1. Identification

Product identifier used on the label

MasterSeal SL 1 lst 12PK also SL1 LST

Recommended use of the chemical and restriction on use
Recommended use*: for industrial and professional users

* The “Recommended use” identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Chemical family: sealant

2. Hazards Identification


Classification of the product

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>4</td>
<td>2</td>
<td>2A</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>1B</td>
<td>1B</td>
</tr>
</tbody>
</table>

- Flammable liquids
- Acute toxicity
- Skin corrosion/irritation
- Serious eye damage/eye irritation
- Respiratory sensitization
- Skin sensitization
- Carcinogenicity
- Reproductive toxicity
- Reproductive toxicity
STOT RE 1 Specific target organ toxicity — repeated exposure

Label elements

Pictogram:

Signal Word:
Danger

Hazard Statement:
H227  Combustible liquid.
H332  Harmful if inhaled.
H319  Causes serious eye irritation.
H315  Causes skin irritation.
H334  May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317  May cause an allergic skin reaction.
H351  Suspected of causing cancer.
H360  May damage fertility. May damage the unborn child.
H372  Causes damage to organs (Central nervous system) through prolonged or repeated exposure.

Precautionary Statements (Prevention):
P280  Wear protective gloves/protective clothing/eye protection/face protection.
P271  Use only outdoors or in a well-ventilated area.
P260  Do not breathe dust/gas/mist/vapours.
P201  Obtain special instructions before use.
P261  Avoid breathing vapours.
P210  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P202  Do not handle until all safety precautions have been read and understood.
P284  [In case of inadequate ventilation] wear respiratory protection.
P270  Do not eat, drink or smoke when using this product.
P264  Wash with plenty of water and soap thoroughly after handling.
P272  Contaminated work clothing should not be allowed out of the workplace.

Precautionary Statements (Response):
P312  Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340  IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314  Get medical advice/attention if you feel unwell.
P308 + P311  IF exposed or concerned: Call a POISON CENTER or doctor/physician.
P303 + P352  IF ON SKIN (or hair): Wash with plenty of soap and water.
P333 + P311  If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician.
P332 + P313  If skin irritation occurs: Get medical advice/attention.
P362 + P364  Take off contaminated clothing and wash before reuse.
P337 + P311  If eye irritation persists: Call a POISON CENTER or doctor/physician.
P370 + P378  In case of fire: Use... to extinguish.
Precautionary Statements (Storage):
P405  Store locked up.
P403 + P235  Store in a well-ventilated place. Keep cool.

Precautionary Statements (Disposal):
P501  Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Labeling of special preparations (GHS):
SENSITIZATION CAN OCCUR IN SOME INDIVIDUALS, LEADING TO ASTHMA-LIKE SPASMS OF THE BRONCHIAL TUBES AND DIFFICULTY BREATHING. INDIVIDUALS WITH A HISTORY OF RESPIRATORY ILLNESS, ASTHMATIC CONDITIONS, EYE DAMAGE OR TDI SENSITIZATION SHOULD NOT BE EXPOSED TO THIS PRODUCT. TDI IS INCLUDED IN THE NTP ANNUAL REPORT ON CARCINOGENS. RESULTS FROM A TDI HEALTH STUDY INDICATE THAT OVEREXPOSURE TO A RESPIRATORY IRRITANT, RESULTING IN LOWER RESPIRATORY TRACT SYMPTOMS COULD INCREASE THE RISKS OF DEVELOPING ASTHMA-LIKE REACTIONS FROM SUBSEQUENT TDI EXPOSURE. ANIMAL TESTS AND OTHER RESEARCH INDICATE THAT SKIN CONTACT WITH MDI MAY PLAY A ROLE IN CAUSING RESPIRATORY SENSITIZATION.


Emergency overview

WARNING:
SENSITIZATION CAN OCCUR IN SOME INDIVIDUALS, LEADING TO ASTHMA-LIKE SPASMS OF THE BRONCHIAL TUBES AND DIFFICULTY BREATHING. INDIVIDUALS WITH A HISTORY OF RESPIRATORY ILLNESS, ASTHMATIC CONDITIONS, EYE DAMAGE OR TDI SENSITIZATION SHOULD NOT BE EXPOSED TO THIS PRODUCT. TDI IS INCLUDED IN THE NTP ANNUAL REPORT ON CARCINOGENS. RESULTS FROM A TDI HEALTH STUDY INDICATE THAT OVEREXPOSURE TO A RESPIRATORY IRRITANT, RESULTING IN LOWER RESPIRATORY TRACT SYMPTOMS COULD INCREASE THE RISKS OF DEVELOPING ASTHMA-LIKE REACTIONS FROM SUBSEQUENT TDI EXPOSURE. Irritating to eyes, respiratory system and skin. CONTAINS MATERIAL WHICH MAY CAUSE CANCER. Avoid contact with the skin, eyes and clothing.

3. Composition / Information on Ingredients


<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Weight %</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1317-65-3</td>
<td>&gt; 10.0 - &lt; 50.0%</td>
<td>Limestone</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>&gt;= 3.0 - &lt; 15.0%</td>
<td>Titanium dioxide</td>
</tr>
<tr>
<td>14807-96-6</td>
<td>&gt;= 3.0 - &lt; 15.0%</td>
<td>talc</td>
</tr>
<tr>
<td>8052-41-3</td>
<td>&gt;= 1.0 - &lt; 5.0%</td>
<td>Stoddard solvent</td>
</tr>
<tr>
<td>91-08-7</td>
<td>&gt;= 0.3 - &lt; 1.0%</td>
<td>toluene-2,6-diisocyanate</td>
</tr>
<tr>
<td>2530-83-8</td>
<td>&gt;= 0.3 - &lt; 1.0%</td>
<td>trimethoxy[3-(oxiranylmethoxy)propyl]silane</td>
</tr>
<tr>
<td>149-57-5</td>
<td>&gt;= 0.0 - &lt; 0.3%</td>
<td>2-ethylhexanoic acid</td>
</tr>
<tr>
<td>77-58-7</td>
<td>&gt;= 0.0 - &lt; 0.2%</td>
<td>dibutyltin dilaurate</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>&gt;= 0.0 - &lt; 0.2%</td>
<td>crystalline silica</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Weight %</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1317-65-3</td>
<td>10.0 - 30.0%</td>
<td>Limestone</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>3.0 - 7.0%</td>
<td>Titanium dioxide</td>
</tr>
<tr>
<td>14807-96-6</td>
<td>3.0 - 7.0%</td>
<td>talc</td>
</tr>
<tr>
<td>53306-54-0</td>
<td>1.0 - 5.0%</td>
<td>bis(2-propylheptyl) phthalate</td>
</tr>
<tr>
<td>8052-41-3</td>
<td>1.0 - 5.0%</td>
<td>Stoddard solvent</td>
</tr>
<tr>
<td>91-08-7</td>
<td>0.1 - 1.0%</td>
<td>toluene-2,6-diisocyanate</td>
</tr>
</tbody>
</table>

4. First-Aid Measures

**Description of first aid measures**

**General advice:**
First aid personnel should pay attention to their own safety. Remove contaminated clothing.

**If inhaled:**
No applicable information available.

**If on skin:**
Wash thoroughly with soap and water. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

**If in eyes:**
Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

**If swallowed:**
Rinse mouth and then drink plenty of water. Do not induce vomiting unless told to by a poison control center or doctor.

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

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.
Hazards: No applicable information available.

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

**Note to physician**
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

**Extinguishing media**

Suitable extinguishing media:
foam, water spray, dry powder, carbon dioxide
Unsuitable extinguishing media for safety reasons:
water jet

**Special hazards arising from the substance or mixture**
Hazard during fire-fighting:
carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

**Advice for fire-fighters**
Protective equipment for fire-fighting:
Wear a self-contained breathing apparatus.

**Further information:**
The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

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### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

**Environmental precautions**
Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

**Methods and material for containment and cleaning up**
For small amounts: Sweep/shovel up. Dispose of absorbed material in accordance with regulations.
For large amounts: Sweep/shovel up. Dispose of absorbed material in accordance with regulations.

---

### 7. Handling and Storage

**Precautions for safe handling**
Avoid contact with the skin, eyes and clothing.

Protection against fire and explosion:
Keep away from sources of ignition - No smoking. The relevant fire protection measures should be noted.

**Conditions for safe storage, including any incompatibilities**
No applicable information available.

Further information on storage conditions: Keep only in the original container in a cool, well-ventilated place. Protect from direct sunlight. Store protected against freezing.

---

### 8. Exposure Controls/Personal Protection

**Components with occupational exposure limits**
dibutyltin dilaurate

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>PEL</th>
<th>TWA value</th>
</tr>
</thead>
<tbody>
<tr>
<td>dibutyltin dilaurate</td>
<td></td>
<td>0.1</td>
<td>0.1 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(tin (Sn));</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.1 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(tin (Sn));</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SKIN_FINAL (tin (Sn));</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>The substance can be absorbed through the skin.</td>
</tr>
</tbody>
</table>
toluene-2,6-diisocyanate
ACGIH TLV  TWA value  0.1 mg/m³ (tin (Sn)); STEL value 0.2 mg/m³ (tin (Sn)); Skin Designation (tin (Sn));
The substance can be absorbed through the skin.

2-ethylhexanoic acid
ACGIH TLV  TWA value  5 mg/m³ Inhalable fraction and vapor ;

Limestone
OSHA PEL  PEL  5 mg/m³ Respirable fraction ; PEL 15 mg/m³ Total dust ; TWA value  15 mg/m³ Total dust ; TWA value  5 mg/m³ Respirable fraction ;

Titanium dioxide
OSHA PEL  PEL  15 mg/m³ Total dust ; TWA value  10 mg/m³ Total dust ;
ACGIH TLV  TWA value  10 mg/m³ ;
Safety Data Sheet
MasterSeal SL 1 lst 12PK also SL1 LST

Revision date: 2015/07/08
Version: 3.1

Page: 7/13

<table>
<thead>
<tr>
<th>Substance</th>
<th>OSHA PEL</th>
<th>TWA value (millions of particles per cubic foot of air)</th>
<th>Derivation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc</td>
<td></td>
<td>20 &amp; 2.4</td>
<td>250/(%\text{SiO}_2 + 5), using 100% SiO2. Lower percentages yield higher exposure limits.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.1 mg/m³ Respirable</td>
<td>10/(%\text{SiO}_2 + 2), using 100% SiO2. Lower percentages yield higher exposure limits.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.3 mg/m³ Total dust</td>
<td>30/(%\text{SiO}_2 + 2), using 100% SiO2. Lower percentages yield higher exposure limits.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 mg/m³ Respirable dust</td>
<td>2.4 millions of particles per cubic foot of air.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.3 mg/m³ Total dust</td>
<td>0.1 mg/m³ Respirable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.4 millions of particles per cubic foot of air</td>
<td>2 mg/m³ Respirable dust</td>
</tr>
<tr>
<td>Stoddard solvent</td>
<td>OSHA PEL</td>
<td>500 ppm</td>
<td>2,900 mg/m³</td>
</tr>
<tr>
<td></td>
<td>ACGIH TLV</td>
<td>TWA value 100 ppm</td>
<td>TWA value 100 ppm</td>
</tr>
</tbody>
</table>

**OSHA PEL**

**ACGIH TLV**

**Advice on system design:**
Provide adequate exhaust ventilation to control workplace concentrations.

**Personal protective equipment**

**Respiratory protection:**
Wear appropriate certified respirator when exposure limits may be exceeded.

**Hand protection:**
Chemical resistant protective gloves

**Eye protection:**
Safety glasses with side-shields.
Body protection:
Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:
Avoid contact with the skin, eyes and clothing. No special measures necessary if stored and handled correctly. Handle in accordance with good building materials hygiene and safety practice. Wearing of closed work clothing is recommended. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

9. Physical and Chemical Properties

Form: paste
Odour: slight odour
Odour threshold: No applicable information available.
Colour: pigmented
pH value: not applicable
Melting point: No applicable information available.
Boiling point: not applicable
Sublimation point: No applicable information available.
Flash point: 81.5 °C (ASTM D3278)
178.7 °F
Flammability: not flammable (UN Test N.1 (ready combustible solids))

Lower explosion limit: No applicable information available.
Upper explosion limit: No applicable information available.
Autoignition: not applicable
Vapour pressure: No applicable information available.
Density: approx. 1.15 g/cm³ (20 °C)
Relative density: No applicable information available.
Vapour density: No applicable information available.
Partitioning coefficient n-octanol/water (log Pow):
Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic: No applicable information available.
Viscosity, kinematic: No applicable information available.
Solubility in water: (15 °C)
insoluble
Miscibility with water: (20 °C)
not (e.g. <10%)
Solubility (quantitative): No applicable information available.
Solubility (qualitative): No applicable information available.
Evaporation rate: No applicable information available.
Other Information: If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:
not fire-propagating

**Chemical stability**
The product is stable if stored and handled as prescribed/indicated.

**Possibility of hazardous reactions**
The product is stable if stored and handled as prescribed/indicated.

**Conditions to avoid**
See MSDS section 7 - Handling and storage.

**Incompatible materials**
strong acids, strong bases, strong oxidizing agents, strong reducing agents

**Hazardous decomposition products**

Decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:
No decomposition if stored and handled as prescribed/indicated.

---

11. **Toxicological information**

**Primary routes of exposure**

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

**Acute Toxicity/Effects**

**Acute toxicity**
Assessment of acute toxicity: Harmful by inhalation.

**Oral**
No applicable information available.

**Inhalation**
Type of value: ATE
Value: 16.79 mg/l

*Information on: toluene-2,6-diisocyanate*
Type of value: LC50
Species: mouse
Value: 0.07 mg/l
Exposure time: 4 h
The vapour was tested.

**Dermal**
No applicable information available.

**Assessment other acute effects**
No applicable information available.

**Irritation / corrosion**
Assessment of irritating effects: Eye contact causes irritation.

Sensitization
Assessment of sensitization: Sensitization after skin contact possible. The substance may cause sensitization of the respiratory tract.

Chronic Toxicity/Effects

Repeated dose toxicity
Assessment of repeated dose toxicity: Prolonged exposure may cause chronic effects.

Genetic toxicity
Assessment of mutagenicity: The substance was mutagenic in various bacterial test systems; however, a mutagenic effect could not be confirmed in mammalian cell culture.

Carcinogenicity
Assessment of carcinogenicity: Contains a compound classified as IARC Group 2B (possibly carcinogenic to humans).

Information on: Titanium dioxide
Assessment of carcinogenicity: IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). In long-term studies in rats in which the substance was given by inhalation, a carcinogetic effect was observed. Tumors were only observed in rats after chronic inhalative exposure to high concentrations which caused sustained lung inflammation. In long-term studies in rats and mice in which the substance was given by feed, a carcinogetic effect was not observed. Dermal exposure is not expected to be carcinogetic.

Information on: crystalline silica
Assessment of carcinogenicity: In long-term studies in rats and mice in which the substance was given by feed, a carcinogetic effect was not observed. In long-term animal studies in which the substance was given by inhalation in high doses, a carcinogetic effect was observed. The substance and its compounds in the form of respirable dusts/aerosolisis classified by the German MAK commision as a category 1 carcinogetic (substances that cause cancer to humans). A carcinogetic effect cannot safely be ruled out. The inhalation uptake of the alveolar fraction of the fine dust may cause damage to the lungs. The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known) human carcinogen. NTP listed carcinogen

Information on: toluene-2,6-diisocyanate
Assessment of carcinogenicity: IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

Reproductive toxicity
Assessment of reproduction toxicity: Contains a reproductive toxin.

Teratogenicity
Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Other Information
Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.
12. Ecological Information

**Toxicity**

Aquatic toxicity
Assessment of aquatic toxicity:
Based on available Data, the classification criteria are not met.

**Persistence and degradability**

Assessment biodegradation and elimination (H2O)
Poorly biodegradable.
The product is unstable in water. The elimination data also refer to products of hydrolysis.

Assessment biodegradation and elimination (H2O)

*Information on: TDI*

Poorly biodegradable. The product is unstable in water. The elimination data also refer to products of hydrolysis.

**Mobility in soil**

Assessment transport between environmental compartments
Adsorption to solid soil phase is not expected.

**Additional information**

Other ecotoxicological advice:
Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

13. Disposal considerations

**Waste disposal of substance:**
Dispose of in accordance with local authority regulations. Do not discharge into drains/surface waters/groundwater.

14. Transport Information

**Land transport**
USDOT

Classified as combustible liquid in containers greater than 119 gallons.

**Sea transport**
IMDG
15. Regulatory Information

Federal Regulations

Registration status:
Chemical TSCA, US released / listed

TSCA § 5 proposed Significant New Use Restriction (SNUR)
This product contains a substance subject to a pending SNUR.
40 CFR 721.10789

EPCRA 311/312 (Hazard categories): Acute; Chronic; Fire

CERCLA RQ | CAS Number | Chemical name
------------|------------|-----------------
5000 LBS    | 7664-38-2; 101-68-8 | phosphoric acid; Diphenylmethane-4,4’-diisocyanate (MDI)
1000 LBS    | 108-88-3 | Toluene
100 LBS     | 75-35-4; 107-13-1; 108-90-7; 75-28-5; 584-84-9; 91-08-7 | 1,1-dichloroethylene; acrylonitrile; chlorobenzene; Propane, 2-methyl-; toluene-2,4-diisocyanate; toluene-2,6-diisocyanate

State regulations

State RTK | CAS Number | Chemical name
-----------|------------|-----------------
PA          | 13463-67-7 | Titanium dioxide
           | 1317-65-3 | Limestone
           | 584-84-9 | toluene-2,4-diisocyanate
           | 91-08-7 | toluene-2,6-diisocyanate
           | 14807-96-6 | talc
           | 53306-54-0 | bis(2-propylheptyl) phthalate
           | 8052-41-3 | Stoddard solvent
MA          | 1317-65-3 | Limestone
           | 584-84-9 | toluene-2,4-diisocyanate
           | 91-08-7 | toluene-2,6-diisocyanate
           | 14807-96-6 | talc
           | 13463-67-7 | Titanium dioxide
           | 8052-41-3 | Stoddard solvent
NJ          | 13463-67-7 | Titanium dioxide
           | 14807-96-6 | talc
           | 53306-54-0 | bis(2-propylheptyl) phthalate
           | 8052-41-3 | Stoddard solvent
           | 1317-65-3 | Limestone
           | 584-84-9 | toluene-2,4-diisocyanate
           | 91-08-7 | toluene-2,6-diisocyanate

CA Prop. 65:
WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.
16. Other Information

SDS Prepared by:
BASF NA Product Regulations
SDS Prepared on: 2015/07/08

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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END OF DATA SHEET