SECTION 1. IDENTIFICATION

Product name : RENSHAPE® 5065 US

Manufacturer or supplier's details
Company name of supplier : Huntsman Advanced Materials Americas LLC
Address : P.O. Box 4980
The Woodlands,
TX 77387
United States of America (USA)
Telephone : Non-Emergency: (800) 257-5547
E-mail address of person responsible for the SDS : MSDS@huntsman.com
Emergency telephone number : Chemtrec: (800) 424-9300 or (703) 527-3887

Recommended use of the chemical and restrictions on use
Recommended use : Article

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200
Not a hazardous substance or mixture.

GHS label elements
Not a hazardous substance or mixture.

Other hazards
Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical components</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>limestone</td>
<td>1317-65-3</td>
<td>20 - 30</td>
</tr>
<tr>
<td>Glass, oxide, chemicals</td>
<td>65997-17-3</td>
<td>10 - 20</td>
</tr>
<tr>
<td>quartz (SiO2)</td>
<td>14809-60-7</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.
**If inhaled** : Get medical attention if symptoms occur.

**In case of skin contact** : Get medical attention if symptoms occur.

**In case of eye contact** : Get medical attention if irritation develops and persists.

**If swallowed** : Get medical attention if symptoms occur.

**Most important symptoms and effects, both acute and delayed** : None known.

**Notes to physician** : None known.

### SECTION 5. FIREFIGHTING MEASURES

**Suitable extinguishing media** : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** : High volume water jet

**Specific hazards during firefighting** : No information available.

**Hazardous combustion products** : Carbon oxides

**Specific extinguishing methods** : No data is available on the product itself.

**Further information** : No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for firefighters** : Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures** : Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions** : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

**Methods and materials for keeping in re-usable containers away from food and drink** : Keep in suitable, closed containers for disposal.
SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion: Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

Advice on safe handling: Avoid formation of respirable particles. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Keep in properly labelled containers.

Materials to avoid: For incompatible materials please refer to Section 10 of this SDS.

Further information on storage stability: Stable under normal conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>limestone</td>
<td>1317-65-3</td>
<td>TWA (total dust)</td>
<td>15 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (respirable fraction)</td>
<td>5 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td>quartz (SiO₂)</td>
<td>14808-60-7</td>
<td>TWA (respirable)</td>
<td>10 mg/m³ / % SiO₂ + 2</td>
<td>OSHA Z-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (respirable fraction)</td>
<td>250 mppcf / % SiO₂ + 5</td>
<td>OSHA Z-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Respirable fraction)</td>
<td>0.025 mg/m³ (Silica)</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Respirable dust)</td>
<td>0.05 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
</tbody>
</table>

Personal protective equipment

Respiratory protection: In the case of dust or aerosol formation use respirator with an
Hand protection
Remarks: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection: Eye wash bottle with pure water
Tightly fitting safety goggles

Skin and body protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Hygiene measures: When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: solid

Colour: grey

Odour: No data is available on the product itself.

Odour Threshold: No data is available on the product itself.

pH: No data is available on the product itself.

Freezing point: No data is available on the product itself.

Melting point: No data is available on the product itself.

Boiling point: No data is available on the product itself.

Flash point: Not applicable

Evaporation rate: No data is available on the product itself.

Flammability (solid, gas): No data is available on the product itself.

Flammability (liquids): No data is available on the product itself.

Upper explosion limit / Upper flammability limit: No data is available on the product itself.

Lower explosion limit / Lower flammability limit: No data is available on the product itself.

Vapour pressure: No data is available on the product itself.

Relative vapour density: No data is available on the product itself.
Relative density : 0.77

Density : 0.77 g/cm³

Solubility (es)
  Water solubility : No data is available on the product itself.
  Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-octanol/water : No data is available on the product itself.
Auto-ignition temperature : No data is available on the product itself.
Thermal decomposition : No data is available on the product itself.
Self-Accelerating decomposition temperature (SADT) : No data is available on the product itself.

Viscosity : No data is available on the product itself.
Explosive properties : No data is available on the product itself.
Oxidizing properties : No data is available on the product itself.
Particle size : No data is available on the product itself.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : Dust may form explosive mixture in air.
Conditions to avoid : None known.
Incompatible materials : None known.
Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : No data is available on the product itself.

Acute toxicity

Components:
  limestone:
  Acute oral toxicity Components : LD₅₀ (Rat): 6,450 mg/kg
  Acute inhalation toxicity : No data available
Acute dermal toxicity: No data available

Acute toxicity (other routes of administration): No data available

**Skin corrosion/irritation**

**Components:**
Glass, oxide, chemicals:
Species: Rabbit
Assessment: No skin irritation
Method: OECD Test Guideline 404
Result: Normally reversible injuries

**Serious eye damage/eye irritation**

**Components:**
limestone:
Species: Rabbit
Result: Mechanical irritation of the eyes is possible.
Assessment: No eye irritation

**Respiratory or skin sensitisation**

**Components:**
limestone:
Exposure routes: Skin
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.

Glass, oxide, chemicals:
Exposure routes: Skin
Species: Other
Result: Does not cause skin sensitisation.

Assessment: No data available

**Germ cell mutagenicity**
Genotoxicity in vitro: No data available
Genotoxicity in vivo: No data available

**Carcinogenicity**

**Components:**
quartz (SiO2):
Species: Rat
Application Route: Inhalation
Exposure time: 24 month(s)
Dose: 1 mg/m³
Frequency of Treatment: 6 hour
Result: positive
Target Organs: Lungs

Species: Mouse
Application Route: Inhalation
Exposure time: 24 month(s)
Dose: 1.95 mg/m³
Frequency of Treatment: 8 hour
Result: negative

Components:
quartz (SiO₂):
Carcinogenicity Assessment:

IARC
Group 1: Carcinogenic to humans
quartz (SiO₂)
(Silica dust, crystalline)
Group 2A: Probably carcinogenic to humans
Glass, oxide, chemicals
(glass)

ACGIH
Suspected human carcinogen
quartz (SiO₂)

OSHA
No component of this product present at levels greater than or equal to 0.1% is on OSHA’s list of regulated carcinogens.

NTP
Known to be human carcinogen
quartz (SiO₂)
(Silica, Crystalline (Respirable Size))

Reproductive toxicity
Effects on fertility
: No data available
Effects on foetal development
: No data available
Reproductive toxicity - Assessment
: No data available

STOT - single exposure
No data available

STOT - repeated exposure

Components:
quartz (SiO₂):
Exposure routes: inhalation (dust/mist/fume)
Target Organs: Lungs
Assessment: May cause damage to organs through prolonged or repeated exposure.
Repeated dose toxicity

Components:
Glass, oxide, chemicals:
Species: Rat, male
LOEC: 2.4 mg/m3
Test atmosphere: dust/mist
Exposure time: 2,160 h
Number of exposures: 6 h

Repeated dose toxicity - No data available
Assessment

Aspiration toxicity
No data available

Experience with human exposure
General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution
No data available

Neurological effects
No data available

Further information
Ingestion: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:
Limestone:
Toxicity to fish: LC50: > 56,000 mg/l
Exposure time: 96 h

Glass, oxide, chemicals:
Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 1,000 mg/l
   Exposure time: 96 h
   Test Type: Other guidelines
   Test substance: Fresh water
   Method: OECD Test Guideline 203

Components:
Glass, oxide, chemicals:
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
   Exposure time: 72 h
   Test Type: semi-static test
   Test substance: Fresh water
   Method: OECD Test Guideline 202

Components:
Glass, oxide, chemicals:
Toxicity to algae : EgC50 (Selenostrum capricornutum (green algae)): > 1,000 mg/l
   Exposure time: 72 h
   Test Type: semi-static test
   Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : No data available
Toxicity to fish (Chronic toxicity) : No data available

Components:
limestone:
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Daphnia magna (Water flea)): > 350 mg/l
   Exposure time: 125 d
   Test Type: semi-static test
   Test substance: Fresh water

M-Factor (Chronic aquatic toxicity) : No data available
Toxicity to microorganisms : No data available
Toxicity to soil dwelling organisms : No data available
Plant toxicity : No data available
Sediment toxicity : No data available
Toxicity to terrestrial organisms : No data available

Ecotoxicology Assessment
### SAFETY DATA SHEET

**RENSHAPE® 5065 US**

<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date:</th>
<th>SDS Number:</th>
<th>Date of last issue:</th>
<th>Date of first issue:</th>
</tr>
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<tbody>
<tr>
<td>1.0</td>
<td>06/18/2018</td>
<td>400001014165</td>
<td>-</td>
<td>06/18/2018</td>
</tr>
</tbody>
</table>

**Acute aquatic toxicity**: No data available

**Chronic aquatic toxicity**: No data available

**Toxicity Data on Soil**: No data available

**Other organisms relevant to the environment**: No data available

#### Persistence and degradability

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biodegradability</td>
<td>No data available</td>
</tr>
<tr>
<td>Biochemical Oxygen Demand (BOD)</td>
<td>No data available</td>
</tr>
<tr>
<td>Chemical Oxygen Demand (COD)</td>
<td>No data available</td>
</tr>
<tr>
<td>BOD/COD</td>
<td>No data available</td>
</tr>
<tr>
<td>ThOD</td>
<td>No data available</td>
</tr>
<tr>
<td>BOD/ThOD</td>
<td>No data available</td>
</tr>
<tr>
<td>Dissolved organic carbon (DOC)</td>
<td>No data available</td>
</tr>
<tr>
<td>Physico-chemical removability</td>
<td>No data available</td>
</tr>
<tr>
<td>Stability in water</td>
<td>No data available</td>
</tr>
<tr>
<td>Photodegradation</td>
<td>No data available</td>
</tr>
<tr>
<td>Impact on Sewage Treatment</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### Bioaccumulative potential

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioaccumulation</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### Components:

- **limestone:**
  - Partition coefficient: n-octanol/water: $\log Pow < 1$

#### Mobility in soil

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobility</td>
<td>No data available</td>
</tr>
<tr>
<td>Distribution among environmental compartments</td>
<td>No data available</td>
</tr>
<tr>
<td>Stability in soil</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Other adverse effects

Environmental fate and pathways: No data available

Results of PBT and vPvB assessment: No data available

Endocrine disrupting potential: No data available

Adsorbed organic bound halogens (AOX): No data available

Hazardous to the ozone layer

Ozone-Depletion Potential: Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances. Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information: No data available

Global warming potential (GWP): No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues: Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
Dispose of as hazardous waste in compliance with local and national regulations.
Dispose of contents/container to an approved waste disposal plant.

Contaminated packaging: Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations
IATA
Not regulated as dangerous goods

IMDG
Not regulated as dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

National Regulations

DOT Classification
Not regulated as dangerous goods

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act
CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65
WARNING: This product can expose you to chemicals including quartz (SiO2), carbon black, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

CH INV : Exemptions from the obligation to register
DSL : Exemptions from the obligation to register
AICS : Exemptions from the obligation to register
NZIoC : Exemptions from the obligation to register
ENCS : Exemptions from the obligation to register
KECI : Exemptions from the obligation to register
PICCS : Exemptions from the obligation to register
IECSC : Exemptions from the obligation to register
TCSI : Exemptions from the obligation to register
TSCA : Exemptions from the obligation to register

Inventories
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)
TSCA - 5(a) Significant New Use Rule List of Chemicals
No substances are subject to a Significant New Use Rule.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)
No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:

HMIS® IV:

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "\^" represents the absence of a chronic hazard.

Revision Date : 06/18/2018

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA : 8-hour, time-weighted average
OSHA Z-1 / TWA : 8-hour time weighted average
OSHA Z-3 / TWA : 8-hour time weighted average

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