SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier
Product Description: Sodium tetrafluoroborate
Cat No. 192120000; 192120025; 192120250; 192125000
Synonyms: Sodium fluoborate

Relevant identified uses of the substance or mixture and uses advised against
Recommended Use: Laboratory chemicals
Uses advised against: No Information available

Details of the supplier of the safety data sheet
Company: Acros Organics BVBA
Janssen Pharmaceuticaalaaan 3a
2440 Geel, Belgium
E-mail address: begel.sdsdesk@thermofisher.com

Emergency Telephone Number
For information in the US, call: 001-800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number, US: 001-201-796-7100
CHEMTREC Phone Number, US: 001-800-424-9300
CHEMTREC Phone Number, Europe: 001-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
REGULATION (EC) No 1272/2008

<table>
<thead>
<tr>
<th>Skin Corrosion/irritation</th>
<th>Category 1 B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>Category 1</td>
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</table>

Classification according to EU Directives 67/548/EEC or 1999/45/EC
For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16
Symbol(s) C - Corrosive
R-phrase(s) R34 - Causes burns

Label Elements
SECTION 2. HAZARDS IDENTIFICATION

Signal Word Danger

Hazard Statements
H314 - Causes severe skin burns and eye damage

Precautionary Statements - EU (§28, 1272/2008)
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/ physician
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P264 - Wash face, hands and any exposed skin thoroughly after handling

Other Hazards
No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Borate(1-), tetrafluoro-, sodium 13755-29-8</td>
<td>EEC No. 237-340-6</td>
<td>&gt;95</td>
<td>13755-29-8</td>
<td>C; R34</td>
<td>Skin Cor. 1B (H314) Eye Dam. 1 (H318)</td>
<td>-</td>
</tr>
</tbody>
</table>

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

SECTION 4. FIRST AID MEASURES

Description of first aid measures
Eye Contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Sodium tetrafluoroborate

Skin Contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Ingestion
Do not induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Get medical attention. If possible drink milk afterwards.

Inhalation
Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

Notes to Physician
Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media
Water spray. Carbon dioxide (CO₂). Dry chemical. chemical foam.

Extinguishing media which must not be used for safety reasons
No information available.

Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

Advice for fire-fighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Environmental precautions

Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not breathe vapors or spray mist. Avoid contact with clothing. Use only in area provided with appropriate exhaust ventilation. Handle under an inert atmosphere.
Conditions for safe storage, including any incompatibilities
Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Corrosives area.

Specific End Uses

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

<table>
<thead>
<tr>
<th>Component</th>
<th>European Union</th>
<th>The United Kingdom</th>
<th>France</th>
<th>Belgium</th>
<th>Spain</th>
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<tbody>
<tr>
<td>Borate(1-), tetrafluoro-, sodium</td>
<td>STEL: 7.5 mg/m³ 15 min</td>
<td>TWA: 2.5 mg/m³ 8 hr</td>
<td>VME: 2.5 mg/m³ 8 hours. indicative limit</td>
<td>VLA-ED: 2.5 mg/m³ 8 horas</td>
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</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Italy</th>
<th>Germany</th>
<th>Portugal</th>
<th>The Netherlands</th>
<th>Finland</th>
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<tbody>
<tr>
<td>Borate(1-), tetrafluoro-, sodium</td>
<td>TWA: 1 mg/m³ 8 Stunden. Inhalable fraction exposure factor 4</td>
<td>TWA: 2.5 mg/m³ 8 horas</td>
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</table>

Borate(1-), tetrafluoro-, sodium

<table>
<thead>
<tr>
<th>Component</th>
<th>Austria</th>
<th>Denmark</th>
<th>Switzerland</th>
<th>Poland</th>
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<tr>
<td>Borate(1-), tetrafluoro-, sodium</td>
<td>TWA: 0.6 mg/m³ 8 timer</td>
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</table>

Biological limit values
This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)
No information available.

Predicted No Effect Concentration (PNEC)
No information available.

Exposure controls

Engineering Measures
Ensure that eyewash stations and safety showers are close to the workstation location

Personal protective equipment

| Eye Protection | Safety glasses with side-shields Goggles |
| Hand Protection | Protective gloves |
| Skin and body protection | Wear appropriate protective gloves and clothing to prevent skin exposure |
| Respiratory Protection | A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149 |

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls
No information available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State
Powder, Solid

Appearance
Light grey
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
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<tbody>
<tr>
<td>odor</td>
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<tr>
<td>pH</td>
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<tr>
<td>Boiling Point/Range</td>
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<tr>
<td>Melting Point/Range</td>
<td>384°C / 723.2°F</td>
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<tr>
<td>Flash Point</td>
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<td>Autoignition Temperature</td>
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<tr>
<td>Water Solubility</td>
<td>1080 g/L (20°C)</td>
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<td>Molecular Formula</td>
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<td>Molecular Weight</td>
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SECTION 10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Moisture sensitive.

Possibility of Hazardous Reactions

- Hazardous Polymerization: No information available.
- Hazardous Reactions: No information available.

Conditions to Avoid

- Incompatible products, Exposure to moist air or water.
- Incompatible Materials
  - Water, Strong oxidizing agents, Strong bases.

Hazardous Decomposition Products

- Fumes, Oxides of boron, Gaseous hydrogen fluoride (HF), Sodium oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Product Information

No acute toxicity information is available for this product

Component Information

Chronic Toxicity
Carcinogenicity
There are no known carcinogenic chemicals in this product

Sensitization
No information available.

Mutagenic Effects
No information available.

Reproductive Effects
No information available.

Developmental Effects
No information available.

Target Organs
No information available.

Other Adverse Effects
The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information

Endocrine Disruptor Information
None known

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity effects
Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

Persistence and degradability
No information available

Bioaccumulative potential
No information available.

Mobility in soil
No information available.

Results of PBT and vPvB assessment

Other adverse effects
No information available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues / Unused Products
Dispose of in accordance with local regulations

Contaminated Packaging
Empty containers should be taken to local recyclers for disposal
SECTION 14. TRANSPORT INFORMATION

IMDG/IMO

<table>
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<th>UN-No</th>
<th>1759</th>
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<tr>
<td>Hazard Class</td>
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IATA

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SECTION 15. REGULATORY INFORMATION

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

International Inventories

<table>
<thead>
<tr>
<th>Component</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>NLP</th>
<th>TSCA</th>
<th>DSL</th>
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<td>X</td>
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Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
CHINA - China Inventory of Existing Chemical Substances
AICS - Inventory of Chemical Substances
KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment
SECTION 16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3
R34 - Causes burns

Revision Date 21-Feb-2012
Revision Summary Not applicable
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
Disclaimer
The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet