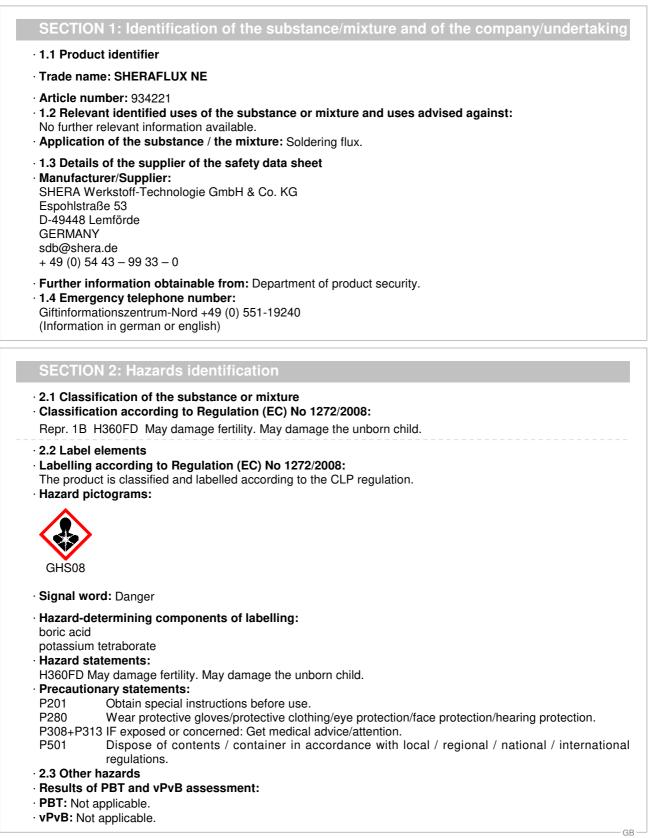


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• 3.2 Mixtures • Description: Mixture of subs	tances listed below with nonhazardous additions.	
· Dangerous components:		
CAS: 10043-35-3 EINECS: 233-139-2 Index number: 005-007-00-2 Reg.nr.: 01-2119486683-25	boric acid Repr. 1B, H360FD Specific concentration limit: Repr. 1B; H360: C ≥ 5.5 %	25-<100%
CAS: 12045-78-2 Reg.nr.: 01-2119970730-37	potassium tetraborate Repr. 2, H361d	≥3-≤10%
CAS: 14075-53-7 EINECS: 237-928-2	potassium tetrafluoroborate Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≥1-<10%
SVHC		
10043-35-3 boric acid		25-<100%

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:
- Generally the product does not irritate the skin.
- Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Seek immediate medical advice.
- · 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- \cdot 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions Do not allow to enter sewers / surface or ground water.
- 6.3 Methods and material for containment and cleaning up

Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

- 6.4 Reference to other sections
- See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation / exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of dust.

Avoid contact with skin, eye and clothing.

· Information about fire - and explosion protection: Keep respiratory protective device available.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage

· Requirements to be met by storerooms and receptacles: No special requirements.

- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- Storage class: No information available.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with	limit values that require monitoring at the workplace:	
10043-35-3 borio		
AGW (Germany)	Long-term value: 0.5* mg/m ³ 2(I);*inhalable; AGS, Y, 10	
14075-53-7 potas	ssium tetrafluoroborate	
WEL (Great Brita	in) Long-term value: 2.5 mg/m ³ as F	
AGW (Germany)	Long-term value: 1 E mg/m ³ 4(II);als Fluor berechnet; EU, DFG, Y, H	
IOELV (EU)	Long-term value: 2.5 mg/m ³ as F	
· Ingredients with	biological limit values:	
14075-53-7 potas	ssium tetrafluoroborate	
	Specimen: Urine Sampling time: After exposure ends or after the shift ends Parameters: fluoride 4.0 mg/g Kreatinin Specimen: Urine Sampling time: After exposure ends or after the shift ends Parameters: fluoride	
 Additional inform 	nation: The lists valid during the making were used as basis.	
Individual protect General protecti The usual precau Keep away from f Immediately removies Wash hands before	ntrols ineering controls No further data; see item 7. ction measures, such as personal protective equipment ve and hygienic measures: tionary measures are to be adhered to when handling chemicals. oodstuffs, beverages and feed. ove all soiled and contaminated clothing. re breaks and at the end of work. lothing separately.	
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· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product. Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

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

· Eye/face protection Safety glasses.

SECTION 9: Physical and chemical properties

\cdot 9.1 Information on basic physical and chemical p	roperties	
· General Information		
· Colour:	Colorless	
· Odour:	Odourless	
· Melting point/freezing point:	Undetermined.	
· Boiling point or initial boiling point and boiling		
range	Undetermined.	
· Flammability	Not determined.	
· Lower and upper explosion limit		
· Lower:	Not determined.	
· Upper:	Not determined.	
Flash point:	Not applicable.	
Auto-ignition temperature:	Product is not selfigniting.	
Decomposition temperature:	Not determined.	
· pH	Not applicable.	
· Viscosity:		
Kinematic viscosity	Not determined.	
······	Not applicable.	
Dynamic:	Not determined.	
	Not applicable.	
Solubility		
water:	Not determined.	
Partition coefficient n-octanol/water (log value)	Not determined.	
· Vapour pressure:	Not applicable.	
Density and/or relative density		
· Density:	Not determined.	
Relative density	Not determined.	
· Vapour density	Not applicable.	
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9.2 Other information	
Appearance:	
Form:	Solid
Important information on protection of healt	th and
environment, and on safety.	
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
Organic solvents:	0.0 %
VOC (EC):	0.00 %
Change in condition:	
Evaporation rate	Not applicable.
Information with regard to physical hazard cl	asses
Explosives	Void.
Flammable gases	Void.
Aerosols	Void.
Oxidising gases	Void.
Gases under pressure	Void.
Flammable liquids	Void.
Flammable solids	Void.
Self-reactive substances and mixtures	Void.
Pyrophoric liquids	Void.
Pyrophoric solids	Void.
Self-heating substances and mixtures	Void.
Substances and mixtures, which emit flamma	able
gases in contact with water	Void.
Oxidising liquids	Void.
Oxidising solids	Void.
Organic peroxides	Void.
Corrosive to metals	Void.
Desensitised explosives	Void.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No data available.
- · 10.2 Chemical stability No decomposition if used according to specifications.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials No further relevant information available.
- · 10.6 Hazardous decomposition products No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

· LD/LC50 values relevant for classification:

10043-35-3 boric acid

Oral LD50 2,660 mg/kg (Rat)

• Skin corrosion/irritation Based on available data, the classification criteria are not met.

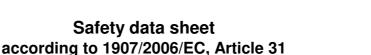
• Serious eye damage/irritation Based on available data, the classification criteria are not met.

· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

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· Carcinogenicity Based on available data, the classification criteria are not met.

· Reproductive toxicity

May damage fertility. May damage the unborn child.

• STOT-single exposure Based on available data, the classification criteria are not met.

· STOT-repeated exposure Based on available data, the classification criteria are not met.

- · Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

· Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Waste disposal key:

The waste disposal code as prescribed in the EuropeanWaste Catalogue (EWC) depends on the waste producer and can thus vary for a product. The waste disposal code should thus be obtained separately from the waste producer in each case.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

14.1 UN number or ID number		
ADR, IMDG, IATA	Void.	
ADN	Void.	
14.2 UN proper shipping name		
ADR, IMDG, IATA	Void.	
14.3 Transport hazard class(es)		
ADR, IMDG, IATA		
Class	Void.	
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· ADN/R Class:	Void.	
· 14.4 Packing group		
· ADR, IMDG, IATA	Void.	
14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for user	Not applicable.	
· 14.7 Maritime transport in bulk according	g to IMO	
instruments	Not applicable.	
· UN "Model Regulation":	Void.	

SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · National regulations:
- · Information about limitation of use:

Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed.

- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57

10043-35-3 boric acid

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

SECTION 16: Other information

This information is based on the state of knowledge and experience pertaining on the date of issue. The information is not to be taken as a guarantee of product properties and do not constitute the basis for a contractual legal relationship. The details must not be changed or transferred to other products. Duplication in an unchanged state is permissible.

Relevant phrases

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

H360FD May damage fertility. May damage the unborn child.

H361d Suspected of damaging the unborn child.

- · Department issuing SDS: Department of product security.
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Miritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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25-<100%

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Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Repr. 1B: Reproductive toxicity – Category 1B Repr. 2: Reproductive toxicity – Category 2 • * Data compared to the previous version altered.

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