SAFETY DATA SHEET

1. IDENTIFICATION

Product code: B1133
Product Name: BORIC ACID, GRANULAR, TECHNICAL

Other means of identification
Synonyms:
- Basilit B
- Boracic acid
- Boron trihydroxide
- Borsaure (German)
- Borofax
- Orthoboric acid
- Trihydroxyborone

CAS #: 10043-35-3
RTECS #: ED4550000
CI#: Not available

Recommended use of the chemical and restrictions on use
Recommended use: Weatherproofing Wood. In the manufacturer of cements, crockery, procelain, enamels, class, borates (inorganic borate salts), leather, carpets, hats, soaps, artificial gems; in painting; in photography; flame retardant in wood and textiles; additive for glass fibers; catalyst for alcohol production; insecticidal..

Uses advised against:
No information available

Supplier:
Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA  90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number
Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>2B</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>2</td>
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</tbody>
</table>

Label elements

Product code: B1133
Product name: BORIC ACID, GRANULAR, TECHNICAL
Hazard statements
Causes eye irritation
Suspected of damaging fertility or the unborn child

Other hazards
May be harmful in contact with skin
May be harmful if swallowed

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
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.

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Trade Secret</th>
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<tr>
<td>Boric Acid</td>
<td>10043-35-3</td>
<td>100</td>
<td>*</td>
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</table>

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention.

Product code: B1133  Product name: BORIC ACID, GRANULAR, TECHNICAL
Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Causes eye irritation. Suspected of damaging fertility or the unborn child.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically

**Protection of first-aiders**

**First-Aid Providers:** Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media:** The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

**Unsuitable Extinguishing Media:** No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:** No information available.

**Specific hazards:**

- A mixture of potassium and boric acid may explode on impact.
- A mixture of boric acid and acetic anhydride will explode when heated to 58-60 C

**Special Protective Actions for Firefighters**

**Specific Methods:** No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

### 6. ACCIDENTAL RELEASE MEASURES

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

**Personal Precautions:** Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

**Methods for containment** Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up** Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.
7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:
Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Avoid dust formation. Do not ingest. Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:
Hygroscopic. Protect from moisture. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
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<tbody>
<tr>
<td>Boric Acid</td>
<td>None</td>
<td>None</td>
<td>= 6 mg/m³ STEL inhalable fraction</td>
<td>None</td>
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Canada

<table>
<thead>
<tr>
<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
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<tbody>
<tr>
<td>Boric Acid</td>
<td>None</td>
<td>= 2 mg/m³ TWA inhalable</td>
<td>2 mg/m³ TWA inhalable Borate compounds, inorganic</td>
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Australia and Mexico

<table>
<thead>
<tr>
<th>Components</th>
<th>Australia</th>
<th>Mexico</th>
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</thead>
<tbody>
<tr>
<td>Boric Acid</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering measures to reduce exposure:
Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles or Safety glasses with side-shields

Product code: B1133  Product name: BORIC ACID, GRANULAR, TECHNICAL
### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>Powder</td>
<td>White</td>
</tr>
</tbody>
</table>

**Odor:** Odorless.

**Formula:** H3BO3

**Flammability:** No information available

**Flashpoint (°C/°F):** No information available.

**Autoignition Temperature (°C/°F):** No information available.

**Melting point/range (°C/°F):** 169-17°C (336.2-339.8°F)

**Boiling point/range (°C/°F):** 300°C (572°F)

**Bulk density:** No information available

**Density (g/cm3):** No information available

**VOC content (g/L):** No information available

**Viscosity:** No information available

**Miscibility:** No information available

**Odor threshold (ppm):** No information available

**Evaporation rate:** No information available

**Partition coefficient (n-octanol/water):** 0.175

**Vapor pressure @ 20°C (kPa):** No information available

**Vapor density:** No information available

**Flash Point Tested according to:** Not available

**pH:** 5.2

**Degradation temperature (°C/°F):** No information available

**Appearance:** Powder.

**Color:** White.

**Molecular/Formula weight:** 61.83 g/mole

**Formula:** H3BO3

**Density (g/cm³):** No information available

**Evaporation rate:** No information available

**Vapor pressure @ 20°C (kPa):** No information available

**Vapor density:** No information available

**Solubility:** Soluble in hot water

**Soluble in Methanol**

**Partially soluble in cold water**

**Very slightly soluble in Acetone**

### 10. STABILITY AND REACTIVITY

**Reactivity**
- Reactive with alkalis
- Mixture of potassium and boric acid may explode on impact.
- Mixture of boric acid and acetic anhydride will explode when heated to 58-60°C
- Reacts with basic materials to form borate salts

**Chemical stability**
- Hygroscopic. Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Incompatible materials. Exposure to moist air. Exposure to moisture.

**Incompatible Materials:** Potassium. Acetic anhydride. Alkalis.

**Hazardous decomposition products:** No information available
Other Information
Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Inhalation. Ingestion. Eyes.

Acute Toxicity

Component Information

Boric Acid - 10043-35-3
LD50/oral/rat = 2660 mg/kg Oral LD50 Rat
LD50/oral/mouse = 3450 mg/kg Oral LD50 Mouse
LD50/dermal/rat = No information available
LD50/dermal/rabbit = >2000 mg/kg Dermal LD50 Rabbit
LC50/inhalation/rat = >0.16 mg/L Inhalation LC50 Rat 4 h
>2.03 mg/L Inhalation LC50 Rat 4 h
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = 2660mg/kg

LD50/oral/mouse =
Value - Acute Tox Oral = 3450mg/kg

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = >2000mg/kg

LD50/dermal/rat
VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = >0.16mg/l (4-hr.)

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms
Skin Contact: It can be absorbed through damaged (broken) or abraded skin. It may be harmful if absorbed through skin. If absorbed through skin, it may cause systemic effects similar to acute ingestion and affect behavior/central nervous system, the gastrointestinal tract, and respiration (respiratory depression).

Eye Contact: Causes eye irritation.

Inhalation
Inhalation of dust can cause respiratory tract and mucous membrane irritation. Symptoms may include, nasal and throat irritation, dryness of throat, dry or productive cough, nose bleeds, shortness of breath, chest pain/ chest tightness.

Ingestion
Severe and fatal poisonings have rarely been reported following acute ingestion. However, acute ingestion can cause digestive/gastrointestinal tract irritation with nausea, vomiting, diarrhea, dehydration. This may be followed by lowered body temperature (hypothermia) or fever (hyperthermia), red skin rash and affects on behavior/brain/Central Nervous System/nervous system (excitation, wakefulness or depression, restlessness, lethargy, weakness, somnolence, headache, dizziness, lightheadedness, drowsiness, nervousness, extreme irritability, delirium, altered reflexes, confusion, alteration in consciousness (described as "clouded"), convulsions, collapse, unconsciousness, coma), cardiovascular system (hypotension, dysrhythmia, arrhythmias), blood (anemia, leukopenia), liver (hepatomegaly, jaundice, transient elevation in liver function tests), urinary system (kidneys - acute renal failure, oliguria) and endocrine system. Metabolic acidosis, coughing, and cyanosis accompanied by a weak, rapid pulse may also occur.

Aspiration hazard
No information available

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

Chronic Toxicity
It can cause borism. Borism is a sign of systemic uptake of boron-containing compounds and is characterized by dry skin, skin eruptions, eczema, and gastric disturbances such as nausea, hypermotility, vomiting, and anorexia and weight loss. Prolonged or repeated dermal application and chronic ingestion may also cause other symptoms similar to acute ingestion, and skin absorption. Chronic ingestion may also cause red tongue, patchy alopecia, cracked lips, conjunctivitis. Prolonged or repeated skin contact may also cause dermatitis. Prolonged or repeated inhalation may cause an increase in phlegm production and chronic bronchitis.

Sensitization:
No information available

Mutagenic Effects:
No information available

Carcinogenic effects:
Not considered carcinogenic

<table>
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<tr>
<th>Components</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
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<tbody>
<tr>
<td>Boric Acid</td>
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<td>A4 Not Classifiable as a Human Carcinogen</td>
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<td>Not listed</td>
<td>Not listed</td>
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</table>

Reproductive toxicity
No data is available

Reproductive Effects:
No information available

Product code: B1133
Product name: BORIC ACID, GRANULAR, TECHNICAL
Developmental Effects:  No information available
Teratogenic Effects:  No information available

Specific Target Organ Toxicity
STOT - single exposure  No information available
STOT - repeated exposure  No information available
Target Organs:  No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:  Aquatic environment.

*Boric Acid - 10043-35-3*

Freshwater Fish Species Data:  1020 mg/L LC50 Carassius auratus 72 h flow-through 1
Water Flea Data:  115 - 153 mg/L EC50 Daphnia magna 48 h
Persistence and degradability:  No information available
Bioaccumulative potential:  No information available
Mobility:  No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

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<thead>
<tr>
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<tbody>
<tr>
<td>Boric Acid</td>
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<td>None</td>
<td>None</td>
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</table>

14. TRANSPORT INFORMATION

DOT

UN-No:  Not Regulated
Proper Shipping Name:  No information available
Hazard Class:  No information available
Subsidiary Risk:  No information available
Packing Group:  None
ERG No:  No information available
Marine Pollutant:  No data available
DOT RQ (lbs):  No information available

TDG (Canada)

Product code:  B1133  Product name:  BORIC ACID, GRANULAR, TECHNICAL
### 14. TRANSPORT INFORMATION

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<td>Hazard Class:</td>
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<td>Packing Group:</td>
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<td>Description:</td>
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**ADR**

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**IMO / IMDG**

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<td>Marine Pollutant:</td>
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<td>Maximum Quantity:</td>
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**RID**

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<td>Description:</td>
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**ICAO**

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**IATA**

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### 15. REGULATORY INFORMATION

**Product code:** B1133  
**Product name:** BORIC ACID, GRANULAR, TECHNICAL
15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>KOREA KECL (PICCS)</th>
<th>Philippines (ENCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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</thead>
<tbody>
<tr>
<td>Boric Acid</td>
<td>Present</td>
<td>Present KE-03499</td>
<td>Present</td>
<td>Present (1)-63</td>
<td>Present</td>
<td>Present</td>
<td>Present 233-139-2</td>
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U.S. Regulations

Boric Acid

**FDA - 21 CFR - Total Food Additives**  175.105  176.180  178.2010  181.30

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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<tbody>
<tr>
<td>Boric Acid</td>
<td>Not Listed</td>
<td>Not Listed</td>
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**CERCLA/SARA**

<table>
<thead>
<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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<tbody>
<tr>
<td>Boric Acid</td>
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<td>None</td>
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**U.S. TSCA**

<table>
<thead>
<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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</thead>
<tbody>
<tr>
<td>Boric Acid</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
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</table>

**Canada**

**WHMIS hazard class:**  
D2A Very toxic materials

**Boric Acid**  
D2A

**Canada Controlled Products Regulation:**  
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

<table>
<thead>
<tr>
<th>Components</th>
<th>WHMIS Ingredient Disclosure List -</th>
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<tbody>
<tr>
<td>Boric Acid</td>
<td>1 %</td>
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**Inventory**

<table>
<thead>
<tr>
<th>Components</th>
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<th>Canada (NDSL)</th>
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<tbody>
<tr>
<td>Boric Acid</td>
<td>Present</td>
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</table>

Product code: B1133  
Product name: BORIC ACID, GRANULAR, TECHNICAL
Components | CEPA Schedule I - Toxic Substances | CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
--- | --- | ---
Boric Acid | Not listed | Not listed

EU Classification

**R-phrase(s)**
R60 - May impair fertility.
R61 - May cause harm to the unborn child.

**S-phrase(s)**
S53 - Avoid exposure - obtain special instructions before use.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boric Acid</td>
<td>Repr.Cat.2; R60-61</td>
<td>No information</td>
<td>S53 S45</td>
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</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**
T - Toxic

16. OTHER INFORMATION

Product code: B1133
Product name: BORIC ACID, GRANULAR, TECHNICAL
Disclaimer:

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End of Safety Data Sheet