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RENSHAPE® 460 US

Version Revision Date: SDS Number: Date of last issue: -

0.0 08/03/2017 400001009909 Date of first issue: 08/03/2017

SECTION 1. IDENTIFICATION

Product name : RENSHAPE® 460 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

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
aluminium oxide	1344-28-1	1 - 5
quartz (SiO2)	14808-60-7	0.1 - 1

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.





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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.

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 extinguishing

methods

: No data is available on the product itself.

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

fire and explosion

Provide appropriate exhaust ventilation at places where dust

is formed.

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

Smoking, eating and drinking should be prohibited in the

application area.





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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/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
calcium distearate	1592-23-0	TWA	10 mg/m3	ACGIH
silicon dioxide	7631-86-9	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3
aluminium oxide	1344-28-1	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Respirable fraction)	1 mg/m3 (Aluminium)	ACGIH
quartz (SiO2)	14808-60-7	TWA (respirable)	10 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO2+5	OSHA Z-3
		TWA (Respirable fraction)	0.025 mg/m3 (Silica)	ACGIH
		TWA (Respirable dust)	0.05 mg/m3	OSHA Z-1

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.





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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 form

Colour : brown

Odour : odourless

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(ies)

Water solubility : insoluble (20 ℃)

Solubility in other solvents : No data is available on the product itself.





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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 : > 200 ℃

Method: estimated

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 : Stable under recommended storage conditions.

reactions 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)

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





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aluminium oxide:

Acute inhalation toxicity : LC50 (Rat, male and female): > 2.3 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute

inhalation toxicity

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

aluminium oxide: 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

aluminium oxide: Species: Rabbit

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





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Respiratory or skin sensitisation

Product:

Exposure routes: Skin Species: Guinea pig

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

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 - Assessment : No data available

IARC Group 1: Carcinogenic to humans

quartz (SiO2)

ACGIH Suspected human carcinogen

quartz (SiO2)

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





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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

Components:

aluminium oxide:

Effects on fertility : Species: Rat, male and female

Application Route: Oral

Dose: 1000 milligram per kilogram Method: OECD Test Guideline 422

Result: Animal testing did not show any effects on fertility.

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

aluminium oxide:

Species: Rat

Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

266 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





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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

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





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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

aluminium oxide:

Toxicity to fish : LC50 (Fish): > 50 mg/l

Exposure time: 96 h
Test Type: static test

Test substance: Fresh water

Components:

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

aluminium oxide:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Components:

silicon dioxide:

Toxicity to algae : 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

aluminium oxide:

Toxicity to algae : IC50 (Selenastrum capricornutum (green algae)): > 100 mg/l

Exposure time: 72 h

M-Factor (Acute aquatic

toxicity)

: No data available

Toxicity to fish (Chronic

toxicity)

: No data available





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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

Components:

aluminium oxide:

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Components:

aluminium oxide:

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Toxicity Data on Soil : No data available

Other organisms relevant to

the environment

: No data available

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

: No data available

(DOC)





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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

Method: No information available.

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

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 - Product

: No data available

Global warming potential :

: No data available





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(GWP)

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

EPCRA - Emergency Planning and Community Right-to-Know Act CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ	
		(lbs)	(lbs)	
1,1-dichloroethylene	75-35-4	100	*	

^{*:} Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

aluminium oxide 1344-28-1 >= 1 - < 5 %

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





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California Prop. 65

WARNING: This product can expose you to chemicals including quartz (SiO2), 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 Exemptions from the obligation to register **AICS 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 Exemptions from the obligation to register TCSI **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.

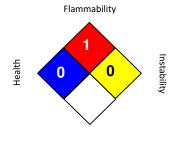
US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

NFPA:



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.

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ACGIH : USA. ACGIH Threshold Limit Values (TLV)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1





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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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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.

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