

RENCAST 6426-1 US

Version	Re
1.0	11

evision Date: 1/03/2015 SDS Number: 400001012688

SECTION 1. IDENTIFICATION

Product name	: RENCAST 6426-1 US	Croe St
Manufacturer or supplier's d	letails	
Company name of supplier Address	 Huntsman Advanced Materials Americas LLC P.O. Box 4980 The Woodlands, TX 77387 United States of America 	
Telephone	: Non-Emergency: (800) 257-5547	
E-mail address of person responsible for the SDS	: MSDS@huntsman.com	
Emergency telephone	: Chemtrec: (800) 424-9300 or (703) 527-3887	

Recommended use : Synthetic resin(s) and filler(s).

Recommended use of the chemical and restrictions on use

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification	
Acute toxicity (Inhalation)	: Category 4
Skin irritation	: Category 2
Eye irritation	: Category 2B
Respiratory sensitization	: Category 1
Skin sensitization	: Category 1
Specific target organ systemic toxicity - single exposure	: Category 3 (Respiratory system)
GHS Label element	
Hazard pictograms	

Signal Word

: Danger

E

Distributed By

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Hazard Statements

H315 + H320 Causes skin and eye irritation.
 H317 May cause an allergic skin reaction.
 H332 Harmful if inhaled.
 H334 May cause allergy or asthma symptoms or breathing



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		difficulties if inh H335 May caus	aled. se respiratory irritation.
Preca	autionary Statements	P264 Wash ski P271 Use only P272 Contamir the workplace. P280 Wear pro P285 In case o protection. Response: P302 + P352 IF P304 + P340 + and keep comf doctor/ physicia P305 + P351 + for several min to do. Continue P333 + P313 If attention. P337 + P313 If attention. P342 + P311 If POISON CENT P362 Take off o Storage: P403 + P233 S tightly closed. P405 Store loci Disposal:	f inadequate ventilation wear respiratory F ON SKIN: Wash with plenty of soap and water. P312 IF INHALED: Remove person to fresh air ortable for breathing. Call a POISON CENTER o an if you feel unwell. P338 IF IN EYES: Rinse cautiously with water utes. Remove contact lenses, if present and easy e rinsing. skin irritation or rash occurs: Get medical advice eye irritation persists: Get medical advice/ experiencing respiratory symptoms: Call a 'ER or doctor/ physician. contaminated clothing and wash before reuse.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	30 - 60
4,4'-methylenediphenyl diisocyanate	101-68-8	30 - 60

SECTION 4. FIRST AID MEASURES

General advice

: No hazards which require special first aid measures.

If inhaled

: Move to fresh air in case of accidental inhalation of dust or



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			rheating or combustion. rsist, call a physician.	
In ca	se of skin contact		ninated clothing and shoes immediately. oap and plenty of water.	
In ca	se of eye contact	Remove contac Protect unharm		
If sw	allowed	Do not give mil	: Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.	
	important symptoms effects, both acute and /ed	: None known.		

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: No data is available on the product itself.
Specific extinguishing methods	: No data is available on the product itself.
Further information	: Standard procedure for chemical fires.
Special protective equipment for fire-fighters	: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Not applicable for product as supplied.
Environmental precautions	: No special environmental precautions required.
Methods and materials for containment and cleaning up	: Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	: Normal measures for preventive fire protection.
Advice on safe handling	: For personal protection see section 8.





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		No special handl	ing advice required.
Condi	tions for safe storage	: Keep container ti place.	ghtly closed in a dry and well-ventilated
Mater	ials to avoid	: No special restric	ctions on storage with other products.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
4,4'-methylenediphenyl diisocyanate	101-68-8	TWA	0.005 ppm	ACGIH
· · ·		С	0.02 ppm 0.2 mg/m3	OSHA Z-1
		С	0.02 ppm 0.2 mg/m3	OSHA PEL
Personal protective equipn	nent			
Respiratory protection	: No persona required.	al respiratory prote	ective equipment no	rmally
Hand protection Remarks	: For prolone	ged or repeated co	ontact use protective	e gloves.
Eye protection	: Safety glas	Safety glasses		
Skin and body protection	: Protective	Protective suit		

Hygiene measures : General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: 1	liquid
Color	: 0	dark brown
Odor	: s	slight, sweet
Odor Threshold	: 1	No data is available on the product itself.
рН	: 1	No data is available on the product itself.
Flash point		> 93.33 °C Method: estimated, closed cup
Evaporation rate	: 1	No data is available on the product itself.
Flammability (solid, gas)	: 1	No data is available on the product itself.



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Uppe	er explosion limit	: No data is available on the product itself.			
Lowe	er explosion limit	: No data is available on the product itself.			
Vapo	or pressure	: No data is available on the product itself.			
Relat	tive vapor density	: No data is av	: No data is available on the product itself.		
Relat	tive density	: 1.01	: 1.01		
Dens	sity	: No data is available on the product itself.			
	oility(ies) ater solubility	: Water reactiv	e		
Sc	olubility in other solvents	: No data is available on the product itself.			
	tion coefficient: n-	: No data is av	ailable on the product itself.		
	nol/water ignition temperature	: No data is av	ailable on the product itself.		
Ther	mal decomposition	: No data is av	ailable on the product itself.		
Vis	scosity	: No data is av	ailable on the product itself.		
Self-Accelerating decomposition temperature (SADT)		: No data is av	ailable on the product itself.		

SECTION 10. STABILITY AND REACTIVITY

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Ingredients:

Isocyanic acid, polymethylenepolyphenylene ester: Acute oral toxicityIngredients : LD50 (Rat, male): > 10,000 mg/kg

Method: OECD Test Guideline 401

4,4'-methylenediphenyl diisocyanate:

Acute oral toxicityIngredients : LD50 (Rat, male): > 10,000 mg/kg Method: OECD Test Guideline 401



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Acute inhalation toxicity -	: Acute toxicity estimate: 2.1 mg/l
Product	Exposure time: 4 h
	Test atmosphere: dust/mist
	Method: Calculation method

Ingredients:

Isocyanic acid, polymethylenepolyphenylene ester:				
Acute dermal toxicity	: LD50 (Rabbit, male and female): > 9,400 mg/kg			
Method: OECD Test Guideline 402				

4,4'-methylenediphenyl diisocya	inate:
Acute dermal toxicity	: LD50 (Rabbit, male and female): > 9,400 mg/kg Method: OECD Test Guideline 402

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

Skin corrosion/irritation

Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation

Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitization

Product:

Remarks: No data available

Assessment:

No data available

Germ cell mutagenicity

Ingredients:

Isocyanic acid, polymethylenepolyphenylene ester: Genotoxicity in vitro : Concentration: 200 ug/plate

Metabolic activation: with and without metabolic activation Method: Directive 67/548/EEC, Annex V, B.13/14. Result: negative

4,4'-methylenediphenyl diisocyanate: Genotoxicity in vitro

: Concentration: 200 ug/plate Metabolic activation: with and without metabolic activation Method: Directive 67/548/EEC, Annex V, B.13/14.



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Result: negative

Ingredients:

Isocyanic acid, polymethylenepolyphenylene ester: : Application Route: Inhalation Genotoxicity in vivo Result: Not classified due to inconclusive data. **Application Route: Inhalation** Exposure time: 3 Weeks Dose: 113 mg/m3 Method: OECD Test Guideline 474 **Result:** negative 4,4'-methylenediphenyl diisocyanate: Genotoxicity in vivo : Application Route: Inhalation Exposure time: 3 Weeks Dose: 118 mg/m3 Method: OECD Test Guideline 474 Result: negative

Carcinogenicity

Ingredients:

Isocyanic acid, polymethylenepolyphenylene ester: Species: Rat, (male and female) **Application Route: Inhalation** Exposure time: 24 month(s) Dose: 1 mg/m³ Frequency of Treatment: 5 daily Method: OECD Test Guideline 453 **Result: negative**

4,4'-methylenediphenyl diisocyanate: Species: Rat, (male and female) **Application Route: Inhalation** Exposure time: 24 month(s) Dose: 1 mg/m³ Frequency of Treatment: 5 daily Method: OECD Test Guideline 453 Result: positive Target Organs: Lungs

Carcinogenicity - Assessment	: No data available
IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen





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		by NTP.	
Repro	oductive toxicity		
Ingre	dients:		
	anic acid, polymethyle ts on fertility		nale and female
4,4'-m	nethylenediphenyl diis		Test Guideline 414
Ingre	dients:		
	anic acid, polymethyle ts on fetal developmer	Application Ro General Toxicit Method: OECD	nale and female
4,4'-n	nethylenediphenyl diis	Species: Rat, fr Application Rou General Toxicit effect level): 4 Method: OECD	ute: Inhalation y Maternal: NOAEL (No observed adverse
	oductive toxicity - ssment	: No data availal	ble

STOT-single exposure

Ingredients:

Isocyanic acid, polymethylenepolyphenylene ester: Routes of exposure: Inhalation Target Organs: Respiratory Tract Assessment: May cause respiratory irritation.

4,4'-methylenediphenyl diisocyanate: Routes of exposure: Inhalation Target Organs: Respiratory Tract Assessment: May cause respiratory irritation.

STOT-repeated exposure

No data available

Repeated dose toxicity

Ingredients:



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Isocyanic acid, polymethylenepolyphenylene ester: Species: Rat, male and female NOEC: 0.2 mg/m3 Test atmosphere: dust/mist Exposure time: 2 yr Number of exposures: 5 d Method: OECD Test Guideline 453

4,4'-methylenediphenyl diisocyanate: Species: Rat, male and female NOEC: 0.2 mg/m3 Exposure time: 2 yr Number of exposures: 5 d Method: OECD Test Guideline 453

: No data available Repeated dose toxicity -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

Product: Remarks: No data available



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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Ingredients:

Isocyanic acid, polymethylenepolyphenylene ester: Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 1,000 mg/l Exposure time: 96 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 203 LC0: > 1,000 mg/l Exposure time: 96 h 4,4'-methylenediphenyl diisocyanate: Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 1,000 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 Ingredients:

Isocyanic acid, polymethylenepolyphenylene ester:

Toxicity to daphnia and other	: EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
aquatic invertebrates	Exposure time: 24 h
	Test Type: static test
	Test substance: Fresh water
	Method: OECD Test Guideline 202

4,4'-methylenediphenyl diisocyanate:

Toxicity to daphnia and other	:	EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
aquatic invertebrates		Exposure time: 24 h
		Test Type: static test
		Test substance: Fresh water
		Method: OECD Test Guideline 202

Ingredients:

Isocyanic acid, polymethylenepolyphenylene ester:

Toxicity to algae	 EC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 1,640 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

Ingredients:

Isocyanic acid, polymethylenepolyphenylene ester:



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:	Toxicity to daphnia a aquatic invertebrate (Chronic toxicity)		 NOEC (Daphnia magna (Water flea)): >= 10 mg/l Exposure time: 21 d Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 211 			
-	4,4'-methylenediphe Toxicity to daphnia a aquatic invertebrates (Chronic toxicity)	and other :	NOE Expe Test Test	osure time: 2 Type: semi-s substance: F	static test	
	M-Factor (Chronic a toxicity)	quatic :	No c	lata available		
<u> </u>	Ingredients:					
	lsocyanic acid, polyr Toxicity to bacteria		EC5 Expe Test Test	0 (activated s osure time: 3 Type: static t substance: F	test	
ļ	Ingredients:					
-	lsocyanic acid, polyr Toxicity to soil dwell organisms		EC5 Exp	0 (Eisenia fet osure time: 33	ida (earthworms)): > 1,000 mg/kg 36 h est Guideline 207	
-	4,4'-methylenediphe Toxicity to soil dwell organisms		NOE Expo	osure time: 33	etida (earthworms)): >= 1,000 mg/kg 36 h est Guideline 207	
	Plant toxicity	:	No c	lata available		
:	Sediment toxicity	:	No c	lata available		
	Toxicity to terrestrial organisms	:	No c	lata available		
	Ecotoxicology Asses Acute aquatic toxicit		No c	lata available		
(Chronic aquatic toxi	city :	No c	lata available		
-	Toxicity Data on Soi	I :	No c	lata available		
	Other organisms releted the environment	evant to :	No c	lata available		
	Further information:					

No data available



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Persistence and degradability

<u>Ingredients:</u> Isocyanic acid, polymethylenepo Biodegradability	olyphenylene ester: : Inoculum: Domestic sewage Concentration: 30 mg/l Result: Not biodegradable. Biodegradation: 0 % Exposure time: 28 d Method: Inherent Biodegradability: Modified MITI Test (II)
4,4'-methylenediphenyl diisocya Biodegradability	nate: : Inoculum: Domestic sewage Concentration: 30 mg/l Result: Not biodegradable. Biodegradation: 0 % Exposure time: 28 d Method: Inherent Biodegradability: Modified MITI Test (II)
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

Ingredients:

Isocyanic acid, polymethylenep	oly	/phenylene ester:
Bioaccumulation	:	Species: Cyprinus carpio (Carp)
		Bioconcentration factor (BCF): 200
		Remarks: Bioaccumulation is unlikely.



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		thylenediphenyl diisoc umulation	yan :						
	Ingredi	ents:							
		thylenediphenyl diisoc	yan	ate:					
	Partition octanol	n coefficient: n- /water	:	log Pow: 4.51 (20 pH: 7 Method: OECD To					
	Mobilit	y in soil							
	Mobility	/	:	No data available					
		ition among mental compartments	:	No data available					
	Stability	y in soil	:	No data available					
	Other a	adverse effects							
	Enviror pathwa	nmental fate and ys	:	No data available					
	Results assess	of PBT and vPvB ment	:	No data available					
	Endocr potentia	ine disrupting al	:	No data available					
		ed organic bound ns (AOX)	: No data available						
Hazardous to the ozone layer									
	Ozone-	Depletion Potential	:	Protection of Stra Substances Remarks: This pro manufactured with	R Protection of Environment; Part 82 tospheric Ozone - CAA Section 602 Class I oduct neither contains, nor was n a Class I or Class II ODS as defined by the t Section 602 (40 CFR 82, Subpt. A, App.A +				
		nal ecological	:	There is no data a	available for this product.				

information - Product Global warming potential : No data available (GWP)

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

: Offer surplus and non-recyclable solutions to a licensed disposal company.



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Conta	minated packaging	: Empty remainir Empty containe	ng contents. ers should be taken to an approved waste

handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulation

ΙΑΤΑ

Not regulated as a dangerous good

IMDG

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

DOT Classification Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

TSCA - 5(a) Significant New	:	Not relevant
Use Rule List of Chemicals		

EPCRA - Emergency Planning and Community Right-to-Know

SARA 311/312 Hazards	Acute Health Hazard		
SARA 313	: The following components are subject to reporting levels established by SARA Title III, Section 313:		g levels
	lsocyanic acid, polymethylenepolyphenyle ne ester	9016-87-9	38.88 %
	4,4'-methylenediphenyl diisocyanate	101-68-8	32.4 %

Clean Air Act

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). The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

4,4'-methylenediphenyl	101-68-8	32.4 %
diisocyanate		



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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

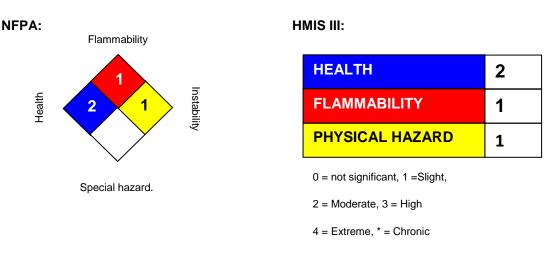
California Prop 65	This product does not contain any chemicals known to the
	State of California to cause cancer, birth, or any other
	reproductive defects.

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

TSCA : DSL : AICS : NZIOC : ENCS : ISHL : KECI :	The mixture contains substances listed on the Swiss Inventory On TSCA Inventory All components of this product are on the Canadian DSL. On the inventory, or in compliance with the inventory Not in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory
PICCS :	On the inventory, or in compliance with the inventory
IECSC :	On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION





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While 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.



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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.

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. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT PERMISSION IN WRITING FROM HUNTSMAN. ALL **REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET** SHOULD BE DIRECTED TO HUNTSMAN, MANAGER, PRODUCT SAFETY AT THE ABOVE ADDRESS.





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Section 1. Identification

CLIC mus du st identifier	
GHS product identifier :	REN 6426-1 US
Product code :	00066577
Other means of identification :	Not available.
Product type :	Liquid.
Material uses :	Hardener for tooling systems
Supplier's details :	Huntsman Advanced Materials Americas LLC P.O. Box 4980 The Woodlands, TX 77387
	Non-Emergency phone: (800) 257-5547
e-mail address of person : responsible for this SDS	MSDS@huntsman.com
Emergency telephone : number (24h/7day)	Chemtrec: (800) 424-9300 or (703) 527-3887

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 9% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 9%
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	 Causes serious eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.



Section 2. Hazards identification

Precautionary statements	:	Wear protective gloves. Wear eye or face protection. Avoid release to the environment. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Collect spillage. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention attention. Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not	1	None known.

result in classification

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
Polyether polyol dibenzyltoluene aliphatic amino acid ester	30 - 60 13 - 30 1 - 3	68909-26-2 26898-17-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation. **Occupational exposure limits, if available, are listed in Section 8.**

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.



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Section 4. First aid measures

Most important symptoms/effects, acute and delayed		
Potential acute health effe	<u>cts</u>	
Eye contact	: Causes serious eye irritation.	
Inhalation	 Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. 	
Skin contact	: May cause an allergic skin reaction.	
Ingestion	: Irritating to mouth, throat and stomach.	
Over-exposure signs/sym	<u>otoms</u>	
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	: No specific data.	
Skin contact	: Adverse symptoms may include the following: irritation redness	
Ingestion	: No specific data.	
Indication of immediate medical attention and special treatment needed, if necessary		
Notes to physician	 No specific treatment. Treat symptomatically. Call medical doctor or poison control center immediately if large quantities have been ingested. 	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	

Wash contaminated clothing thoroughly with water before removing it, or wear

See toxicological information (Section 11)

Section 5. Fire-fighting measures

gloves.

Flash point	: Closed cup: >93.33°C (>200°F) [Estimated]
Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide Carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides

Section 5. Fire-fighting measures

Special protective actions for fire-fighters	there	ptly isolate the scene by removing all persons from the vicinity of the incident if is a fire. No action shall be taken involving any personal risk or without ole training.
Special protective equipment for fire-fighters		ighters should wear appropriate protective equipment and self-contained ning apparatus (SCBA) with a full face-piece operated in positive pressure

Section 6. Accidental release measures

Personal precautions, protectiv	e equipment and emergency procedures
For non-emergency : personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders :	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions :	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Methods and materials for : containment and cleaning up	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:



Section 7. Handling and storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Appropriate engineering	 Good general ventilation should be sufficient to control worker exposure to airborne
controls	contaminants.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures	
Hygiene measures :	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection :	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Hand protection :	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection :	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin 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.
Respiratory protection :	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Thermal hazards :	Not available.



Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Not available.
Odor	: Slight
Odor threshold	: Not available.
рН	: Not available.
Melting point/Freezing point	: Not available.
Boiling/condensation point	: Not available.
Flash point	: Closed cup: >93.33°C (>200°F) [Estimated]
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.09 to 1.12
Solubility in water	: Slight
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Test	Endpoint	Species	Result
Polyether polyol	-	LD50 Dermal LD50 Oral	Rabbit Rat	10000 mg/kg 5000 mg/kg





Section 11. Toxicological information

Irritation/Corrosion

Irritation/Corrosion				1	
Product/ingredient name		Test		Species	Result
Polyether polyol		-		Rabbit	Eyes - Moderate irritant
Conclusion/Summary Skin	dibe	yether polyol enzyltoluene hatic amino acid ester	No addition	al information. al information. al information.	
Eyes	dibe	yether polyol enzyltoluene hatic amino acid ester		eyes. al information. al information.	
Respiratory	dibe	yether polyol enzyltoluene hatic amino acid ester	No addition	al information. al information. al information.	
Sensitization					
Not available.					
Mutagenicity					
Not available.					
Carcinogenicity					
Not available.					
Reproductive toxicity					
Not available.					
<u>Feratogenicity</u>					
Not available.					
<mark>Specific target organ toxi</mark> Not available.	<u>city (sir</u>	ngle exposure)			
<mark>Specific target organ toxi</mark> Not available.	<u>city (re</u>	<u>peated exposure)</u>			
Aspiration hazard Not available.					
nformation on the likely routes of exposure	: Not	available.			
Potential acute health effe	ects				
Eye contact		uses serious eye irritatio			
Inhalation	be	delayed following expos	ure.	ay cause a heal	th hazard. Serious effects ma
Skin contact	: Mag	y cause an allergic skin	reaction.		





Section 11. Toxicological information

		0			
Symptoms related to the	Symptoms related to the physical, chemical and toxicological characteristics				
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness			
Inhalation	1	No specific data.			
Skin contact	:	Adverse symptoms may include the following: irritation redness			
Ingestion	1	No specific data.			
Delayed and immediate	effec	ts and also chronic effects from short and long term exposure			
Short term exposure					
Potential immediate effects	:	Not available.			
Potential delayed effects	:	Not available.			
Long term exposure					
Potential immediate effects	:	Not available.			
Potential delayed effects	:	Not available.			

Potential chronic health effects

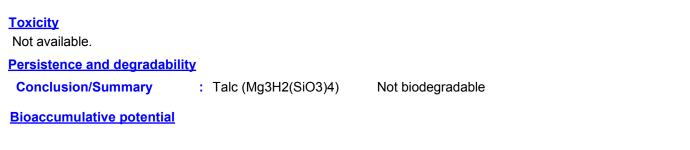
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.)		
Carcinogenicity	: No known significant effects or critical hazards.			
Mutagenicity	: No known significant effects or critical hazards.			
Teratogenicity	: No known significant effects or critical hazards.			
Developmental effects	: No known significant effects or critical hazards.			
Fertility effects	: No known significant effects or critical hazards.			
Numerical measures of toxicity				

Acute toxicity estimates

Rou	ıte	ATE value
Ora	I	14791.6 mg/kg

Other information : Not available.

Section 12. Ecological information



Section 12. Ecological information

Not available.

Mobility in soil

тос	: Not determined.
COD	: Not determined.
BOD5	: Not determined.
Other ecological information	
Other adverse effects	: No known significant effects or critical hazards.
Not available.	

Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with poil. watersupport design and acutors
	material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14. Transport information

Proper shipping name

- DOT : Environmentally hazardous substance, liquid, n.o.s. (dibenzyltoluene). Marine pollutant
- **TDG** : Environmentally hazardous substance, liquid, n.o.s. (dibenzyltoluene). Marine pollutant
- IMDG : Environmentally hazardous substance, liquid, n.o.s. (dibenzyltoluene). Marine pollutant
- **IATA** : Environmentally hazardous substance, liquid, n.o.s. (dibenzyltoluene)

Regulatory information	UN number	Classes	PG*	Label	Additional information

9/13

Section 14. Transport information

1011 14. Transp				
DOT Classification	UN3082	9	111	Marine pollutants are only regulated for bulk and vessel shipments, per 49CFR171.4 (c) Exceptions. Except when all or part of the transportation is by vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicle, rail car or aircraft.
TDG Classification	UN3082	9	111	-
IMDG Classification	UN3082	9	111	<u>Emergency</u> <u>schedules (EmS)</u> F-A S-F
IATA Classification	UN3082	9	III	Passenger and Cargo Aircraft Quantity limitation: 450 L Packaging instructions: 964 Cargo Aircraft Only Quantity limitation: 450 L Packaging instructions: 964

PG* : Packing group

Section 15. Regulatory information

Safety, health and environmental regulations specific for the product

United States Regulations

TSCA 8(b) inventory

: All components are listed or exempted.

TSCA 5(a)2 final : No ingredients listed. significant new use rule (SNUR)

8/8/2014.



Section 15. Regulatory information

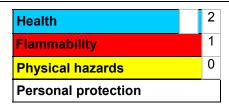
Section 15. Reg	natory mormation					
TSCA 5(e) substance consent order	: No ingredients listed.	No ingredients listed.				
TSCA 12(b) export notification	No ingredients listed.					
SARA 311/312	: Immediate (acute) health hazard	Immediate (acute) health hazard				
Clean Air Act - Ozone Depleting Substances (ODS)	This product does not contain nor is it manufactured with ozone depleting substances.					
SARA 313	: No ingredients listed.	No ingredients listed.				
CERCLA Hazardous substances	No ingredients listed.					
State regulations						
PENNSYLVANIA - RTK	silicic acid, aluminum potassium sodium salt, Talc (Mg3H2(SiO3)4)					
California Prop 65	WARNING: This product contains a chemical known to the State of California to cause cancer.					
	Ingredient name <u>Cancer</u> <u>Reproductive</u>					
	Formaldehyde Yes. No.					
Canadian regulations						
CEPA DSL	All components are listed or exempted.					
WHMIS Classes	: Class D-2B: Material causing other toxic effects (Toxic).					
•	n classified in accordance with the hazard criteria of the Controlled Products ASDS contains all the information required by the Controlled Products Regulation	ns.				
Brazil Regulations Classification system used	: Norma ABNT-NBR 14725-2:2012					

 International lists
 : Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): At least one component is not listed. Japan inventory: At least one component is not listed. Korea inventory: Not determined. Malaysia Inventory (EHS Register): Not determined. New Zealand Inventory of Chemicals (NZIoC): At least one component is not listed. Philippines inventory (PICCS): At least one component is not listed. Taiwan inventory (CSNN): Not determined.



Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

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Version	:	3

Indicates information that has changed from previously issued version.

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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.

Section 16. Other information

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.

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. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT PERMISSION IN WRITING FROM HUNTSMAN. ALL REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET SHOULD BE DIRECTED TO HUNTSMAN, MANAGER, PRODUCT SAFETY AT THE ABOVE ADDRESS.







DT 081 FILLER US

Version Revision Date: 1.0 01/04/2018

Product name

ate: SDS Number: 400001012726 Date of last issue: -Date of first issue: 01/04/2018

SECTION 1. IDENTIFICATION

Manufacturer or supplier's details				
Company name of supplier Address		Huntsman Advanced Materials Americas LLC 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				

: Fillers

: DT 081 FILLER US

SECTION 2. HAZARDS IDENTIFICATION

Recommended use

GHS classification in accordance with 29 CFR 1910.1200 Carcinogenicity (Inhalation) : Category 1A Specific target organ toxicity : Category 2 (Lungs) - repeated exposure (Inhalation) **GHS** label elements Hazard pictograms Signal word : Danger : H350i May cause cancer by inhalation. Hazard statements H373 May cause damage to organs (Lungs) through prolonged or repeated exposure if inhaled. : Prevention: Precautionary statements P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. **Response:** P308 + P313 IF exposed or concerned: Get medical advice/





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attention. **Storage:** P405 Store locked up. **Disposal:** P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
quartz (SiO2)	14808-60-7	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	 Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Treat symptomatically. Get medical attention if symptoms occur.
If inhaled	 Call a physician or poison control centre immediately. If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of eye contact	 Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	 Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
Most important symptoms and effects, both acute and delayed	: None known.
Notes to physician	: Treat symptomatically.



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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 Silicon oxides Metal 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.
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 containment and cleaning up	:	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 p is formed.	aces where dust
Advice on safe handling	Avoid formation of respirable particles. Do not breathe vapours/dust. Avoid exposure - obtain special instructions For personal protection see section 8. Smoking, eating and drinking should be pro application area. Provide sufficient air exchange and/or exha Dispose of rinse water in accordance with lo	hibited in the ust in work rooms.





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		regulations.	
Con	ditions for safe storage	Observe label pr	ightly closed in a dry and well-ventilated place. ecautions. labelled containers.
	her information on age stability	: Stable under no	ormal conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
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	In the case of dust or aerosol formation use respirator with approved filter. Dust safety masks are recommended when the dust concentration is more than 10 mg/m3.	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	Choose body protection according to the amount and concentration of the dangerous substance at the work place	Э.
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	:	particles
Colour	:	light grey





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Ode	our	:	odourless	
Ode	our Threshold	:	No data is availal	ble on the product itself.
pН		:	No data is availal	ble on the product itself.
Me	lting point	:	1,200 °C	
Boi	ling point		No data is availal	ble on the product itself.
Fla	sh point	:	No data is availal	ble on the product itself.
Eva	aporation rate	:	No data is availa	ble on the product itself.
Fla	mmability (solid, gas)	:	No data is availal	ble on the product itself.
Fla	mmability (liquids)	:	No data is availal	ble on the product itself.
	per explosion limit / Upper nmability limit	:	No data is availal	ble on the product itself.
	ver explosion limit / Lower nmability limit	:	No data is availal	ble on the product itself.
Vap	oour pressure	:	No data is availa	ble on the product itself.
Rel	ative vapour density	:	No data is availal	ble on the product itself.
Rel	ative density	:	0.6 - 0.95	
Der	nsity	:	0.35 - 0.45 g/cm3 Bulk density	3
	ubility(ies) Vater solubility	:	insoluble	
S	Solubility in other solvents	:	No data is availal	ble on the product itself.
	tition coefficient: n- anol/water	:	No data is availal	ble on the product itself.
	o-ignition temperature	:	No data is availal	ble on the product itself.
The	ermal decomposition	:	No data is availal	ble on the product itself.
dec	f-Accelerating composition temperature .DT)	:	No data is availal	ble on the product itself.
Vis	cosity	:	No data is availal	ble on the product itself.
Exp	plosive properties	:	No data is availal	ble on the product itself.
Oxi	dizing properties	:	No data is availal	ble on the product itself.
Par	ticle size	:	No data is availa	ble on the product itself.





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SECTION 10. STABILITY AND REACTIVITY

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

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	: No data is available on the product itself.
Acute toxicity	
Acute oral toxicity	: No data available
Acute inhalation toxicity	: No data available
Acute dermal toxicity	: No data available
Acute toxicity (other routes of administration)	: No data available
Skin corrosion/irritation	
No data available	
Serious eye damage/eye irri	tation
No data available	
Respiratory or skin sensitisa	ation
No data available	
Assessment:	No data available
Germ cell mutagenicity	
Genotoxicity in vitro	: No data available
Genotoxicity in vivo	: No data available
Carcinogenicity	
Componentes	
<u>Components:</u>	





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SDS Number: 400001012726

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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 -: Positive evidence from human epidemiological studies Assessment (inhalation) 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 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 Effects on foetal : No data available development : No data available Reproductive toxicity -Assessment STOT - single exposure No data available

STOT - repeated exposure

Components:

quartz (SiO2): Exposure routes: inhalation (dust/mist/fume) Target Organs: Lungs





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Assessment: May cause damage to organs through prolonged or repeated exposure.

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Repeated dose toxicity

No data available

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	
Toxicity to fish	: No data available
Toxicity to daphnia and other aquatic invertebrates	: No data available
Toxicity to algae	: No data available
M-Factor (Acute aquatic	: No data available





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toxicit	y)			
Toxici toxicit	ity to fish (Chronic y)	:	No data available	
aquat	ity to daphnia and other ic invertebrates nic toxicity)	:	No data available	
M-Fac toxicit	ctor (Chronic aquatic y)	:	No data available	
Toxic	ity to microorganisms	:	No data available	
Toxici organ	ity to soil dwelling isms	:	No data available	
Plant	toxicity	:	No data available	
Sedin	nent toxicity	:	No data available	
Toxici organ	ity to terrestrial isms	:	No data available	
	xicology Assessment aquatic toxicity	:	No data available	
Chron	nic aquatic toxicity	:	No data available	
Toxic	ity Data on Soil	:	No data available	
	organisms relevant to nvironment	:	No data available	
Persi	stence and degradabili	ity		
Biode	gradability	:	No data available	
	emical Oxygen and (BOD)	:	No data available	
Chem (COD	nical Oxygen Demand)	:	No data available	
BOD/	COD	:	No data available	
ThOD)	:	No data available	
BOD/	ThOD	:	No data available	
Disso (DOC	lved organic carbon)	:	No data available	
	co-chemical /ability	:	No data available	





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Stabilit	y in water	:	No data available	
Photod	legradation	:	No data available	
Impact Treatm	on Sewage lent	:	No data available	
	cumulative potential umulation	:	No data available	
Partitio octanol	n coefficient: n- I/water	:	No data available	
	ty in soil			
Mobility	y	:	No data available	
	ution among Imental compartments	:	No data available	
Stabilit	y in soil	:	No data available	
	adverse effects			
Enviror	nmental fate and ays	:	No data available	
Results assess	s of PBT and vPvB ment	:	No data available	
Endocr potentia	rine disrupting al	:	No data available	
	ed organic bound ns (AOX)	:	No data available	
Hazard	lous to the ozone laye	ər		
Ozone	-Depletion Potential	:	Protection of Strat Substances Remarks: This pro manufactured with	R Protection of Environment; Part 82 tospheric Ozone - CAA Section 602 Class I oduct neither contains, nor was n a Class I or Class II ODS as defined by the t Section 602 (40 CFR 82, Subpt. A, App.A +
Additio informa	nal ecological ation	:	No data available	
Global (GWP)	warming potential	:	No data available	





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

SECTION 14. TRANSPORT INFORMATION

International Regulations

ΙΑΤΑ

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

SARA 311/312 Hazards	:	Carcinogenicity Specific target organ toxicity (single or repeated exposure)
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).





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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 :	The formulation contains substances listed on the Swiss Inventory, On the inventory, or in compliance with the inventory
DSL :	All components of this product are on the Canadian DSL
AICS :	On the inventory, or in compliance with the inventory
NZIOC :	Not in compliance with the inventory
ENCS :	Not in compliance with the inventory
KECI :	On the inventory, or in compliance with the inventory
PICCS :	On the inventory, or in compliance with the inventory
IECSC :	On the inventory, or in compliance with the inventory
TCSI :	On the inventory, or in compliance with the inventory
TSCA :	On the inventory, or in compliance with the inventory

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

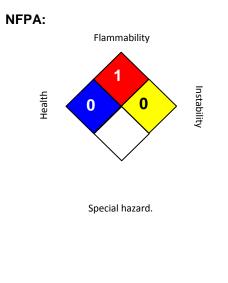
No substances are subject to a Significant New Use Rule.

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



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

: 01/04/2018





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ACGIH OSHA Z-1		nreshold Limit Values (TLV) onal Exposure Limits (OSHA) - Table Z-1
OSHA Z-3	Limits for Air Co USA. Occupatio Mineral Dusts	ontaminants onal Exposure Limits (OSHA) - Table Z-3
ACGIH / TWA OSHA Z-1 / TWA OSHA Z-3 / TWA	: 8-hour, time-wei : 8-hour time wei : 8-hour time wei	ghted 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.

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DT 082 FILLER US

Version Revision Date: 1.0 11/14/2017

Product name

SDS Number: 400001010103

: DT 082 FILLER US

Date of last issue: -Date of first issue: 11/14/2017

SECTION 1. IDENTIFICATION

Company name of supplier Address	••• •	Huntsman Advanced Materials Americas LLC P.O. Box 4980
Address	32	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

: Fillers

SECTION 2. HAZARDS IDENTIFICATION

Recommended use

GHS classification in accordance with 29 CFR 1910.1200 Combustible dust **GHS** label elements Signal word : Warning Hazard statements May form combustible dust concentrations in air. Other hazards None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
aluminium hydroxide	21645-51-2	90 - 100

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 : Treat symptomatically.





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		Get medical at	tention if symptoms occur.		
lf inha	aled	: If inhaled, remo Get medical at	ove to fresh air. tention if symptoms occur.		
In cas	se of skin contact	: Wash with wat	er and soap as a precaution.		
In cas	se of eye contact	Remove conta Protect unharm			
lf swa	llowed		ry tract clear. thing by mouth to an unconscious person. ersist, call a physician.		
	important symptoms ffects, both acute and ed	: None known.			
Notes	s to physician	: Treat symptom	atically.		

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.
Specific extinguishing methods	:	No data is available on the product itself.
		Standard procedure for chemical fires.
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	: Avoid dust formation.
Environmental precautions	: No special environmental precautions required.





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Methods and materials for : Pick up and arrange disposal without creating dust. containment and cleaning up 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.
Conditions for safe storage	÷	No special storage conditions required. Keep in properly labelled containers.
Materials to avoid	÷	For incompatible materials please refer to Section 10 of this SDS.
Recommended storage temperature	÷	2 - 40 °C
Further information on storage stability		Keep in a dry place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
aluminium hydroxide	21645-51-2	TWA (Respirable fraction)	1 mg/m3 (Aluminium)	ACGIH
		TWA (Respirable fraction)	1 mg/m3 (Aluminium)	ACGIH

Personal protective equipment

Respiratory protection

: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection





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Remarks		: The suitability for a specific workplace should be discussed with the producers of the protective gloves.							
Eye p	Eye protection		Safety glasses	with side-shields					
Skin a	Skin and body protection			protection according to the amount and of the dangerous substance at the work place.					
Hygiene measures		i.	General indust	rial hygiene practice.					

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	off-white
Odour	:	odourless
Odour Threshold	;	No data is available on the product itself.
ρH	:	6 - 8.5 (20 °C) Concentration: 500 g/l
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	÷	> 250 °C Method: estimated, closed cup
Evaporation rate	÷	No data is available on the product itself.
Flammability (solid, gas)	ŧ	No data is available on the product itself.
Flammability (liquids)	:	No data is available on the product itself.
Upper explosion limit / Upper flammability limit	11	No data is available on the product itself.
Lower explosion limit / Lower flammability limit	÷	No data is available on the product itself.
Vapour pressure	÷	< 0.0001 hPa (20 °C)
Relative vapour density	•	No data is available on the product itself.
Relative density	:	2.42
Density	:	No data is available on the product itself.
Solubility(ies) Water solubility	:	practically insoluble (20 °C)





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So	lubility in other solvents	:	No data is ava	ilable on the product itself.
	ion coefficient: n- ol/water	:	No data is ava	ailable on the product itself.
Auto-ignition temperature		;	No data is ava	ilable on the product itself.
Therr	mal decomposition	:	No data is ava	ilable on the product itself.
Self-Accelerating decomposition temperature		į	No data is ava	ilable on the product itself.

(SADT)		
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 Chemical stability Possibility of hazardous	 No dangerous reaction known under conditions of normal use. Stable under normal conditions. No hazards to be specially mentioned.
reactions	Dust may form explosive mixture in air.
Conditions to avoid	: None known.
Incompatible materials	: Oxidizing agents
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		
<u>Components:</u> aluminium hydroxide: Acute oral toxicityComponents	8	LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 423 Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	3	No data available
Acute dermal toxicity	8	No data available





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ersion .0	Revision Date: 11/14/2017	SDS Number: 400001010103	Date of last issue: - Date of first issue: 11/14/2017
	e toxicity (other routes of nistration)	: No data availabl	e
Skin	corrosion/irritation		
No da	ata available		
	ous eye damage/eye irri ata available	tation	
	iratory or skin sensitis	ation	
No da	ata available		
Asse	ssment:	No data available	
Germ	n cell mutagenicity		
Geno	toxicity in vitro	: No data availabl	e
Geno	toxicity in vivo	: No data availabl	e
Carci	inogenicity		
No da	ata available		
	nogenicity - ssment	: No data availabl	0
IARC			his product present at levels greater than or entified as probable, possible or confirmed by IARC.
ACG	IH		his product present at levels greater than or entified as a carcinogen or potential GIH.
OSH	A		his product present at levels greater than or OSHA's list of regulated carcinogens.
NTP			his product present at levels greater than or entified as a known or anticipated carcinogen
Repr	oductive toxicity		
18.35	ts on fertility	: No data availabl	e
	ts on foetal opment	: No data availabl	e

Reproductive toxicity - : No data available Assessment

STOT - single exposure

No data available





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STOT - repeated exposure

No data available

Repeated dose toxicity

No data available

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:

aluminium hydroxide: Toxicity to fish

: LC50: > 10,000 mg/l Exposure time: 96 h

Components:





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Toxic	inium hydroxide: city to daphnia and other tic invertebrates	a d	EC50: > 10,000 r Exposure time: 4	
Toxi	city to algae		No data available	1
M-Fa toxic	actor (Acute aquatic ity)		No data available	
Toxic toxic	city to fish (Chronic ity)	:	No data available	
aqua	city to daphnia and other tic invertebrates onic toxicity)	:	No data available	
M-Fa toxic	actor (Chronic aquatic ity)	1	No data available	•
Toxi	city to microorganisms	:	No data available	,
	city to soil dwelling nisms		No data available	
Plan	t toxicity	:	No data available	,
Sedi	ment toxicity	;	No data available)
	city to terrestrial nisms	:	No data available	
	oxicology Assessment e aquatic toxicity	:	No data available	3
Chro	nic aquatic toxicity	:	No data available	
Toxi	city Data on Soil	;	No data available	
	r organisms relevant to nvironment	÷	No data available	3
Pers	istence and degradabili	ty		
Biod	egradability	;	No data available	3
	hemical Oxygen and (BOD)	÷	No data available)
Cher (COI	nical Oxygen Demand)	:	No data available	
BOD	/COD	:	No data available	3
ThO	D	:	No data available	9





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BOD/	ThOD	c.	No data available	
Disso (DOC	lved organic carbon)	3	No data available	
	co-chemical vability		No data available	
Stabil	ity in water	1	No data available	
Photo	degradation	÷	No data available	
Impac Treat	ct on Sewage ment	:	No data available	
Bioad	cumulative potential			
Bioac	cumulation	ţ	No data available	
	on coefficient: n- ol/water	•	No data available	
Mobi	lity in soil			
Mobil	ity	3	No data available	
	oution among onmental compartments	3	No data available	
Stabil	ity in soil	1	No data available	
Other	adverse effects			
Enviro pathw	onmental fate and /ays		No data available	
	ts of PBT and vPvB sment		No data available	
Endo poten	crine disrupting tial	÷	No data available	
	bed organic bound ens (AOX)	•	No data available	
Haza	rdous to the ozone lay	er		
	e-Depletion Potential	:	Protection of Strat Substances Remarks: This pro manufactured with	R Protection of Environment; Part 82 tospheric Ozone - CAA Section 602 Class I oduct neither contains, nor was n a Class I or Class II ODS as defined by the t Section 602 (40 CFR 82, Subpt. A, App.A +
Additi	onal ecological	8	No data available	





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information

Global warming potential (GWP)

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

: Dispose of contents/ container to an approved waste disposal plant.

SECTION 14. TRANSPORT INFORMATION

International Regulations

ΙΑΤΑ

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

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

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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





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CHIN	٩V		n contains substances listed on the Swiss he inventory, or in compliance with the
DSL		: All components	s of this product are on the Canadian DSL
AICS			ry, or in compliance with the inventory
NZIO	С	 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory 	
ENCS	S		
KECI		: On the invento	ry, or in compliance with the inventory
PICC	S		ry, or in compliance with the inventory
IECS	С	: On the invento	ry, or in compliance with the inventory
TCSI			ry, or in compliance with the inventory
TSCA	4		ry, or in compliance with the inventory

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)

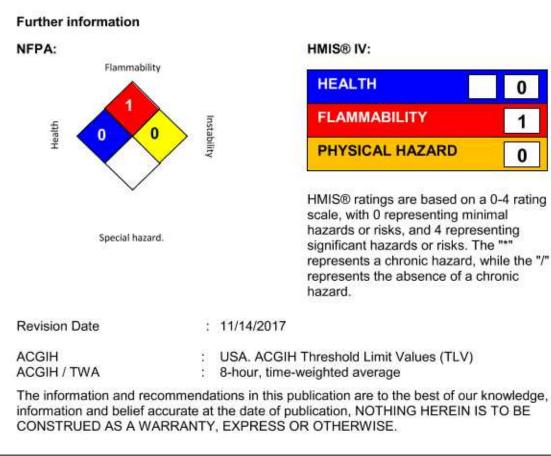
TSCA - 5(a) Significant New Use Rule List of Chemicals

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



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