

Versic 11.0	on Revision Date: 11/05/2020		DS Number: 50346-00038	Date of last issue: 10/01/2020 Date of first issue: 02/27/2017
SECT	ION 1. IDENTIFICATION			
Р	roduct name	:	Zelan™ R3	
Р	Product code	:	D15341709	
S	DS-Identcode	:	130000137177	
N	lanufacturer or supplier's (	deta	ails	
	company name of supplier	:	The Chemours C	ompany FC, LLC
A	ddress	:	1007 Market Stre Wilmington, DE 1	et 9801 United States of America (USA)
Т	elephone	:	1-844-773-CHEM	(outside the U.S. 1-302-773-1000)
E	mergency telephone	:		cy: 1-866-595-1473 (outside the U.S. 1-302- nsport emergency: +1-800-424-9300 (outside 527-3887)
R	ecommended use of the c	hen	nical and restriction	ons on use
R	ecommended use	:	Intermediate	
R	estrictions on use	:	tions involving im internal body fluid written agreemen	only. ell Chemours™ materials in medical applica- plantation in the human body or contact with ls or tissues unless agreed to by Seller in a t covering such use. For further information, ur Chemours representative.

### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

#### **Additional Labeling**

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 17.186 %

#### Other hazards

None known.

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

Substance / Mixture : Mixture



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Co	Components							
Che	emical name		CAS-No.		Concentration (% w/w)			
mo	3- methylamino)propyl]steara noacetate ual concentration is withhe		13282-70-7		>= 0.1 - < 1			
	ON 4. FIRST AID MEASUR							
lf ir	haled	:	If inhaled, remove Get medical atter		esh air. f symptoms occur.			
In c	case of skin contact				soap as a precaution. f symptoms occur.			
In c	case of eye contact		Flush eyes with v Get medical atter		as a precaution. f irritation develops and persists.			
lf s	wallowed		If swallowed, DO Get medical atter Rinse mouth thor	ntion i	f symptoms occur.			
and	st important symptoms d effects, both acute and ayed		tearing Redness Discomfort	prov	oke the following symptoms oke the following symptoms:			
Pro	tection of first-aiders	:	No special preca	utions	are necessary for first aid responders.			
Not	tes to physician	:	Treat symptomat	ically	and supportively.			

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Silicon oxides
Specific extinguishing meth-	:	Use extinguishing measures that are appropriate to local cir-



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ods			Use water spray	the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do
	ial protective equipment e-fighters	:	necessary.	ned breathing apparatus for firefighting if tective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide diking or other appropriate contain- ment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dispo- sal of this material, as well as those materials and items em- ployed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

#### SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers. Store in accordance with the particular national regulations.



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	Materia	ls to avoid	:	Do not store with Strong oxidizing a	the following product types: agents
	Recom peratur	mended storage tem- e	:	41 - 104 °F / 5 - 4	0°C
	Further age sta	information on stor- bility	:	Do not freeze.	
				Perishable if froze	en.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures :	Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.
Personal protective equipmen	t
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 hazar- dous 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	
Remarks :	For prolonged or repeated contact use protective gloves. Wash hands before breaks and at the end of workday.
Eye protection :	Wear the following personal protective equipment: Safety glasses
Skin and body protection :	Skin should be washed after contact.
Hygiene measures :	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the wor- king place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES





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	Appear	ance	:	liquid, Aqueous s	olution
	Color		:	white	
	Odor		:	No data available	)
	Odor T	hreshold	:	No data available	
	рН		:	4 - 7	
	Melting	point/freezing point	:	32 °F / 0 °C	
	Initial b range	oiling point and boiling	:	212 °F / 100 °C (1,013 hPa)	
	Flash p	oint	:	> 199 °F / > 93 °(	2
	Evapor	ation rate	:	No data available	)
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	)
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available	)
	Relative	e vapor density	:	No data available	)
	Density	,	:	1.03 g/cm <sup>3</sup>	
	Solubili Wat	ty(ies) er solubility	:	dispersible	
	Partitio octanol	n coefficient: n- /water	:	Not applicable	
	Autoigr	ition temperature	:	No data available	)
	Decom	position temperature	:	> 392 °F / > 200 °	°C
	Viscosi Visc	ty osity, kinematic	:	No data available	)
	Explosi	ve properties	:	Not explosive	



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Oxid	izing properties	:	The substance o	r mixture is not classified as oxidizing.			
Parti	cle size	:	Not applicable				
SECTION	10. STABILITY AND R	EAC	ΤΙVITY				
Read	ctivity	:	Not classified as	a reactivity hazard.			
Cher	Chemical stability		Stable under normal conditions.				
Poss tions	sibility of hazardous reac-	:		n explosive mixture with air. rong oxidizing agents.			
Cond	ditions to avoid	:	None known.				
Incor	mpatible materials	:	Oxidizing agents				
Haza prod	ardous decomposition ucts	:	No hazardous de	ecomposition products are known.			
SECTION	SECTION 11. TOXICOLOGICAL INFORMATION						
Infor	rmation on likely routes	ofe	exposure				
Inhal	lation contact						

Ingestion Eye contact

### Acute toxicity

Not classified based on available information.

### Product:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 425
Acute inhalation toxicity	:	Acute toxicity estimate: 50.26 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 402
Components:		

#### mponents:

N-[3-(Dimethylamino)propyl]stearamide monoacetate:							
Acute oral toxicity	:	LD50 (Rat): 1,403 mg/kg Method: OECD Test Guideline 425					
Acute inhalation toxicity	:	LC50 (Rat): > 0.66 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403					

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Acute	e dermal toxicity	:	LD50 (Rat): > 5 Method: OECD	i,000 mg/kg Test Guideline 402
II Skin	corrosion/irritation			
Not c	lassified based on ava	ailable	information.	
Prod	uct:			
Spec	ies	:	Rabbit	
Meth Resu		:	OECD Test Gu No skin irritatior	
<u>Com</u>	ponents:			
N-[3-	(Dimethylamino)pro	pyl]st	earamide monoa	acetate:
Spec		:	Rabbit	_
Resu	lit	:	No skin irritatio	n
Spec Resu Meth	lt	:	Rabbit No eye irritatior OPPTS 870.24	
	(Dimethylamino)pro	ovl]st	earamide monoa	acetate:
Spec		:	Rabbit	
Resu	lt	:	Irreversible effe	
Meth	00	:	OPPTS 870.24	00
Resp	piratory or skin sensi	tizatio	on	
Skin	sensitization			
Not c	lassified based on ava	ailable	information.	
Resp	piratory sensitization			
Not c	lassified based on ava	ailable	information.	
Prod	uct:			
Test		:		de assay (LLNA)
Spec Asse	ies ssment	:	Mouse Does not cause	e skin sensitization.
Meth		:	OPPTS 870.26	
<u>Com</u>	ponents:			
	(Dimethylamino)pro	ovilst	earamide mono:	acetate:
Test				de assav (LLNA)

	<i>`</i>		
Test Type Routes of exposure		:	Local lymph node assay (LLNA)
Routes of exposure		:	Skin contact



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Speci Asses Metho Resul	ssment od	<ul> <li>Mouse</li> <li>Probability or evidence of low to moderate skin sensitiza rate in humans</li> <li>OPPTS 870.2600</li> <li>positive</li> </ul>	
	cell mutagenicity assified based on avail	able information	
Produ		able mormation.	
Germ	cell mutagenicity - ssment	: Tests on bacteria mutagenic effect	al or mammalian cell cultures did not show s.
Carci	nogenicity		
Not cl IARC		t of this product prese	nt at levels greater than or equal to 0.1% is confirmed human carcinogen by IARC.
II OSH <i>I</i>		ent of this product prese ist of regulated carcino	ent at levels greater than or equal to 0.1% is gens.
NTP		t of this product prese a known or anticipatec	nt at levels greater than or equal to 0.1% is I carcinogen by NTP.
Not cl	oductive toxicity assified based on avail -single exposure	able information.	
	assified based on avail	able information.	

### STOT-repeated exposure

Not classified based on available information.

#### Components:

### N-[3-(Dimethylamino)propyl]stearamide monoacetate:

Assessment

: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

### Repeated dose toxicity

Components:

N-[3-(Dimethylamino)propyl]stearamide monoacetate:					
Species NOAEL LOAEL	:	Rat			
NOAEL	:	250 mg/kg			
LOAEL	:	> 250 mg/kg			
Application Route	:	Ingestion			
Exposure time	:	28 d			
Method	:	OPPTS 870.3050			
Application Route Exposure time Method Remarks	:	No significant adverse effects were reported			

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-	ration toxicity lassified based on availa	ıble	information.	
ECTION	12. ECOLOGICAL INFO	ORI	MATION	
Ecote	oxicity			
<u>Prod</u>	<u>uct:</u>			
	ity to daphnia and other tic invertebrates	:	Exposure time: 4 Method: OPPTS	
Toxic plants	ity to algae/aquatic s	:	mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 33 2 h 'est Guideline 201
			mg/l Exposure time: 7	irchneriella subcapitata (green algae)): 7.9 2 h <sup>c</sup> est Guideline 201
			mg/l Exposure time: 9	rchneriella subcapitata (green algae)): 3.1 6 h <sup>c</sup> est Guideline 201
Com	ponents:			
N-[3-	(Dimethylamino)propyl	lste	aramide monoac	etate:
LL -	ity to fish	:	LC50 (Gobiocypr Exposure time: 9	is rarus (rare gudgeon)): 2.14 mg/l
	ity to daphnia and other tic invertebrates	:	Exposure time: 4	nagna (Water flea)): 0.29 mg/l 8 h 'est Guideline 202
Toxic plants	ity to algae/aquatic s	:	Exposure time: 7	vulgaris (Fresh water algae)): 0.19 mg/l 2 h <sup>c</sup> est Guideline 201
			Exposure time: 7	vulgaris (Fresh water algae)): 0.026 mg/l 2 h

### Ecotoxicology Assessment

Chronic aquatic toxicity	:	Toxic to aquatic life with long lasting effects.

### Persistence and degradability

### Product:

Method: OECD Test Guideline 201

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Biode	egradability	:	Biodegradation: Exposure time: 1 Method: OECD	
			Biodegradation: Exposure time: 2	
	nemical Oxygen De- I (BOD)	:	0.4 mg/g	
Chen (COD	nical Oxygen Demand ))	:	341 mg/g	
Com	ponents:			
		/l]eta	aramida monoa	cetate -
N-[3-	(Dimethylamino)propy egradability	/l]ste :	Result: Readily b	
N-[3- Biode	(Dimethylamino)propy		Result: Readily b	biodegradable.
Bioae	(Dimethylamino)propy egradability		Result: Readily b	biodegradable.
N-[3- Biode Bioae <u>Com</u> N-[3-	(Dimethylamino)propy egradability ccumulative potential ponents: (Dimethylamino)propy	:	Result: Readily b Method: OECD	biodegradable. Test Guideline 301
N-[3- Biode Bioae <u>Com</u> N-[3-	(Dimethylamino)propy egradability ccumulative potential ponents:	:	Result: Readily b Method: OECD	biodegradable. Test Guideline 301
Biode Biode <u>Com</u> N-[3- Bioac Partit	(Dimethylamino)propy egradability ccumulative potential ponents: (Dimethylamino)propy	/l]ste	Result: Readily b Method: OECD	biodegradable. Test Guideline 301 <b>cetate:</b> h factor (BCF): 677.5
Biode Biode Com N-[3- Bioac Partit octan	(Dimethylamino)propy egradability ccumulative potential ponents: (Dimethylamino)propy ecumulation	/I]ste	Result: Readily b Method: OECD	biodegradable. Test Guideline 301 <b>cetate:</b> h factor (BCF): 677.5
N-[3- Biode Com N-[3- Bioac Partit octan Mobi	(Dimethylamino)propy egradability ccumulative potential ponents: (Dimethylamino)propy ccumulation ion coefficient: n-	/I]ste	Result: Readily b Method: OECD	biodegradable. Test Guideline 301 <b>cetate:</b> h factor (BCF): 677.5
Biode Biode Com N-[3- Bioac Partit octan No da	(Dimethylamino)propy egradability ccumulative potential ponents: (Dimethylamino)propy ecumulation ion coefficient: n- iol/water lity in soil	/I]ste	Result: Readily b Method: OECD	biodegradable. Test Guideline 301 <b>cetate:</b> h factor (BCF): 677.5

### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

### SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG



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Not re	egulated as a dangero	ous good				
	IATA-DGR Not regulated as a dangerous good					
	IMDG-Code 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**

#### 49 CFR

Not regulated as a dangerous good

#### **SECTION 15. REGULATORY INFORMATION**

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Acetic acid	64-19-7	5000	*
Isobutyl methyl ketone	108-10-1	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

#### 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.

#### **US State Regulations**

#### Pennsylvania Right To Know

Water	7732-18-5
Alkyl Urethane	Trade secret
Proprietary copolymer	Trade secret
Dipropylene glycol	25265-71-8
Acetic acid	64-19-7
Isobutyl methyl ketone	108-10-1

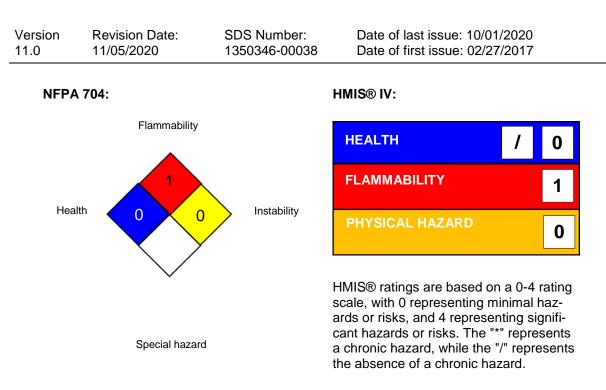
#### California Prop. 65

WARNING: This product can expose you to chemicals including Isobutyl methyl ketone, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

#### Further information





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Chemours<sup>™</sup> and the Chemours Logo are trademarks of The Chemours Company. Before use read Chemours safety information.

For further information contact the local Chemours office or nominated distributors.

We do not routinely test this product for the presence of heavy metals, but these substances are not intentionally added to or used in the manufacture of this product.

### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System: GLP - Good Laboratory Practice: HMIS - Hazardous Materials Identification System: IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quanti-



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tative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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