

# **RENSHAPE® 5440 US**

Version Revision Date: SDS Number: Date of last issue: 10/20/2016 1.1 06/08/2021 400001008025 Date of first issue: 10/20/2016

Print Date 02/14/2023

#### **SECTION 1. IDENTIFICATION**

Product name : RENSHAPE® 5440 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

: Global Product EHS AdMat@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 the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

#### **GHS label elements**

Not a hazardous substance or mixture.

## Other hazards

None known.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Hazardous components

| Chemical name      | CAS-No.   | Concentration (% w/w) |
|--------------------|-----------|-----------------------|
| limestone          | 1317-65-3 | 20 - 30               |
| calcium distearate | 1592-23-0 | 1 - 5                 |
| silicon dioxide    | 7631-86-9 | 1 - 5                 |

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 : Do not leave the victim unattended.



## **RENSHAPE® 5440 US**

Version Revision Date: SDS Number: Date of last issue: 10/20/2016 1.1 06/08/2021 400001008025 Date of first issue: 10/20/2016

Print Date 02/14/2023

If inhaled : If unconscious, place in recovery position and seek medical

advice

If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses.

Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

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

Hazardous combustion

products

Carbon oxides

Further information : Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

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 : Avoid dust formation.

Methods and materials for

containment and cleaning up

Pick up and arrange disposal without creating dust.

Sweep up and shovel.

Keep in suitable, closed containers for disposal.

## **SECTION 7. HANDLING AND STORAGE**

Advice on protection against

fire and explosion

Provide appropriate exhaust ventilation at places where dust

is formed.



**RENSHAPE® 5440 US** 

Version Revision Date: SDS Number: Date of last issue: 10/20/2016
1.1 06/08/2021 400001008025 Date of first issue: 10/20/2016

Print Date 02/14/2023

Advice on safe handling : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Conditions for safe storage : Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

Further information on storage stability

No decomposition if stored and applied as directed.

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Components with workplace control parameters

| Components         | CAS-No.   | Value type<br>(Form of<br>exposure)          | Control parameters / Permissible concentration        | Basis     |
|--------------------|-----------|--|---|-----------|
| limestone          | 1317-65-3 | TWA (total dust)                             | 15 mg/m3  | OSHA Z-1  |
|                    |           | TWA<br>(respirable<br>fraction)              | 5 mg/m3   | OSHA Z-1  |
|                    |           | TWA<br>(Respirable)                          | 5 mg/m3<br>(Calcium<br>carbonate)                     | NIOSH REL |
|                    |           | TWA (total)                                  | 10 mg/m3<br>(Calcium<br>carbonate)                    | NIOSH REL |
|                    |           | TWA (Total dust)                             | 15 mg/m3  | OSHA P0   |
|                    |           | TWA (respirable dust fraction)               | 5 mg/m3   | OSHA PO   |
| calcium distearate | 1592-23-0 | TWA<br>(Inhalable<br>particulate<br>matter)  | 10 mg/m3  | ACGIH     |
|                    |           | TWA<br>(Respirable<br>particulate<br>matter) | 3 mg/m3   | ACGIH     |
| silicon dioxide    | 7631-86-9 | TWA (Dust)                                   | 20 Million<br>particles per cubic<br>foot<br>(Silica) | OSHA Z-3  |
|                    |           | TWA (Dust)                                   | 80 mg/m3 /<br>%SiO2<br>(Silica)                       | OSHA Z-3  |
|                    |           | TWA<br>(Respirable<br>dust)                  | 0.05 mg/m3<br>(Silica)                                | NIOSH REL |



# **RENSHAPE® 5440 US**

Version Revision Date: SDS Number: Date of last issue: 10/20/2016 1.1 06/08/2021 400001008025 Date of first issue: 10/20/2016

Print Date 02/14/2023

TWA 6 mg/m3 NIOSH REL (Silica)

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

Material : butyl-rubber Break through time : > 8 h

Material : Solvent-resistant gloves (butyl-rubber)

Material : Nitrile rubber
Material : Neoprene gloves

Material : PVC

Material : butyl-rubber Break through time : 10 - 480 min

Material : Solvent-resistant gloves (butyl-rubber)

Material : Nitrile rubber Material : Neoprene gloves

Material : PVC

Eye protection : Safety glasses

Skin and body protection : Protective suit

Hygiene measures : General industrial hygiene practice.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Solid form

Colour : light brown

Odour : odourless

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

pH : No data is available on the product itself.

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

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

Flash point : Method: closed cup

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.



# **RENSHAPE® 5440 US**

Version Revision Date: SDS Number: Date of last issue: 10/20/2016 1.1 06/08/2021 400001008025 Date of first issue: 10/20/2016

Print Date 02/14/2023

Lower explosion limit / Lower

flammability limit

: No data is available on the product itself.

Vapour pressure : < 0.0001 hPa (68 °F / 20 °C)

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

Relative density : 0.55

Density : 0.55 g/cm3 (77 °F / 25 °C)

Solubility(ies)

Water solubility : insoluble (68 °F / 20 °C)

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.

Decomposition temperature : > 392 °F / > 200 °C

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 decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous

reactions

Stable under recommended storage conditions.

No hazards to be specially mentioned.

Conditions to avoid : Avoid dust formation.

Hazardous decomposition

Nitrogen oxides (NOx)

products

Carbon oxides

Burning produces noxious and toxic fumes.



# **RENSHAPE® 5440 US**

Version Revision Date: Date of last issue: 10/20/2016 SDS Number: 400001008025 1.1 06/08/2021 Date of first issue: 10/20/2016

Print Date 02/14/2023

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

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

exposure

**Acute toxicity** 

Acute oral toxicity - Product : LD50 (Rat): > 5,000 mg/kg

**Components:** 

silicon dioxide:

Acute inhalation toxicity : LC50 (Rat, male and female): > 58.8 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

**Components:** 

silicon dioxide:

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Acute toxicity (other routes of : No data available

administration)

#### Skin corrosion/irritation

#### **Components:**

silicon dioxide: Species: Rabbit

Assessment: No skin irritation Method: OECD Test Guideline 404

Result: No skin irritation

#### Serious eye damage/eye irritation

#### Components:

limestone: Species: Rabbit

Result: Mechanical irritation of the eyes is possible.

Assessment: No eye irritation

silicon dioxide: Species: Rabbit

Result: No eye irritation Assessment: No eye irritation Method: OECD Test Guideline 405

#### Respiratory or skin sensitisation

## **Components:**

limestone:



## **RENSHAPE® 5440 US**

Version Revision Date: SDS Number: Date of last issue: 10/20/2016 1.1 06/08/2021 400001008025 Date of first issue: 10/20/2016

Print Date 02/14/2023

Exposure routes: Skin Species: Guinea pig

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

Assessment: No data available

## Germ cell mutagenicity

## **Components:**

silicon dioxide:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

## **Components:**

silicon dioxide:

Genotoxicity in vivo : Application Route: Inhalation

Dose: 50 mg/m3 Result: negative

Germ cell mutagenicity-

Assessment

: No data available

#### Carcinogenicity

## **Components:**

silicon dioxide:

Species: Rat, male and female

Application Route: Oral Exposure time: 103 weeks Dose: 1800 - 3200 mg/kg Frequency of Treatment: 7 daily Method: OECD Test Guideline 453

Result: negative

Carcinogenicity - : No data available

Assessment

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.



## **RENSHAPE® 5440 US**

Version Revision Date: SDS Number: Date of last issue: 10/20/2016 1.1 06/08/2021 400001008025 Date of first issue: 10/20/2016

Print Date 02/14/2023

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 No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

Reproductive toxicity

Effects on fertility : No data available

**Components:** 

silicon dioxide:

Effects on foetal development

: Species: Mouse

Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

1,340 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rabbit Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

1,600 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rat

Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

1,350 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Reproductive toxicity -

Assessment

: No data available

#### STOT - single exposure

No data available

#### STOT - repeated exposure

No data available

# Repeated dose toxicity

#### **Components:**

silicon dioxide:

Species: Rat, male and female NOEC: 4000 - 4500 mg/m3 Application Route: Ingestion Test atmosphere: dust/mist Exposure time: 13 Weeks Number of exposures: 7 d

Method: OECD Test Guideline 413



# **RENSHAPE® 5440 US**

Version Revision Date: SDS Number: Date of last issue: 10/20/2016 1.1 06/08/2021 400001008025 Date of first issue: 10/20/2016

Print Date 02/14/2023

Repeated dose toxicity -

Assessment

: No data available

## **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**

**Product:** 

Remarks: No data available

# **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

#### Components:

limestone:

Toxicity to fish : LC50: > 56,000 mg/l

Exposure time: 96 h

silicon dioxide:

Toxicity to fish : LL50 (Brachydanio rerio (zebrafish)): > 10,000 mg/l

Exposure time: 96 h
Test Type: static test
Test substance: Fresh water

Method: OECD Test Guideline 202

#### **Components:**



# **RENSHAPE® 5440 US**

Version Revision Date: SDS Number: Date of last issue: 10/20/2016 1.1 06/08/2021 400001008025 Date of first issue: 10/20/2016

Print Date 02/14/2023

silicon dioxide:

Toxicity to daphnia and other

aquatic invertebrates

: EL50 (Daphnia magna (Water flea)): >= 1,000 mg/l Exposure time: 24 h

Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

**Components:** 

silicon dioxide:

Toxicity to algae/aquatic

plants

: EL50 (Desmodesmus subspicatus (green algae)): > 10,000

mg/l

Exposure time: 72 h Test Type: static test

Test substance: Fresh water 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** 

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



# **RENSHAPE® 5440 US**

Version Revision Date: SDS Number: Date of last issue: 10/20/2016 1.1 06/08/2021 400001008025 Date of first issue: 10/20/2016

Print Date 02/14/2023

Persistence and degradability

Biodegradability : No data available

**Biochemical Oxygen** 

Demand (BOD)

: No data available

Chemical Oxygen Demand

(COD)

: No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon

(DOC)

: No data available

Physico-chemical

removability

: No data available

Stability in water : No data available

Photodegradation : No data available

Impact on Sewage

Treatment

: No data available

Bioaccumulative potential

Bioaccumulation : No data available

**Components:** 

limestone:

Partition coefficient: n-

octanol/water

: log Pow: < 1

Mobility in soil

Mobility : No data available

Distribution among

environmental compartments

: No data available

Stability in soil : No data available

Other adverse effects

Environmental fate and

pathways

: No data available

Results of PBT and vPvB

assessment

: No data available

Endocrine disrupting : No data available



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Version Revision Date: SDS Number: Date of last issue: 10/20/2016 1.1 06/08/2021 400001008025 Date of first issue: 10/20/2016

Print Date 02/14/2023

potential

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 - Product

Global warming potential

(GWP)

: No data available

: No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

#### **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**

#### **CERCLA Reportable Quantity**

| Components | CAS-No. | Component RQ   Calculated product |       |
|------------|---------|-----------------------------------|-------|
| -          |         | (lbs)                             | (lbs) |



## **RENSHAPE® 5440 US**

| Version | Revision Date: | SDS Number:  | Date of last issue: 10/20/2016  |
|---------|----------------|--------------|---------------------------------|
| 1.1     | 06/08/2021     | 400001008025 | Date of first issue: 10/20/2016 |

Print Date 02/14/2023

1,1-dichloroethylene 75-35-4 100 \*
acrylonitrile 107-13-1 100 \*

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 acrylonitrile, 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:

DSL : Exemptions from the obligation to register

AIIC : 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 : This product meets the 40 CFR §710.3(d) article definition and

is therefore exempt from the TSCA Inventory

## **Inventories**

AIIC (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

This product meets the 40 CFR §710.3(d) article definition and is therefore exempt from TSCA 5(a) requirements

# US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

This product meets the 40 CFR §710.3(d) article definition and is therefore exempt from TSCA 12(b) requirements

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.



# **RENSHAPE® 5440 US**

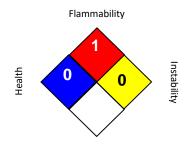
Version Revision Date: SDS Number: Date of last issue: 10/20/2016 1.1 06/08/2021 400001008025 Date of first issue: 10/20/2016

Print Date 02/14/2023

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

#### NFPA 704:



Special hazard

#### 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 : 06/08/2021

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA PO : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

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

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

OSHA P0 / TWA : 8-hour time weighted average OSHA Z-1 / TWA : 8-hour time weighted average OSHA Z-3 / TWA : 8-hour time weighted average

The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and



# **RENSHAPE® 5440 US**

Version Revision Date: SDS Number: Date of last issue: 10/20/2016 1.1 06/08/2021 400001008025 Date of first issue: 10/20/2016

Print Date 02/14/2023

behaviour should be determined by the user and made known to handlers, processors and end users.

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