1. IDENTIFICATION

Product Identifier
Product Name
Garage & Driveway Cleaner – Off-white/Light-gray Granular Powder

Other means of identification
SDS #
RD-0011

UN/ID No
UN3253

Product Code
0271 Series

Recommended use of the chemical and restrictions on use
Recommended Use
To be mixed w/ water & used to clean garage floors & driveways.

Details of the supplier of the safety data sheet
Supplier Address
Red Devil, Inc.
4175 Webb Street
Pryor, Oklahoma 74361
www.reddevil.com

Emergency Telephone Number
Company Phone Number
918-825-5744
Fax: 918-825-5761

Emergency Telephone (24 hr)
INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance
Off-white/Light-gray

Physical State
Solid, granular powder

Odor
Odorless to slight musty odor

Classification

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Oral</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 1 Sub-category C</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

Signal Word
Danger

Hazard Statements
Harmful if swallowed
Causes severe skin burns and eye damage
May cause respiratory irritation
Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area

Precautionary Statements - Response
Immediately call a POISON CENTER or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON CENTER or doctor/physician
Rinse mouth
Do not induce vomiting
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium metasilicate pentahydrate</td>
<td>10213-79-3</td>
<td>&lt;80</td>
</tr>
<tr>
<td>Non-hazardous Ingredients</td>
<td>Proprietary</td>
<td>&lt;20</td>
</tr>
<tr>
<td>Sodium pyrophosphate</td>
<td>7722-88-5</td>
<td>&lt;2</td>
</tr>
<tr>
<td>Sodium dodecyl benzene sulphonate</td>
<td>25155-30-0</td>
<td>&lt;2</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>57-55-6</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

4. FIRST-AID MEASURES

First Aid Measures

General Advice
Provide this SDS to medical personnel for treatment.

Eye Contact
Immediately flush w/ large quantities of water for @ least 15 minutes. Get medical attention immediately.
**Skin Contact**

In case of contact, immediately wash w/ soap & water for @ least 20 minutes while removing contaminated clothing & shoes. Get medical attention immediately. Wash clothing & clean shoes before reuse.

**Inhalation**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen & get medical attention immediately.

**Ingestion**

Do not induce vomiting, unless directed by medical personnel. Have victim rinse mouth thoroughly w/ water, if conscious. Never give anything by mouth to a victim who is unconscious. Contact a physician or poison control center immediately.

---

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

**Notes to Physician**

Treat symptomatically & supportively. Medical Conditions Aggravated By Exposure: Persons w/ pre-existing kidney disorders may also be more susceptible to the effects of this product.

---

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

Not determined.

**Specific Hazards Arising from the Chemical**

Product is not flammable or combustible.

Unusual Fire Hazards: Product is corrosive & presents a severe inhalation & contact hazard to firefighters. When involved in a fire, material may decompose & produce corrosive &/or toxic gases. Contact w/ common metals may generate flammable hydrogen gas – dilution w/ water will release heat.

**Hazardous Combustion Products**

Toxic gases may be formed by fire.

---

**6. ACCIDENTAL RELEASE MEASURES**

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

**Personal Precautions**

Wear protective clothing as described in Section 8 of this safety data sheet.

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

**Methods for Containment**

Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up**

Vacuum or sweep up material & place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation.
7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling
Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. While handling product keep out of reach of children and pets. Wash face, hands, and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse. Use only in well-ventilated areas. Minimize dust generation and accumulation. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Close container after each use & keep tightly closed when not in use. To maximize shelf life, store @ temperatures below 26°C (80°F). Store locked up.

Incompatible Materials
Acids. Fluorine. Most common metals; see reactivity in section 10.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Appropriate engineering controls

Engineering Controls
Facilities storing or utilizing this material should be equipped w/ eyewashes & safety showers. Use w/ adequate ventilation to keep airborne concentrations low & ensure exposure levels maintained below limits provided.

Individual protection measures, such as personal protective equipment

Eye/Face Protection
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA’s eye & face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and Body Protection

Body/Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respiratory Protection
Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. If necessary, refer to OSHA Technical Manual (Sec. VII: Personal Protective Equipment)or appropriate Standards of Canada. Use foot protection, as described in appropriate regulations & standards

Respiratory: If mists or sprays are created, use appropriate respiratory protection. Oxygen levels below 19.5% considered IDLH by OSHA. In such instances, use full-face piece pressure demand SCBA or a full face piece, supplied air respirator w/ auxiliary self-contained air supply.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice.
### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Solid, granular powder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Off-white/Light-gray</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Off-white/Light-gray</td>
<td>Odor</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless to slight musty odor</td>
<td>Odor Threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>&gt;12.5 (1% solution)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>~ 73 °C / 163.4 °F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>Not available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not Flammable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not determined</td>
<td></td>
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<tr>
<td>Flammability (Solid, Gas)</td>
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</tr>
<tr>
<td>Upper Flammability Limits</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>Unknown</td>
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</tr>
<tr>
<td>Vapor Pressure</td>
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<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>~1.75 @25°C (77°F)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Soluble in water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Not applicable</td>
<td></td>
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</tr>
<tr>
<td>Decomposition Temperature</td>
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<td></td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
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<td></td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
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<td></td>
</tr>
<tr>
<td>Explosive Properties</td>
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<td></td>
</tr>
<tr>
<td>Oxidizing Properties</td>
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<td></td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>~212</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>0%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

**Reactivity**
Not reactive under normal conditions. Flammable hydrogen gas may be produced on prolonged contact w/ materials such as aluminum, tin, lead & zinc.

**Chemical Stability**
Stable under recommended storage conditions. Stable under normal conditions. If exposed to moisture, material will cake.

**Possibility of Hazardous Reactions**
None under normal processing.

**Hazardous Polymerization**
Has not been reported.

**Conditions to Avoid**
Avoid generation of dust, high temperatures, moisture & incompatible materials.

**Incompatible Materials**
Acids. Fluorine. Most common metals; see reactivity in section 10.

**Hazardous Decomposition Products**
Sodium oxide fumes. Sodium Metasilicate solutions, when heated or acidified, are hydrolyzed to free sodium ions & silicic acid.
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact
Causes severe eye damage.

Skin Contact
Causes severe skin burns.

Inhalation
May cause irritation to the mucous membranes and upper respiratory tract.

Ingestion
Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium metasilicate pentahydrate 10213-79-3</td>
<td>847 mg/Kg (rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Sodium pyrophosphate 7722-88-5</td>
<td>&gt; 2000 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Sodium dodecyl benzene sulphonate 25155-30-0</td>
<td>= 438 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Propylene Glycol 57-55-6</td>
<td>= 20000 mg/kg (Rat)</td>
<td>= 20800 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
</tbody>
</table>

Information on physical, chemical and toxicological effects

Symptoms
Please see section 4 of this SDS for symptoms.

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

Germ cell mutagenicity
No information available.

Carcinogenicity
This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Teratogenicity
No information available.

STOT - single exposure
May cause respiratory irritation.

Chronic toxicity
Long term skin overexposure to product may lead to dermatitis & eczema. Prolonged or repeated eye contact may cause conjunctivitis & possibly corneal abnormalities. Chronic overexposure to product may cause kidney damage.

Neurological effects
Has not been identified.

Other Adverse Effects
Clinical studies on test animals exposed to relatively high doses of sodium metasilicate provided reproductive toxicity data. Persons w/ pre-existing kidney disorders may also be more susceptible to the effects of product.

Numerical measures of toxicity
Not determined
12. ECOLOGICAL INFORMATION

Ecotoxicity
PRACTICES SHOULD BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.
General Product Information: Harmful to aquatic life in low concentrations. Sodium Metasilicate Pentahydrate is toxic to fish &
marine organisms when applied to streams, rivers, ponds or lakes, however neutralization w/ dilute acid prior to release to aquatic
environment to reduce alkalinity, renders it essentially non-toxic.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium dodecyl benzene sulphonate</td>
<td>10.8: 96 h Oncorhynchus mykiss mg/L LC50 static</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25155-30-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>51600: 96 h Oncorhynchus mykiss mg/L LC50 static 41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static 51400: 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>57-55-6</td>
<td>19000: 96 h Pseudokirchneriella subcapitata mg/L EC50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10000: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50 Static</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Persistence/Degradability
2. Environmental Fate: (Sodium Metasilicate) (Soluble): There is limited information available on the environmental fate &
effects of material, if released to the environment. Sodium Metasilicate has exhibited moderate to high toxicity to aquatic organisms
& moderate toxicity to terrestrial organisms. Sodium Metasilicate will persist in aquatic & terrestrial systems. Significant releases
could have an adverse impact on the pH of an aquatic system. As alkalinity of material neutralizes, it will be reduced to silica. The
solubility of silica is such that it will eventually be transported by ground waters

Bioaccumulation
Not determined

Mobility
Not determined

Other Adverse Effects
Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes
All wastes must be handled in accordance w/ local, state & federal regulations. Material can be converted to a less hazardous material by neutralization w/ dilute acid, if it complies w/ applicable regulations.
Any waste solution w/ a pH of 12.5 or above is a RCRA hazardous waste.

Contaminated Packaging
Disposal should be in accordance with applicable regional, national and local laws and regulations.

US EPA Waste Number
D002
### 14. TRANSPORT INFORMATION

**Note:** Shipping Class information is intended as a guide to the overall classification of the product. Classification may be subject to change w/ changes in package size. Consult requirements under 49 CFR, IATA & IMDG for regulatory compliance, specifically related to Limited Quantity, Small Quantities and De minimis Exceptions. Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

<table>
<thead>
<tr>
<th>DOT</th>
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<tbody>
<tr>
<td>UN/ID No</td>
<td>UN3253</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>Disodium trioxosilicate</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>8</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>Reportable Quantity (RQ)</td>
<td>100 lbs</td>
</tr>
<tr>
<td>Special Provisions</td>
<td>IB8, IP3</td>
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</table>

<table>
<thead>
<tr>
<th>IATA</th>
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</thead>
<tbody>
<tr>
<td>UN/ID No</td>
<td>UN3253</td>
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<tr>
<td>Proper Shipping Name</td>
<td>Disodium trioxosilicate</td>
</tr>
<tr>
<td>Hazard Class</td>
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<tr>
<td>Packing Group</td>
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<td>ERG Code</td>
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<td>Special Provisions</td>
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<table>
<thead>
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<td>Disodium trioxosilicate</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>8</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>EmS-No</td>
<td>F-A, S-M</td>
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<tr>
<td>Special Provisions</td>
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</tr>
</tbody>
</table>

### 15. REGULATORY INFORMATION

**International Inventories**

<table>
<thead>
<tr>
<th>TSCA</th>
<th>Not Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSL</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

**Legend:**

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

<table>
<thead>
<tr>
<th>CERCLA</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>Hazardous Substances RQs</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------</td>
</tr>
</tbody>
</table>

- **CERCLA** - Chemical Name
- **Hazardous Substances RQs**
- **CERCLA/SARA RQ**
- **Reportable Quantity (RQ)**
Sodium dodecyl benzene sulphonate  
25155-30-0  

RQ 1000 lb final RQ  
RQ 454 kg final RQ

SARA 311/312 Hazard Categories

Acute Health Hazard  
Yes
Chronic Health Hazard  
Yes

SARA 313  
Not determined

CWA (Clean Water Act)

<table>
<thead>
<tr>
<th>Component</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
</table>
| Sodium dodecyl benzene sulphonate  
25155-30-0 ( <2 ) | 1000 lb | | | X |

US State Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
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</table>
| Sodium pyrophosphate  
7722-88-5 | X | X | X |
| Sodium dodecyl benzene sulphonate  
25155-30-0 | X | X | X |
| Propylene Glycol  
57-55-6 | X | | X |

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Not determined</td>
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</tbody>
</table>

Issue Date  
19-Aug-2013
Revision Date:  
25-Sep-2013
Revision Note  
New format

Disclaimer

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.

End of Safety Data Sheet