

Date: 2021-03-30 Former date:

This data sheet contains changes from the previous version ""

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

- 1.1 **Commercial Product Name / UFI - Code:** Aktivator / No data available
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against:** None known.
Use of the Substance/Preparation: Accelerator for quick drying of the Spange glue
Chemical nature of the preparation: Organic Solvent
- 1.3 **Details of the manufacturer / supplier of the safety data sheet:**
Address: Manufacturer, supplier:
 Bernd Stolz GmbH, Fuggerstr. 36 a, 92224 Amberg, Germany, Telephone: 09621 22188, Telefax: 09621 21048
Contact Person: Mr. Bernd Stolz, eMail: info@bs-spange.de
Responsible for the safety data sheet: :
 CHEMCO123 ® – Chemical Consultancy, graduate chemist Rosemarie Fechner, Telephone: + 49 5221 6935980
 e-mail address: info@chemco123.de
- 1.4 **Emergency telephone number:**
 Beratungsstelle für Vergiftungserscheinungen: + 49 30 19240 (with costs)
 Emergency – Telephone of Company / Undertaking: 09621 22188

SECTION 2: Hazards identification2.1 **Classification according:**

Hazard Statement	Hazard Class and - Category
H225 - Highly flammable liquid and vapour.	Flam. Liq. 2
H319 - Causes serious eye irritation.	Eye Irrit 2
H336 - May cause drowsiness or dizziness.	STOT SE 3
EUH208 - Contains Spearmint extract. May produce an allergic reaction.	
EUH066 - Repeated exposure may cause skin dryness or cracking.	

2.2 **Label elements:**

Danger

Contains Spearmint extract. May produce an allergic reaction

Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.
Repeated exposure may cause skin dryness or cracking.Keep away from heat/sparks/open flames/hot surfaces. No smoking. Store in a well-ventilated place.
Keep cool. Use only outdoors or in a well-ventilated area. Wear protective gloves made of buty rubber in accordance with EN 374 and eye protection in accordance with EN 166.

Store locked up. Dispose of contents / container to a recognized disposal company.

2.3 **Other hazards:****Human experience:**

May cause respiratory irritation. Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product. In use, may form flammable/explosive vapour-air mixture.

Commercial Product Name: Aktivator**Manufacturer, supplier:** Bernd Stolz GmbH, Fuggerstr. 36 a, 92224 Amberg, Germany, Telephone: 09621 22188**Date:** 2021-03-30 **Former date:****Aquatic environment**

Slightly water endangering.

Persistent, bioaccumulative and toxic substances (PBT-substances): None.

Very persistent and very bioaccumulative substances (vPvB-substances): None.

SECTION 3: Composition/information on ingredients3.1. **Substances:** Not applicable.3.2. **Mixtures:****Dangerous Ingredients**

CAS - No.	Index - No.	EC - No.	Chemical name / REACH registration number	m% - range	pictogram(e)	H - phrases
141-78-6	607-022-00-5	205-500-4	Ethylacetate / 01-2119475103-46-XXXX	95 < C < 100 %	GHS07 GHS02	H225 H319 H336 EUH066
84696-51-5	Keine	283-656-2	Spearmint extract / 01-2120744216-58	0,1 < C < 1 %	GHS02 GHS07 GHS09 GHS08	H226 H315 H317 H304 H411

H226 = Flam. Liq. 3, H315 = Skin Irrit. 2, H317 = Skin Sens. 1, H304 = Asp. Tox. 1, H411 = Aquatic Chronic 2

SECTION 4: First aid measures4.1 **Description of first aid measures:****General advice:**

Show this safety data sheet to the doctor in attendance.

Inhalation:

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

Consult a physician if necessary.

Skin contact:

Wash off with soap and water. In the case of skin irritation or allergic reactions see a physician.

Eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion:

Do not induce vomiting. Not to be kept in the mouth. Clean mouth with water and drink afterwards plenty of water.

Call a physician immediately.

4.2 **Most important symptoms and effects, both acute and delayed:****Local effects on the eyes and skin:** Burning sensation, reddening, lacrimation.**Inhalation:** burning in the throat, cough.**With moderate poisoning:** Bronchoconstriction with shortness of breath.**Oral intake:** Burning and intensified reddening of the mucous membrane in the throat and esophagus, nausea and vomiting, coughing.**Systemic effects:** Mild poisoning: headache, hypersalivation, drowsiness.**Moderate poisoning:** Additionally: Unconsciousness.**Severe poisoning in addition:** Confusion, deep unconsciousness up to narcosis with respiratory insufficiency.4.3 **Indication of any immediate medical attention and special treatment needed:**

Treat symptomatically.

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SECTION 5: Firefighting measures

- 5.1 **Extinguishing media:**
Suitable extinguishing media: Use dry chemical, CO₂, water spray or "alcohol" foam.
Unsuitable extinguishing media: None.
- 5.2 **Special hazards arising from the substance or mixture:**
 In the event of fire the following can be released: Carbon oxides.
- 5.3 **Advice for firefighters:** Cool containers / tanks with water spray.
Special protective equipment for firefighters:
 Special protective equipment for firefighters:

SECTION 6: Accidental release measures

- 6.1 **Personal precautions, protective equipment and emergency procedures:**
- 6.1.1 *For non-emergency personnel:*
 Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Emergency procedures such as the need to evacuate the danger area or to consult an expert.
- 6.1.2 *For emergency responders:*
 Use personal protective equipment. Inform the untrained personnel that the precautions listed in the subsection 6.1.1 are complied with.
- 6.2 **Environmental precautions:**
 Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained. Soak up with inert absorbent material (e.g. sand, silica gel, universal binder).
 Shovel into suitable container for disposal. After cleaning, flush away traces with water.
- 6.3 **Methods and material for containment and cleaning up:**
- 6.3.1 *Methods and material for containment:*
 Soak up with inert absorbent material (e.g. sand, silica gel, universal binder). Shovel into suitable container for disposal. After cleaning, flush away traces with water.
- 6.3.2 *Methods and material for cleaning up:*
 After cleaning, flush away traces with water.
- 6.3.3 **Inappropriate containment or clean-up techniques:**
 None.
- 6.4 **Reference to other sections:**
 See section 8 / 13.

SECTION 7: Handling and storage

- 7.1 **Precautions for safe handling:**
- 7.1.1 **Recommendations shall be specified to:**
 Keep container tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Vapours are heavier than air and may spread along floors.
- 7.1.2 **Advice on general occupational hygiene shall be provided:**
 Remove and wash contaminated clothing before re-use. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. When using do not eat or drink. When using do not smoke.
- 7.2 **Conditions for safe storage, including any incompatibilities:**
 Reactions with strong oxidizing agents, chlorosulfonic acid, potassium tert-butoxide and fluorine. Risk of explosion on contact with alkali metals, lithium aluminum hydride and oleum.
Precautions in Case of Fire and Explosion:
 Take precautionary measures against static discharge. Remove all sources of ignition.
Storage Instructions:
 Keep container tightly closed in a cool, well-ventilated place. Remove all sources of ignition.
- 7.3 **Specific end use(s):**
 Accelerator for quick drying of the Spange glue.

Commercial Product Name: Aktivator**Manufacturer, supplier:** Bernd Stolz GmbH, Fuggerstr. 36 a, 92224 Amberg, Germany, Telephone: 09621 22188**Date:** 2021-03-30 **Former date:****SECTION 8: Exposure controls/personal protection****8.1 Control parameters:****CAS / Material****Limit Value according to TRGS 900/ EC Guidline 2000/39:**

141-78-6 / Ethylacetate	Germany 8 hours: 200 ppm, 730 mg/m ³ (1) Germany 0,25 hours: 400 ppm, 1460 mg/m ³ (1) European Union: 8 hours: 200 ppm, 734 mg/m ³ European Union: 0,25 hours: 400 ppm, 1468 mg/m ³ A risk of fetal damage does not need to be feared if the air limit value is adhered to.
84696-51-5 / Spearmint extract	No data available.

Reference: Gestis Data base - Data on chemical media

DNEL-Values: Ethylacetate	
Excessive exposures - systemic and local properties:	Inhalation: 734 mg / m ³
DNEL- Values: Spearmint extract	
Excessive exposures - systemic properties:	Inhalation: 6,48 mg / m ³

PNEC values: Ethyl acetate

Fresh water 0.24 mg / l, marine water 0.024 mg / l

Fresh water sediment 1.15 mg / kg, marine sediment 0.115 mg / kg

Microorganisms in sewage treatment plants 650 mg / l

Soil 0.148 mg / kg

8.2 Exposure controls:

Ingredients named in section 8.1.

8.2.1 Appropriate engineering controls:

Ensure adequate ventilation, especially in confined areas.

8.2.2 Personal Protective Equipment**Respiratory Protection:** In the case of vapour formation use a respirator with filter model A.**Hand Protection:***Excessive exposure:* Protective gloves (butyl rubber) according to EN 374.
Break through time: > 60 Min. Glove thickness: 0,5 mm.*Short time exposure:* Protective gloves according to EN 374. (butyl rubber).
Break through time: > 30 Min. Glove thickness: 0,4 mm / Level 2.
Refer to manufacturer of gloves for detailed information.**Unsuitable materials:** Nitrile rubber, natural rubber, PVC, fluororubber, fabric and leather gloves**Eye Protection:** Tightly fitting safety goggles according to EN 166.**Skin Protection:** Impervious protective clothing resistant to solvents.**Further Information:** Choose body protection according to the amount and concentration of the dangerous substance at the work place.**Thermal hazards:** None.**8.2.3 Environmental exposure controls:** None.**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties:****Appearance:** liquid
Colour: colourless

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Odour: faint smell of spearmint
Odour threshold: no data available

Safety Relevant Data - Ethylacetate

pH-, (undiluted): not applicable
 Boiling point/range: (°C): ~ -83
 Melting point/range : (°C): no data available
 Flash point (°C): < 21
 Evaporation Rate: no data available
 Flammability (solid, gas): Highly flammable liquid and vapour.
 Lower flammability or explosive limits: 2 (73 g/m³)
 Upper flammability or explosive limits: 12,8 (470 g/m³)
 Vapour pressure: 98,4 hPa (20 °C), 380 hPa (50 °C)
 Vapour density ((Air = 1.0)): > 1
 Relative density (g/cm³): ~ 0,9 (20 °C)
 Water solubility: soluble (86 g/l)
 Soluble in: esters Ketones, n.o.s. (nur Ketone) Not relevant
 Fat solubility: no data available
 Partition coefficient (n-octanol/water): 1,78 (n-Butylacetat) / 0,73 (Ethylacetat)
 Ignition temperature °C: ~ 470
 Decomposition temperature °C: no data available
 Viscosity: no data available
 Oxidising properties: not applicable
 Explosive properties: In use, may form flammable/explosive vapour-air mixture.
 Solvent (g/100 g): 95 - < 100
 VOC (g / kg): 950 < 1000

9.2 **Other information:**
 Thermal decomposition (°C): no data available
 Vapour density (Air = 1): no data available
 Evaporation rate: no data available

SECTION 10: Stability and reactivity

- 10.1 **Reactivity:**
Highly flammable liquid and vapour.
- 10.2 **Chemical stability:**
Stable at normal conditions
- 10.3 **Possibility of hazardous reactions:**
Reactions with strong oxidizing agents, chlorosulfonic acid, potassium tert-butoxide and fluorine. Risk of explosion on contact with alkali metals, lithium aluminum hydride and oleum.
- 10.4 **Conditions to avoid:**
Ignition sources and electrostatic charge.
- 10.5 **Incompatible materials:**
Plastics such as nitrile rubber, natural rubber, PVC.
- 10.6 **Hazardous decomposition :**
Ethyl acetate is slowly split into acetic acid and ethanol under the action of light and air, on contact with water.

SECTION 11: Toxicological information

- 11.1 **Information on toxicological effects**
- 11.1.1 **Mixtures**
- Acute toxicity**
- LC50/inhalation/ ppm / 4h / rat= ~ 4000
 LD50/oral/rat mg/kg = ~ 5620
 LD50/dermal/rab mg/kg > 18
- Skin corrosion/irritation Repeated exposure may cause skin dryness or cracking.
 Serious eye damage/irritation Causes serious eye irritation.
 Sensitization: Contains Spearmint extract. May produce an allergic reaction.

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	Carcinogenicity:	None.
	Mutagenicity:	None
	STOT-single exposure:	May cause drowsiness or dizziness.
	Toxicity for reproduction	A risk of fetal damage does not need to be feared if the air limit value is adhered to
11.1.1	Substances	
	Acute toxicity Ethylacetate:	
	LC50/inhalation/ ppm / 4h / rat	4000
	LD50/oral/rat mg/kg =	> 5620
	LD50/dermal/rab g/kg =	> 18
	Skin corrosion/irritation	Repeated exposure may cause skin dryness or cracking.
	Serious eye damage/irritation	Causes serious eye irritation.
	Respiratory or skin sensitisation	None.
	Germ cell mutagenicity	None.
	Carcinogenicity	None.
	Reproductive toxicity	A risk of fetal damage does not need to be feared if the air limit value is adhered to
	STOT-single exposure	May cause drowsiness or dizziness.
	STOT-repeated exposure	None.
	Aspiration hazard	No data available.
	Acute toxicity Spearmint extract:	
	LC50/inhalation/4h/rat =	No data available.
	LD50/oral/rat =	No data available.
	LD50/dermal/rat =	No data available.
	Skin corrosion/irritation	Causes skin irritation.
	Serious eye damage/irritation	None
	Respiratory or skin sensitisation	May cause an allergic skin reaction.
	Germ cell mutagenicity	None.
	Carcinogenicity	None.
	Reproductive toxicity	none.
	STOT-single exposure	None.
	STOT-repeated exposure	None.
	Aspiration hazard	May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

- 12.1 **Toxicity:** Slightly water endangering.
Ethylacetate:
 LC50 Fish (96 hours): Median value: 328 mg/l
 LC50 Crustaceans (48 hours): Median value:: 679 mg/l
 EC50 Algae (72 / 96 hours): Median value:: 2500 mg/l
Spearmint extract:
 LL50 Fish (96 hours): > 4,6 mg/l
 EL50 Crustaceans (48 hours): 10 mg/l
- 12.2 **Persistence and degradability:**
 The product evaporates easily. Biodegradable.
- 12.3 **Toxicity to crustaceans- median value:**
- 12.3 **Bioaccumulative:**
 Does not bioaccumulate.
- 12.4 **Mobility in soil:**
 Does not bioaccumulate.
- 12.5 **Results of PBT and vPvB assessment:**
 Persistent, bioaccumulative and toxic substances (PBT-substances): None.
 Very persistent and very bioaccumulative substances (vPvB-substances): None.
- 12.6 **Other adverse effects**
 No data is available on the product itself.

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SECTION 13: Disposal considerations

13.1 **Waste treatment methods:**

Methods of waste treatment of both the substance or mixture and any contaminated packaging

Suggestions: Dispose of contents / container to a recognized disposal company.

Waste disposal number: 20 01 13 - Solvent (Decision 2014/955/EU)

SECTION 14: Transport information

Transportation according to ADR/GGVS, IMDG/GGVSee and IATA-DGR/ICAO-TI:

14.1 **UN-Nummer:** UN 1173

14.2 **UN proper shipping name:** UN 1173 ETHYLACETATE

14.3 **Transport hazard class(es):** 3 / F1

Risk Label: 3

14.4 **Packaging group:** II

Transport category (Tunnel restriction code): 2(DE)

Limited quantities: 1 l per inner packaging and 30 kg gross weight

14.5 **Environmental hazards:**

Marine pollutant: No.

14.6 **Special precautions for user:**

None.

14.7 **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:**

n.ap.

SECTION 15: Regulatory information

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

Compliance with occupational safety, Notification required at ECHA (European Chemical Agency)

Regulation (EC) 1223/2009 (cosmetics): No.

Regulation (EC) 1005/2009: not applicable.

Regulation (EC) 850/2004: not applicable..

Regulation (EC) 649/2012: not applicable..

Directive 96/82/EC: applicable. (Observance of the quantity thresholds)

Regulation (EC) No 648/2004 on detergents: not applicable

15.2 **Chemical safety assessment:**

SECTION 16: Other information

H - Phrases:

H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H304 - May be fatal if swallowed and enters airways.

H411 - Toxic to aquatic life with long lasting effects.

Abbreviations:

PNEC = predicted no effect concentration

DNEL-(Derived No-Effect Levels)

UFI - Code = Unique Formula Identifier Code

Regulation (EC) 1005/2009: Substances that deplete the ozone layer

Regulation (EC) 850/2004: Persistent organic pollutants

Regulation (EC) 649/2012: Export and import of dangerous chemicals

Further information to work out the Data sheet:

Data of the producer.

Classification: According to Regulation (EC) No 1272/2008 including the amending regulations.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible.

They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

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