
Vapour pressure	: 59 hPa (20 °C)
Density	: 0,81 - 0,84 g/cm ³ (20 °C)
Solubility(ies) Water solubility	: completely miscible (20 °C)
Partition coefficient: n- octanol/water	: log Pow: 3,2 (20 °C) active substance
Auto-ignition temperature	: ca. 425 °C

9.2 Other information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

|| See section 10.3

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Keep away from direct sunlight.
Keep away from heat and sources of ignition.

10.5 Incompatible materials

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Materials to avoid : Acids and bases
Oxidizing agents

10.6 Hazardous decomposition products

|| see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

ethanol; ethyl alcohol:

Acute oral toxicity : Assessment: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Assessment: Based on available data, the classification criteria are not met.

forchlorfenuron:

Acute oral toxicity : LD50 (Rat): 4918 mg/kg
Remarks: Own test result.

Acute inhalation toxicity : LC50 (Rat): > 3 mg/l
Exposure time: 4 h
Remarks: maximum concentration in the test: no animals died.
Own test result.

Acute dermal toxicity : LD50 (Rabbit): > 2000 mg/kg
Remarks: Own test result.

Skin corrosion/irritation

Product:

Species: Rabbit
Exposure time: 4 h
Method: OECD Guide-line 404
Result: Moderate skin irritation
Test substance: Own test result.

Components:

ethanol; ethyl alcohol:

Assessment: Based on available data, the classification criteria are not met.
Remarks: IUCLID

forchlorfenuron:

Species: Rabbit
Result: No skin irritation
Remarks: Own test result.

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Serious eye damage/eye irritation

Product:

Method: OECD Guide-line 405
Result: slightly irritating
Remarks: Own test result.

Components:

ethanol; ethyl alcohol:

Species: Rabbit
Method: OECD Guide-line 405
Result: irritating

forchlorfenuron:

Species: Rabbit
Result: slight irritation
Remarks: Own test result.
Product dust may cause temporary mechanical eye irritation.

Respiratory or skin sensitisation

Components:

ethanol; ethyl alcohol:

Assessment: Based on available data, the classification criteria are not met.
Remarks: IUCLID

forchlorfenuron:

Species: guinea pig
Result: not sensitizing
Remarks: literature

Germ cell mutagenicity

Components:

ethanol; ethyl alcohol:

Germ cell mutagenicity- Assessment : Based on available data, the classification criteria are not met.
Remarks: IUCLID

forchlorfenuron:

Germ cell mutagenicity- Assessment : Not mutagenic in a battery of in-vitro test systems.

Carcinogenicity

Components:

ethanol; ethyl alcohol:

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Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.
Remarks: IUCLID

forchlorfenuron:

Remarks: H351: Suspected of causing cancer.
EU-CLP as per Regulation (EU) No. 1272/2008, Annex VI

Carcinogenicity - Assessment : The classification criteria are not met based on the available data., The available data does not support the harmonized classification.

Reproductive toxicity

Components:

ethanol; ethyl alcohol:

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.
Remarks: IUCLID

forchlorfenuron:

Reproductive toxicity - Assessment : no data available

STOT - single exposure

Components:

ethanol; ethyl alcohol:

Assessment: Based on available data, the classification criteria are not met.
Remarks: IUCLID

forchlorfenuron:

Remarks: no data available

STOT - repeated exposure

Components:

ethanol; ethyl alcohol:

Assessment: Based on available data, the classification criteria are not met.
Remarks: IUCLID

forchlorfenuron:

Remarks: no data available

Aspiration toxicity

Product:

no data available

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Components:

ethanol; ethyl alcohol:

Based on available data, the classification criteria are not met.
Remarks: IUCLID

forchlorfenuron:

No data available

Further information

Product:

Remarks: Chronic overexposure to ethanol may cause liver damage and cirrhosis of the liver, central nervous system depression, headache and dizziness.
Concentrations substantially above the TLV value may cause narcotic effects.

Remarks: No additional toxicological data are available.

SECTION 12: Ecological information

12.1 Toxicity

Components:

ethanol; ethyl alcohol:

Toxicity to fish : LC50 (Pimephales promelas): 14200 mg/l
Exposure time: 96 h
Remarks: IUCLID

Toxicity to daphnia and other : LC50 (Ceriodaphnia dubia (water flea)): 5012 mg/l
aquatic invertebrates : Exposure time: 48 h
Remarks: IUCLID

forchlorfenuron:

Toxicity to fish : LC50 (Oncorhynchus mykiss): 9,2 mg/l
Exposure time: 96 h
Remarks: Own test result.

Toxicity to daphnia and other : EC50 (Daphnia magna): 8,0 mg/l
aquatic invertebrates : Exposure time: 48 h
Remarks: Own test result.

Toxicity to algae : EC50 (selenastrum capricornutum): 3,3 mg/l
End point: Biomass
Exposure time: 72 h
Remarks: Own test result.

EC50 (selenastrum capricornutum): 5,3 mg/l
End point: growth rate
Exposure time: 72 h
Remarks: Own test result.

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NOEC : 1 mg/l
Exposure time: 72 h
Remarks: Own test result.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 2 mg/l
Exposure time: 21 d
Species: Daphnia (water flea)
Remarks: Own test result.

Toxicity to soil dwelling organisms :
Species: Eisenia foetida
Remarks: Non toxic to earthworms

Toxicity to terrestrial organisms : LD50: > 2250 mg/l
Species: Colinus virginianus (Bobwhite quail)
Test substance: active substance
Remarks: Non toxic to bees

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Components:

ethanol; ethyl alcohol:

Biodegradability : Remarks: Readily biodegradable.

forchlorfenuron:

Biodegradability : Remarks: Not readily biodegradable.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Components:

ethanol; ethyl alcohol:

Partition coefficient: n-octanol/water : log Pow: -0,35 (24 °C)

forchlorfenuron:

Partition coefficient: n-octanol/water : log Pow: 3,2 (20 °C)

12.4 Mobility in soil

no data available

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12.5 Results of PBT and vPvB assessment

Product:

Assessment : A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

12.6 Other adverse effects

Product:

Additional ecological information : Prevent penetration into soil, stretches of water and drainage systems.
No further ecotoxicological data are available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Must be brought to an adequate waste treatment facility, in conformity with applicable waste disposal regulations.

Contaminated packaging : Rinse empty containers with water and use the rinse-water to prepare the working solution.
Triple rinse containers.
Puncture container to avoid re-use.
Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.

SECTION 14: Transport information

14.1 UN number

ADR : UN 1170
RID : UN 1170
IMDG : UN 1170
IATA : UN 1170

14.2 UN proper shipping name

ADR : ETHANOL SOLUTION
RID : ETHANOL SOLUTION
IMDG : ETHANOL SOLUTION
IATA : Ethanol solution

14.3 Transport hazard class(es)

ADR : 3
RID : 3
IMDG : 3
IATA : 3

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14.4 Packing group

ADR

Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3
Tunnel restriction code : (D/E)
Remarks : Observe listed materials regulation §35, paragraph 1
GGVSEB

RID

Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3

IMDG

Packing group : II
Labels : 3
EmS Code : F-E, S-D

IATA (Cargo)

Packing instruction (cargo aircraft) : 364
Packing instruction (LQ) : Y341
Packing group : II
Labels : Flammable Liquids
Remarks : ERG-Code 3L
Maximum Net Quantity per Package 60 L

IATA (Passenger)

Packing instruction (passenger aircraft) : 353
Packing instruction (LQ) : Y341
Packing group : II
Labels : Flammable Liquids
Remarks : ERG-Code 3L
Maximum Net Quantity per Package 5 L

14.5 Environmental hazards

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

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SECTION 15: Regulatory information

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

Other regulations:

Restricted to professional users.

According to EU Regulation 1107/2009/EEC and country-specific requirements.

15.2 Chemical safety assessment

No substance safety assessment is required for this product because use of the substance is already regulated within the framework of specific legal regulations.

SECTION 16: Other information

Full text of H-Statements

H225 : Highly flammable liquid and vapour.
H319 : Causes serious eye irritation.
H351 : Suspected of causing cancer.
H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Chronic : Chronic aquatic toxicity
Carc. : Carcinogenicity
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International

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Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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