

**RENSHAPE® 440 US**

Version 1.2      Revision Date: 03/11/2022      SDS Number: 400001012907      Date of last issue: 08/11/2017  
Date of first issue: 06/12/2015

Print Date 02/14/2023

**SECTION 1. IDENTIFICATION**

Product name : RENSHAPE® 440 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**

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**

Substance / Mixture : Substance

**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

**RENSHAPÉ® 440 US**

Version	Revision Date:	SDS Number:	Date of last issue: 08/11/2017
1.2	03/11/2022	400001012907	Date of first issue: 06/12/2015

Print Date 02/14/2023

**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 occurs.

If swallowed : Get medical attention if symptoms occur.

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 : No hazardous combustion products are known

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.

Environmental precautions : No special environmental precautions required.

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 : Provide appropriate exhaust ventilation at places where dust

**RENSHAPE® 440 US**

Version 1.2      Revision Date: 03/11/2022      SDS Number: 400001012907      Date of last issue: 08/11/2017  
 Date of first issue: 06/12/2015

Print Date 02/14/2023

fire and explosion      is formed.

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 (Form of exposure)	Control parameters / Permissible concentration	Basis
limestone	1317-65-3	TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Respirable)	5 mg/m <sup>3</sup> (Calcium carbonate)	NIOSH REL
		TWA (total)	10 mg/m <sup>3</sup> (Calcium carbonate)	NIOSH REL
		TWA (Total dust)	15 mg/m <sup>3</sup>	OSHA P0
		TWA (respirable dust fraction)	5 mg/m <sup>3</sup>	OSHA P0
calcium distearate	1592-23-0	TWA (Inhalable particulate matter)	10 mg/m <sup>3</sup>	ACGIH
		TWA (Respirable particulate matter)	3 mg/m <sup>3</sup>	ACGIH
silicon dioxide	7631-86-9	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m <sup>3</sup> / %SiO <sub>2</sub> (Silica)	OSHA Z-3
		TWA (Respirable)	0.05 mg/m <sup>3</sup> (Silica)	NIOSH REL

**RENSHAPE® 440 US**

Version 1.2      Revision Date: 03/11/2022      SDS Number: 400001012907      Date of last issue: 08/11/2017  
 Date of first issue: 06/12/2015

Print Date 02/14/2023

		dust)		
		TWA	6 mg/m3 (Silica)	NIOSH REL
		PEL (respirable)	0.05 mg/m3	OSHA CARC

**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Safety glasses

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 : General industrial hygiene practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : solid

Colour : red brown

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.

Melting point/freezing 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.

**RENSHAPE® 440 US**

Version	Revision Date:	SDS Number:	Date of last issue:
1.2	03/11/2022	400001012907	08/11/2017
			Date of first issue: 06/12/2015

Print Date 02/14/2023

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

Relative density : 0.55

Density : No data is available on the product itself.

## Solubility(ies)

Water solubility : insoluble

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 : 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 : Stable under recommended storage conditions.  
No hazards to be specially mentioned.

Conditions to avoid : Avoid dust formation.

Incompatible materials : None known.

Hazardous decomposition products : Carbon oxides  
Burning produces noxious and toxic fumes.  
Nitrogen oxides (NOx)

**RENSHAPE® 440 US**

Version	Revision Date:	SDS Number:	Date of last issue: 08/11/2017
1.2	03/11/2022	400001012907	Date of first issue: 06/12/2015

Print Date 02/14/2023

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Components:****limestone:**

Acute oral toxicity : LD50 (Rat): 6,450 mg/kg

**calcium distearate:**

Acute oral toxicity : LD50 (Rat): &gt; 10,000 mg/kg

**silicon dioxide:**Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401Acute inhalation toxicity : LC50 (Rat, male and female): > 58.8 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): &gt; 5,000 mg/kg

**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:**

Exposure routes : Skin

**RENSHAPE® 440 US**

Version	Revision Date:	SDS Number:	Date of last issue: 08/11/2017
1.2	03/11/2022	400001012907	Date of first issue: 06/12/2015

Print Date 02/14/2023

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

**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
--	---	--

Genotoxicity in vivo	:	Application Route: Inhalation Dose: 50 mg/m3 Result: negative
----------------------	---	---

**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

<b>IARC</b>	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.
-------------	---

<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
-------------	--

<b>NTP</b>	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****Components:****silicon dioxide:**

Effects on foetal development	:	Species: Mouse Application Route: Oral General Toxicity Maternal: NOAEL: 1,340 mg/kg body weight Method: OECD Test Guideline 414 Result: No teratogenic effects
-------------------------------	---	---

**RENSHAPE® 440 US**

Version	Revision Date:	SDS Number:	Date of last issue:
1.2	03/11/2022	400001012907	08/11/2017
			Date of first issue: 06/12/2015

Print Date 02/14/2023

Species: Rabbit  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 1,600 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 1,350 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

**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

**Aspiration toxicity**

No data available

**Experience with human exposure**

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: &gt; 56,000 mg/l



**RENSHAPE® 440 US**

Version	Revision Date:	SDS Number:	Date of last issue: 08/11/2017
1.2	03/11/2022	400001012907	Date of first issue: 06/12/2015

Print Date 02/14/2023

Exposure time: 96 h

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

**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

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

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

**Persistence and degradability**

No data available

**Bioaccumulative potential****Components:****limestone:**

Partition coefficient: n-octanol/water : log Pow: < 1

**Mobility in soil**

No data available

**Other adverse effects****Product:**

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

**RENSHAPE® 440 US**

Version	Revision Date:	SDS Number:	Date of last issue: 08/11/2017
1.2	03/11/2022	400001012907	Date of first issue: 06/12/2015

Print Date 02/14/2023

**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****UNRTDG**

Not regulated as dangerous goods

**IATA-DGR**

Not regulated as dangerous goods

**IMDG-Code**

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****49 CFR**

Not regulated as dangerous goods

**Special precautions for user**

Remarks : Not classified as dangerous in the meaning of transport regulations.

**SECTION 15. REGULATORY INFORMATION**

**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](http://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

**RENSHAPE® 440 US**

Version 1.2      Revision Date: 03/11/2022      SDS Number: 400001012907      Date of last issue: 08/11/2017  
 Date of first issue: 06/12/2015

Print Date 02/14/2023

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**

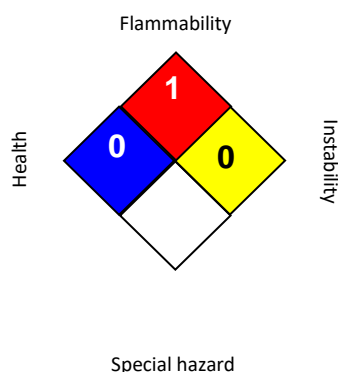
AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

**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

**SECTION 16. OTHER INFORMATION****Further information****NFPA 704:****HMIS® IV:**

<b>HEALTH</b>		<b>0</b>
<b>FLAMMABILITY</b>		<b>1</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>

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 : 03/11/2022

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

**RENSHAPE® 440 US**

Version	Revision Date:	SDS Number:	Date of last issue:
1.2	03/11/2022	400001012907	08/11/2017
			Date of first issue: 06/12/2015

Print Date 02/14/2023

OSHA CARC	:	OSHA Specifically Regulated Chemicals/Carcinogens
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
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 CARC / PEL	:	Permissible exposure limit (PEL)
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 behaviour should be determined by the user and made known to handlers, processors and end users.

The trademarks above are the property of Huntsman Corporation or an affiliate thereof.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED HUNTSMAN EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR HUNTSMAN PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE.