1. Identification

Product identifier used on the label

MasterSeal TC 225HT cha gry also SONOGUARD TOP COAT HT CHAR GRY

Recommended use of the chemical and restriction on use

* 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

2. Hazards Identification


Classification of the product

<table>
<thead>
<tr>
<th>Classification</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquids</td>
<td>3</td>
<td>Flammable liquids</td>
</tr>
<tr>
<td>Acute toxicity</td>
<td>4</td>
<td>(Inhalation - mist)</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>2</td>
<td>Skin corrosion/irritation</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>2A</td>
<td></td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>1B</td>
<td>(fertility)</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>1B</td>
<td>(unborn child)</td>
</tr>
</tbody>
</table>
STOT RE 1 Specific target organ toxicity — repeated exposure
Aquatic Acute 3 Hazardous to the aquatic environment - acute
Aquatic Chronic 3 Hazardous to the aquatic environment - chronic

Label elements

Pictogram:

Signal Word:
Danger

Hazard Statement:
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H372 Causes damage to organs (Central nervous system) through prolonged or repeated exposure.
H360 May damage fertility. May damage the unborn child.
H402 Harmful to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

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.
P261 Avoid breathing mist.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 Avoid release to the environment.
P201 Obtain special instructions before use.
P243 Take precautionary measures against static discharge.
P284 [In case of inadequate ventilation] wear respiratory protection.
P202 Do not handle until all safety precautions have been read and understood.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P264 Wash with plenty of water and soap thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P233 Keep container tightly closed.
P242 Use only non-sparking tools.
P240 Ground/bond container and receiving equipment.

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.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P333 + P311 If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician.
P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.
P333 + P311 If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician.
P308 + P311 If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician.
P333 + P311 If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician.
P337 + P311 If eye irritation persists: Call a POISON CENTER or doctor/physician.
P370 + P378 In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.

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.

3. Composition / Information on Ingredients


<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Weight %</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>8052-41-3</td>
<td>&gt;= 20.0 - &lt; 25.0%</td>
<td>Stoddard solvent</td>
</tr>
<tr>
<td>5124-30-1</td>
<td>&gt;= 10.0 - &lt; 15.0%</td>
<td>4,4'-methylenedicyclohexyl diisoncyanate</td>
</tr>
<tr>
<td>77-58-7</td>
<td>&gt;= 0.3 - &lt; 1.0%</td>
<td>dibutyltin dilaurate</td>
</tr>
<tr>
<td>41556-26-7</td>
<td>&gt;= 0.3 - &lt; 1.0%</td>
<td>bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate</td>
</tr>
<tr>
<td>82919-37-7</td>
<td>&gt;= 0.0 - &lt; 0.2%</td>
<td>Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Weight %</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>8052-41-3</td>
<td>&gt;= 15.0 - &lt;= 40.0%</td>
<td>Stoddard solvent</td>
</tr>
<tr>
<td>5124-30-1</td>
<td>&gt;= 10.0 - &lt;= 30.0%</td>
<td>4,4'-methylenedicyclohexyl diisoncyanate</td>
</tr>
<tr>
<td>14807-96-6</td>
<td>&gt;= 7.0 - &lt;= 13.0%</td>
<td>talc</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>&gt;= 3.0 - &lt;= 7.0%</td>
<td>Titanium dioxide</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>&gt;= 0.5 - &lt;= 1.5%</td>
<td>Proprietary polymer 23EB</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>&gt;= 0.1 - &lt;= 1.0%</td>
<td>carbon black</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:
Remove victim to fresh air and away from exposure immediately. If not breathing, give artificial respiration. Seek medical attention.

If on skin:
After contact with skin, wash immediately with plenty of water and soap. 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:
Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting unless told to by a poison control center or doctor. If person is conscious and can swallow, give two glasses of water.

Most important symptoms and effects, both acute and delayed

Symptoms: dizziness, sickness, Eye irritation, skin irritation, irritation to the lungs, allergic symptoms
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
Hazards during fire-fighting:
carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

Advice for fire-fighters
Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Use personal protective clothing. Do not breathe vapour/aerosol/spray mists. 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: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.
For large amounts: Pump off product.

7. Handling and Storage

Precautions for safe handling
Avoid contact with the skin, eyes and clothing. Ensure thorough ventilation of stores and work areas.

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

Suitable materials for containers: tinned carbon steel (Tinplate)

Further information on storage conditions: Keep only in the original container in a cool, well-ventilated place. Protect from direct sunlight.
Protect from temperatures below: 0 °C
The packed product must be protected from temperatures below the indicated one.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>dibutyltin dilaurate</td>
<td>PEL 0.1 mg/m³ (tin (Sn)); TWA value 0.1 mg/m³ (tin (Sn)); SKIN_FINAL (tin (Sn)); The substance can be absorbed through the skin.</td>
<td>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.</td>
</tr>
<tr>
<td>4,4’-methylenedicyclohexyl diison cyanate</td>
<td>OSHA PEL CLV 0.01 ppm 0.11 mg/m³ ;</td>
<td>ACGIH TLV TWA value 0.005 ppm ;</td>
</tr>
<tr>
<td>Chemical</td>
<td>OSHA PEL</td>
<td>ACGIH TLV</td>
</tr>
<tr>
<td>-------------------</td>
<td>----------</td>
<td>-----------</td>
</tr>
<tr>
<td>Calcium sulphate</td>
<td>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 ;</td>
<td>TWA value 10 mg/m³ Inhalable fraction ;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>PEL 15 mg/m³ Total dust ; TWA value 10 mg/m³ Total dust ;</td>
<td>TWA value 10 mg/m³ ;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Talc</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stoddard solvent</td>
<td>PEL 500 ppm 2,900 mg/m³ ;</td>
<td>TWA value 100 ppm ;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The exposure limit is calculated from the equation, 250/(%SiO₂+5), using a value of 100% SiO₂. Lower percentages of SiO₂ will yield higher exposure limits.

TWA value 0.1 mg/m³ Respirable ;
The exposure limit is calculated from the equation, 10/(%SiO₂+2), using a value of 100% SiO₂. Lower percentages of SiO₂ will yield higher exposure limits.

TWA value 0.3 mg/m³ Total dust ;
The exposure limit is calculated from the equation, 30/(%SiO₂+2), using a value of 100% SiO₂. Lower percentages of SiO₂ will yield higher exposure limits.

The value is for particulate matter containing no asbestos and <1% crystalline silica.
Advice on system design:
No applicable information available.

Personal protective equipment

Respiratory protection:
Wear a NIOSH-certified (or equivalent) respirator as necessary.

Hand protection:
Wear chemical resistant protective gloves. Manufacturer’s directions for use should be observed because of great diversity of types.

Eye protection:
Safety glasses with side-shields.

Body protection:
Impermeable protective clothing

General safety and hygiene measures:
Do not inhale gases/vapours/aerosols. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>solvent-like</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No applicable information available.</td>
</tr>
<tr>
<td>Colour</td>
<td>various colours</td>
</tr>
<tr>
<td>pH value</td>
<td>not applicable</td>
</tr>
<tr>
<td>Melting point</td>
<td>No applicable information available.</td>
</tr>
<tr>
<td>Boiling temperature</td>
<td>approx. 105.56 - 260 °C</td>
</tr>
<tr>
<td>Sublimation point</td>
<td>No applicable information available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>105 °F (ASTM D3278)</td>
</tr>
<tr>
<td>Flammability</td>
<td>Flammable</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>1.0 % (V)</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>7.0 % (V)</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>The product has not been tested.</td>
</tr>
<tr>
<td>Density</td>
<td>approx. 1.12 g/cm³ (20 °C)</td>
</tr>
<tr>
<td>Relative density</td>
<td>No applicable information available.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Heavier than air</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>No decomposition if stored and handled as prescribed/indicated.</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>2,720 cP (40 °C)</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>2,426 mm²/s (40 °C)</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>slightly soluble (20 °C)</td>
</tr>
<tr>
<td>Miscibility with water</td>
<td>slightly soluble (20 °C)</td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

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

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

Incompatible materials
strong acids, strong bases, strong oxidizing 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: Of moderate toxicity after short-term inhalation.

Information on: 4,4'-methylenebiclohexyl diisocyanate
Assessment of acute toxicity: Of high toxicity after short-term inhalation. Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Inhalation of diisocyanates may cause irritation of the mucous membranes of the nose, throat or trachea, breathlessness, chest discomfort, difficult breathing and reduced pulmonary function. High airborne concentrations may result additionally in eye irritation, headache, chemical bronchitis, asthma-like symptoms or pulmonary edema. Isocyanates have also been reported to cause hypersensitivity pneumonitis, which is characterized by flu-like symptoms, the onset of which may be delayed. Symptoms include nausea, vomiting and abdominal pain.
Oral
No applicable information available.

Inhalation
No applicable information available.

Dermal
No applicable information available.

Assessment other acute effects
No applicable information available.

Irritation / corrosion
Assessment of irritating effects: Irritating to eyes, respiratory system and skin.

Information on: 4,4’-methylenebicyclohexyl diisocyanate
Assessment of irritating effects: Irritating to eyes and skin.

Information on: Proprietary polymer 23EB
Assessment of irritating effects: Not irritating to the skin. May cause severe damage to the eyes. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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

Information on: 4,4’-methylenebicyclohexyl diisocyanate
Assessment of sensitization: The substance may cause sensitization of the respiratory tract. Sensitization after skin contact possible.

Aspiration Hazard
May also damage the lung at swallowing (aspiration hazard).

Chronic Toxicity/Effects

Repeated dose toxicity
Assessment of repeated dose toxicity: Repeated exposure to small quantities may affect certain organs.

Information on: 4,4’-methylenebicyclohexyl diisocyanate
Assessment of repeated dose toxicity: Acute or chronic overexposures to isocyanates may cause sensitization in some individuals, resulting in allergic symptoms of the lower respiratory tract (asthma-like), including wheezing, shortness of breath and difficulty breathing. Subsequent reactions may occur at or substantially below the PEL and TLV. Asthma caused by isocyanates may persist in some individuals after removal from exposure and may be irreversible.

Genetic toxicity
Assessment of mutagenicity: The substance was not mutagenic in bacteria.

Carcinogenicity
Assessment of carcinogenicity: The whole of the information assessable provides no indication of a carcinogenic effect. Indication of possible carcinogenic effect in animal tests. However, the relevance of this result for humans is unclear.

**Information on: carbon black**
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 animal studies in which the substance was given by inhalation in high concentrations, a carcinogenic effect was observed. A clear indication of an increased risk of cancer in humans has so far not been shown. No carcinogenic potential can be deduced from other studies with rats and mice.

**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 carcinogenic 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 carcinogenic effect was not observed. Dermal exposure is not expected to be carcinogenic.

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**Reproductive toxicity**
Assessment of reproduction toxicity: Causes impairment of fertility in laboratory animals.

**Teratogenicity**
Assessment of teratogenicity: The substance caused malformations/developmental toxicity in laboratory animals.

**Other Information**
The product has not been tested. The statement has been derived from the properties of the individual components.

**Information on: 4,4’-methylenebicyclohexyl diisocyanate**
**development of pulmonary edema**

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**Symptoms of Exposure**

- dizziness, sickness,
- Eye irritation,
- skin irritation,
- irritation to the lungs,
- allergic symptoms

12. Ecological Information

**Toxicity**

**Aquatic toxicity**
Assessment of aquatic toxicity: Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**Aquatic toxicity**

**Information on: 4,4’-methylenebicyclohexyl diisocyanate**
**Assessment of aquatic toxicity:**
**Acutely toxic for aquatic organisms. Depending on local conditions and existing concentrations, disturbances in the biodegradation process of activated sludge are possible. The product has not been tested. The statement has been derived from the properties of the hydrolysis products.**

---

**Persistence and degradability**

**Assessment biodegradation and elimination (H2O)**
Not readily biodegradable (by OECD criteria).

**Mobility in soil**

**Assessment transport between environmental compartments**
The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is expected.

**Additional information**

Other ecotoxicological advice:
Do not release untreated into natural waters. Do not allow to enter soil, waterways or waste water channels. The product has not been tested. The statement has been derived from the properties of the individual components.

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**13. Disposal considerations**

**Waste disposal of substance:**
Dispose of in accordance with national, state and local regulations.

---

**14. Transport Information**

**Land transport**
**USDOT**
- Hazard class: C
- Packing group: III
- ID number: UN 1263
- Hazard label: CBL
- Proper shipping name: PAINT, COMBUSTIBLE LIQUID
Classification as combustible liquid in containers greater than 119 gallons.

**Sea transport**
**IMDG**
- Hazard class: 3
- Packing group: III
- ID number: UN 1263
- Hazard label: 3
- Marine pollutant: NO
- Proper shipping name: PAINT

**Air transport**
**IATA/ICAO**
- Hazard class: 3
Safety Data Sheet
MasterSeal TC 225HT cha gry also SONOGUARD TOP COAT
HT CHAR GRY

Revision date : 2015/05/20  Page: 12/13
Version: 2.0

Packing group: III
ID number: UN 1263
Hazard label: 3
Proper shipping name: PAINT

15. Regulatory Information

Federal Regulations

Registration status:
Chemical TSCA, US released / listed

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

CERCLA RQ CAS Number Chemical name
5000 LBS  7664-38-2 phosphoric acid
1000 LBS  108-88-3 Toluene

State regulations

State RTK CAS Number Chemical name
PA  13463-67-7 Titanium dioxide
    5124-30-1 4,4’-methylene diclohexyl diisocyanate
    7778-18-9 Calcium sulphate
    1333-86-4 carbon black
    14807-96-6 talc
    8052-41-3 Stoddard solvent
MA  5124-30-1 4,4’-methylene diclohexyl diisocyanate
    7778-18-9 Calcium sulphate
    1333-86-4 carbon black
    14807-96-6 talc
    13463-67-7 Titanium dioxide
    8052-41-3 Stoddard solvent
NJ  13463-67-7 Titanium dioxide
    5124-30-1 4,4’-methylene diclohexyl diisocyanate
    1333-86-4 carbon black
    14807-96-6 talc
    8052-41-3 Stoddard solvent
    7778-18-9 Calcium sulphate

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.

NFPA Hazard codes:
Health : 2  Fire: 2  Reactivity: 0  Special:

16. Other Information

SDS Prepared by:
BASF NA Product Regulations
SDS Prepared on: 2015/05/20
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