

SAFETY DATA SHEET

1. Identification Product identifier: RTV577 Other means of identification Synonyms: SILICONE RUBBER COMPOUND Recommended use and restriction on use Recommended use: Silicone Elastomer Restrictions on use: Not known. Manufacturer/Importer/Distr Momentive Performance Materials - Sistersville : ibutor Information 10851 Energy Highway FRIENDLY WV 26146 commercial.services@momentive.com Contact person : Telephone : General information +1-800-295-2392 **Emergency telephone** number Supplier CHEMTREC : 1-800-424-9300

2. Hazard(s) identification	
Hazard Classification	Not classified
Label Elements	
Hazard Symbol:	No symbol
Signal Word:	No signal word.
Hazard Statement:	Not applicable
Precautionary Statements	Not applicable
Hazard(s) not otherwise classified (HNOC):	None.
SDS_US	1/14

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*	Notes
(1) Calcium Carbonate	471-34-1	20 - <50%	# This substance has workplace exposure limit(s).
(1) Zinc oxide	1314-13-2	10 - <20%	# This substance has workplace exposure limit(s).
Silicic acid, ethyl ester	11099-06-2	1 - <5%	No data available.

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

(1) The respirable particle(s) listed above are inextricably bound within the polymer matrix, and therefore does not present an inhalation hazard during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

4. First-aid measures	
Ingestion:	If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical attention.
Inhalation:	If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical attention.
Skin Contact:	After contact with skin, remove product mechanically. Wash area with soap and water.
Eye contact:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Most important symptoms/effects	s, acute and delayed
Symptoms:	No data available.
Hazards:	No data available.
Indication of immediate medical	attention and special treatment needed
Treatment:	Treatment is symptomatic and supportive.
5. Fire-fighting measures	

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General Fire Hazards:	Use standard firefighting procedures and consider the hazards of other involved materials. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.
Suitable (and unsuitable) exting	uishing media
Suitable extinguishing media:	All standard extinguishing agents are suitable.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	In case of fire, carbon monoxide and carbon dioxide may be formed. Acute overexposure to the products of combustion may result in irritation of the respiratory tract. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.
Special protective equipment an	d precautions for firefighters
Special fire fighting procedures:	Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Keep away from sources of ignition - No smoking.
Special protective equipment for fire-fighters:	Firefighters must wear NIOSH/MSHA approved positive pressure self- contained breathing apparatus with full face mask and full protective clothing.
6. Accidental release measure	S
Personal precautions, protective equipment and emergency procedures:	Avoid contact with skin and eyes. See Section 8 of the SDS for Personal Protective Equipment.

Methods and material for
containment and cleaning
up:Wipe, scrape or soak up in an inert material and put in a container for
disposal. Wash walking surfaces with detergent and water to reduce
slipping hazard.Notification Procedures:Caution: Contaminated surfaces may be slippery. Remove sources of
ignition.Environmental Precautions:Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage		

Precautions for safe handling: Sensitivity to static discharge is not expected.



Conditions for safe storage,	No data available.
including any	
incompatibilities:	

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source
(1) Calcium Carbonate - Total	REL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
(1) Calcium Carbonate - Respirable.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
(1) Calcium Carbonate - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
(1) Calcium Carbonate - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
(1) Calcium Carbonate - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
(1) Calcium Carbonate - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
(1) Calcium Carbonate - Total dust.	TWA	15 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
(1) Calcium Carbonate - Respirable fraction.	TWA	5 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
(1) Zinc oxide - Respirable fraction.	TWA	2 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2015)
	STEL	10 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2015)
(1) Zinc oxide - Dust.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
(1) Zinc oxide - Fume.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
(1) Zinc oxide - Dust.	Ceil_Time	15 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
(1) Zinc oxide - Fume.	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
(1) Zinc oxide - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
(1) Zinc oxide - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
(1) Zinc oxide - Total dust.	TWA	10 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
(1) Zinc oxide - Fume.	STEL	10 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
(1) Zinc oxide - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
(1) Zinc oxide - Total dust.	TWA	10 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
(1) Zinc oxide - Respirable fraction.	TWA	5 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
(1) Zinc oxide - Fume.	TWA	5 mg/m3	US. Tennessee. OELs. Occupational Exposure



			Limits, Table Z1A, as amended (06 2008)
(1) Zinc oxide	ST ESL	20 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
	AN ESL	2 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
(1) Zinc oxide - Fume.	TWA PEL	5 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)
	STEL	10 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)
(1) Zinc oxide	IDLH	500 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
(1) Zinc oxide - Fume.	STEL	10 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (01 2019)

This product contains one or more substances with an occupational exposure limit. However, the respirable particle(s) of this/these substance(s) are inextricably bound within the polymer matrix. Therefore, we do not expect an exposure to this/these substance(s) during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

Appropriate Engineering Controls	Eyewash bottle with clean water.
Individual protection measures,	such as personal protective equipment
General information:	No data available.
Eye/face protection:	Safety glasses with side shields
Skin Protection Hand Protection:	Rubber gloves are recommended.
Other:	Wear suitable protective clothing and eye/face protection.
Respiratory Protection:	If inhalation exposure is expected, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).
Hygiene measures:	Avoid contact with eyes, skin, and clothing. Wash hands after handling. When using do not eat, drink or smoke.

9. Physical and chemical properties

Appearance

Physical state:	solid
Form:	Paste
Color:	White
Odor:	Faint
Odor threshold:	No data available.
pH:	Not applicable
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Melting point/freezing point: Initial boiling point and boiling range: Flash Point: Evaporation rate: Flammability (solid, gas): Upper/lower limit on flammability or explosive	No data available. > 168 °C > 100 °C No data available. No data available. e limits
Flammability limit - upper (%): Flammability limit - lower (%):	No data available. No data available.
Explosive limit - lower (/6). Explosive limit - lower:	No data available. No data available.
Heat of combustion:	No data available.
Vapor pressure:	Not applicable
Vapor density:	Not applicable
Density:	ca. 1.35 g/cm3
Relative density:	ca. 1.35
Solubility(ies)	
Solubility in water:	Insoluble
Solubility (other):	Negligible
Partition coefficient (n-octanol/water) Log Pow:	No data available.
Auto-ignition temperature:	Not applicable
Decomposition temperature:	No data available.
SADT:	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	No data available.
VOC:	; No data available.

10. Stability and reactivity

Reactivity:	No dangerous reaction if used as recommended.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Heat, sparks, flames.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	Carbon dioxide Formaldehyde. Silicon dioxide. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.



11. Toxicological information

Information on likely routes of exposure Ingestion: No data available.			
Inhalation:	No data available.		
Skin Contact:	No data available.		
Eye contact:	No data available.		
Symptoms related to the physica Ingestion:	al, chemical and toxicological characteristics No data available.		
Inhalation:	No data available.		
Skin Contact:	No data available.		
Eye contact:	No data available.		
Information on toxicological effe	ects		
Acute toxicity (list all possible	e routes of exposure)		
Oral Product:	Not classified for acute toxicity based on available data.		
Specified substance(s): (1) Zinc oxide	LD 50 (Rat): > 5,000 mg/kg		
Dermal Product:	Not classified for acute toxicity based on available data.		
Inhalation Product:	Not classified for acute toxicity based on available data.		
Repeated dose toxicity Product:	No data available.		
Skin Corrosion/Irritation Product:	No data available.		
Serious Eye Damage/Eye Irritation Product: No data available.			
Respiratory or Skin Sensitizatio SDS_US	n		



Product:	No data available.		
Carcinogenicity Product:	No data available.		
IARC Monographs on the No carcinogenic componer	e Evaluation of Carcinogenic Risks to Humans: nts identified		
US. National Toxicology No carcinogenic componer	Program (NTP) Report on Carcinogens: nts identified		
US. OSHA Specifically Re No carcinogenic componer	egulated Substances (29 CFR 1910.1001-1050), as amended: nts identified		
Germ Cell Mutagenicity			
In vitro Product:	No data available.		
In vivo Product:	No data available.		
Reproductive toxicity Product:	No data available.		
Specific Target Organ Toxicity Product:	v - Single Exposure No data available.		
Specific Target Organ Toxicity Product:	 Repeated Exposure No data available. 		
Aspiration Hazard Product:	No data available.		
Other effects:	No data available.		
12. Ecological information			
Ecotoxicity:			
Acute hazards to the aquatic environment:			
Fish Product:	No data available.		

Aquatic Invertebrates Product:

No data available.

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Chronic hazards to the aquatic environment:		
Fish Product:	No data available.	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	No data available.	
BOD/COD Ratio Product:	No data available.	
Bioaccumulative potential Bioconcentration Factor (BC Product:	F) No data available.	
Partition Coefficient n-octan Product:	ol / water (log Kow) No data available.	
Mobility in soil:	No data available.	
	ion to environmental compartments	
(1) Calcium Carbonate	No data available.	
 Zinc oxide Silicic acid, ethyl ester 	No data available. No data available.	
Other adverse effects:	No data available.	
13. Disposal considerations		
General information:	The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the ground. See Section 8 for information on appropriate personal protective equipment.	
Disposal instructions:	Disposal should be made in accordance with federal, state and local regulations.	
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Contaminated Packaging: Di	spose of as unused product.
4. Transport information	
ООТ	
UN Number:	UN 3082
UN Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s.(zinc oxide)
Transport Hazard Class(es)	
Class:	9
Label(s):	9
Packing Group:	III
Marine Pollutant:	Yes
MDG	
UN Number:	UN 3082
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(zinc oxide)
Transport Hazard Class(es)	
Ċlass:	9
Label(s):	9
EmS No.:	F-A, S-F
Packing Group:	
Marine Pollutant:	Yes
Limited quantity	5.00L
Excepted quantity	E1
ΑΤΑ	
UN Number:	UN 3082
Proper Shipping Name: Transport Hazard Class(es):	Environmentally hazardous substance, liquid, n.o.s. (zinc oxide)
Class:	9
Label(s):	9MI
Packing Group:	III
Cargo aircraft only Packing	964
Instructions:	JUT
Passenger and cargo aircraft	964
Packing Instructions:	тот
Limited quantity:	30.00L
Packing Instructions:	Y964
r doking instructions.	
Excepted quantity	E1
Environmental Hazards:	Environmentally hazardous
Marine Pollutant:	Yes



Special precautions for user:	In accordance with National and International regulations for Dangerous Goods and applicable Special Provisions, products otherwise classified as a Dangerous Goods for transport, with
	Class 9, UN 3077 or UN 3082, need not be packed, marked, labeled or placarded as a Dangerous Goods, when shipped in Single or combination packagings, containing a net quantity per
	single or inner packaging of 5 L or less, for liquids or having a net mass of 5 kg or less, for solids

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

Chemical Identity Siloxanes and Silicones, di-Me, di-Ph, hydroxy- terminated	<u>OSHA hazard(s)</u> No OSHA Hazards
(1) Calcium Carbonate	Causes mild skin irritation.; Corrosive to eyes; Respiratory hazard.
(1) Zinc oxide	No OSHA Hazards
Castor oil, hydrogenated	No OSHA Hazards

CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u> <u>Reportable quantity</u>

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Not classified

SARA 302 Extremely Hazardous Substance None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.



SARA 311/312 Hazardous ChemicalChemical IdentityThreshold Planning Quantity

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

	<u>Reporting</u>	Reporting threshold for
	threshold for	manufacturing and
Chemical Identity	<u>other users</u>	processing

(1) Zinc oxide

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Siloxanes and Silicones, di-Me, di-Ph, hydroxy-terminated

- (1) Calcium Carbonate
- (1) Zinc oxide

Castor oil, hydrogenated

Silicic acid, ethyl ester

US. Massachusetts RTK - Substance List

Chemical Identity

- (1) Calcium Carbonate
- (1) Zinc oxide

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Calcium Carbonate
 Zinc oxide
 Silicic acid, ethyl ester

US. Rhode Island RTK

Chemical Identity

(1) Calcium Carbonate

(1) Zinc oxide



Inventory Status:

Australia AICS:	On or in compliance with the	Remarks: None.
	inventory	
Canada DSL Inventory List:	On or in compliance with the inventory	Remarks: None.
EINECS, ELINCS or NLP:	On or in compliance with the inventory	Remarks: None.
Japan (ENCS) List:	On or in compliance with the inventory	Remarks: None.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory	Remarks: None.
Canada NDSL Inventory:	Not in compliance with the inventory.	Remarks: None.
Philippines PICCS:	On or in compliance with the inventory	Remarks: None.
US TSCA Inventory:	On or in compliance with the inventory	Remarks: None.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory	Remarks: None.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	Remarks: None.
REACH:	If purchased from Momentive Performance Materials GmbH in Leverkusen, Germany, all substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent monomers and other reactants.	Remarks: None.

16.Other information, including date of preparation or last revision

HMIS Hazard ID

Health	0
Flammability	0
Physical Hazards	0
PERSONAL PROTECTION	

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect



Issue Date:	08/12/2020
Revision Date:	No data available.
Version #:	2.1
Further Information:	No data available.
Disclaimer:	Notice to reader Unless otherwise specified in section 1, Momentive products are intended for use in the manufacture and/or formulation of products and are not intended for direct consumer use. These products are not intended for long-lasting (> 30 days) implantation, injection or direct ingestion into the human body, nor for use in the manufacture of multiple use contraceptives. Keep out of the reach of children.
	<u>Further Information</u> 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 given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be

processing, storage, transportation, disposal and release and is not to be considered a warrantyor quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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SAFETY DATA SHEET

1. Identification			
Product identifier: DBT			
Other means of identification Synonyms:		Catalyst (DBT)	
Recommended use and restriction on use Recommended use: For industrial use only. Restrictions on use: Not known.			
Manufacturer/Importer/Distr ibutor Information	:	Momentive Performance Materials LLC 260 Hudson River Road Waterford NY 12188	
Contact person	:	commercial.services@momentive.com	
Telephone	:	General information +1-800-295-2392	
Emergency telephone number Supplier	:	CHEMTREC 1-800-424-9300	

2. Hazard(s) identification

Hazard Classification

Health Hazards	
Skin Corrosion/Irritation	Category 1C
Serious Eye Damage/Eye Irritation	Category 1
Skin sensitizer	Category 1
Germ Cell Mutagenicity	Category 2
Toxic to reproduction	Category 1B
Specific Target Organ Toxicity - Single Exposure	Category 1 ^{1.}
Specific Target Organ Toxicity - Repeated Exposure	Category 1 ^{2.}

Target Organs 1. thymus

- 2. thymus

Label Elements

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Hazard Symbol:	
Signal Word:	Danger
Hazard Statement:	 H314; Causes severe skin burns and eye damage. H317; May cause an allergic skin reaction. H341; Suspected of causing genetic defects. H360; May damage fertility or the unborn child. H370; Causes damage to organs. H372; Causes damage to organs <or affected,="" all="" if="" known="" organs="" state=""> through prolonged or repeated exposure <state cause="" conclusively="" exposure="" hazard="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" that="" the="">.</state></or>
Precautionary Statements	
Prevention:	Do not breathe dust or mists. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product.
Response:	IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. If skin irritation or rash occurs: Get medical advice/attention. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.

3. Composition/information on ingredients



Substances

Chemical Identity	CAS number	Content in percent (%)*	
Dibutyltin Dilaurate	77-58-7	50 - <100%	
* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.			

1. First-aid measures	
Ingestion:	If swallowed, do NOT induce vomiting. Give a glass of water. Call a physician or poison control center immediately.
Inhalation:	Move to fresh air. If respiratory problems, artificial respiration/oxygen. Get medical attention.
Skin Contact:	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Wash contaminated clothing before reuse. Call a physician or poison control center immediately.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.
Most important symptoms/eff	fects, acute and delayed
Symptoms:	This product is a corrosive material. Gastric lavage or emesis may be contraindicated. Ingestion or inhalation may result in shock, decreased blood pressure, pulmonary edema, CNS depression, edema of the glottis with asphyxia, and perforation of the esophagus or stomach. Inhalation of vapors or fumes may result in coughing, choking, and CNS effects followed after a 6-8 hour latent period by pulmonary edema with tightness in the chest, air hunger, dizziness, frothy sputum, and cyanosis. Physical finding may include moist rales, low blood pressure, and high pulse pressure. Hemoptysis and dyspnea may continue for several weeks. Prednisolone may reduce esophageal stricture formation.
Hazards:	No data available.
Indication of immediate med	ical attention and special treatment needed
Treatment:	Treatment is symptomatic and supportive.
5. Fire-fighting measures	
General Fire Hazards:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use standard firefighting procedures and consider the hazards of other involved materials. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.
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Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	All standard extinguishing agents are suitable.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	In case of fire, carbon monoxide and carbon dioxide may be formed. Oxides of tin.
Special protective equipment an	d precautions for firefighters
Special fire fighting procedures:	Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters:	Firefighters must wear NIOSH/MSHA approved positive pressure self- contained breathing apparatus with full face mask and full protective clothing.
6. Accidental release measure	S
Personal precautions, protective equipment and emergency procedures:	Caution: Contaminated surfaces may be slippery. Avoid contact with skin and eyes. See Section 8 of the SDS for Personal Protective Equipment. Keep out of reach of children.
Methods and material for containment and cleaning up:	Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section.
Environmental Precautions:	Do not allow runoff to sewer, waterway or ground.

7. Handling and storage

Precautions for safe handling:	Sensitivity to static discharge is not expected. Do not taste or swallow. Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities:	Store in tightly closed original container in a dry and cool place.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity Type Exposure Limit Values Source	
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Dibutyltin Dilaurate - as Sn	STEL	0.2 mg/m3	US. ACGIH Threshold Limit Values (03 2015)
	TWA	0.1 mg/m3	US. ACGIH Threshold Limit Values (03 2015)
	REL	0.1 mg/m3	US. NIOSH: Pocket Guide to Chemical
		011 11.9, 11.0	Hazards (2010)
	PEL	0.1 mg/m3	US. OSHA Table Z-1 Limits for Air
		5	Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	0.1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000)
		Ũ	(1989)
	TWA	0.1 mg/m3	US. Tennessee. OELs. Occupational Exposure
			Limits, Table Z1A (06 2008)
	TWA PEL	0.1 mg/m3	US. California Code of Regulations, Title 8,
		-	Section 5155. Airborne Contaminants (01
			2015)
	STEL	0.2 mg/m3	US. California Code of Regulations, Title 8,
			Section 5155. Airborne Contaminants (01
			2015)
Dibutyltin Dilaurate -	ANESL	0.1 µg/m3	US. Texas. Effects Screening Levels (Texas
Particulate.			Commission on Environmental Quality) (11
			2016)
	ST ESL	1 µg/m3	US. Texas. Effects Screening Levels (Texas
			Commission on Environmental Quality) (11
			2016)

Appropriate Engineering	Provide eyewash station and safety shower. Use only with adequate
Controls	ventilation.

Individual protection measures, such as personal protective equipment

General information:	Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.
Eye/face protection:	Wear approved safety goggles. Face shield
Skin Protection Hand Protection:	Chemical resistant gloves
Other:	Wear suitable protective clothing and eye/face protection.
Respiratory Protection:	If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).
Hygiene measures:	Avoid contact with eyes, skin, and clothing. Observe good industrial hygiene practices. Wash hands after handling. When using do not eat, drink or smoke.
9. Physical and chemical properties	

MOMENTIVE inventing possibilities

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Appearance

Physical state:	liquid
Form:	liquid
Color:	Colorless
Odor:	Faint
Odor threshold:	No data available.
pH:	Not applicable
Melting point/freezing point:	Not applicable
Initial boiling point and boiling range:	205 °C (1.013 hPa) (other methods)
Flash Point:	191 °C (other methods)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explose	sive limits
Flammability limit - upper (%):	19.00 %(V)
Flammability limit - lower (%):	3.30 %(V)
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Heat of combustion:	No data available.
Vapor pressure:	Negligible
	Negligible No data available.
Vapor pressure:	
Vapor pressure: Vapor density:	No data available.
Vapor pressure: Vapor density: Density:	No data available. ca. 1.066 g/cm3 (25 °C)
Vapor pressure: Vapor density: Density: Relative density:	No data available. ca. 1.066 g/cm3 (25 °C)
Vapor pressure: Vapor density: Density: Relative density: Solubility(ies)	No data available. ca. 1.066 g/cm3 (25 °C) 1.28
Vapor pressure: Vapor density: Density: Relative density: Solubility(ies) Solubility in water:	No data available. ca. 1.066 g/cm3 (25 °C) 1.28 Slightly Soluble
Vapor pressure: Vapor density: Density: Relative density: Solubility(ies) Solubility in water: Solubility (other): Partition coefficient (n-octanol/water) Log	No data available. ca. 1.066 g/cm3 (25 °C) 1.28 Slightly Soluble No data available.
Vapor pressure: Vapor density: Density: Relative density: Solubility(ies) Solubility in water: Solubility (other): Partition coefficient (n-octanol/water) Log Pow:	No data available. ca. 1.066 g/cm3 (25 °C) 1.28 Slightly Soluble No data available. 4.44 ; pH 6.1 (OECD Test Guideline 107)
Vapor pressure: Vapor density: Density: Relative density: Solubility(ies) Solubility in water: Solubility (other): Partition coefficient (n-octanol/water) Log Pow: Auto-ignition temperature:	No data available. ca. 1.066 g/cm3 (25 °C) 1.28 Slightly Soluble No data available. 4.44 ; pH 6.1 (OECD Test Guideline 107) > 300 °C
Vapor pressure: Vapor density: Density: Relative density: Solubility(ies) Solubility in water: Solubility (other): Partition coefficient (n-octanol/water) Log Pow: Auto-ignition temperature: Decomposition temperature:	No data available. ca. 1.066 g/cm3 (25 °C) 1.28 Slightly Soluble No data available. 4.44 ; pH 6.1 (OECD Test Guideline 107) > 300 °C No data available.
Vapor pressure: Vapor density: Density: Relative density: Solubility(ies) Solubility in water: Solubility (other): Partition coefficient (n-octanol/water) Log Pow: Auto-ignition temperature: Decomposition temperature: SADT:	No data available. ca. 1.066 g/cm3 (25 °C) 1.28 Slightly Soluble No data available. 4.44 ; pH 6.1 (OECD Test Guideline 107) > 300 °C No data available. No data available.
Vapor pressure: Vapor density: Density: Relative density: Solubility(ies) Solubility in water: Solubility (other): Partition coefficient (n-octanol/water) Log Pow: Auto-ignition temperature: Decomposition temperature: SADT: Viscosity, dynamic:	No data available. ca. 1.066 g/cm3 (25 °C) 1.28 Slightly Soluble No data available. 4.44 ; pH 6.1 (OECD Test Guideline 107) > 300 °C No data available. No data available. No data available.

10. Stability and reactivity

Reactivity:	No dangerous reaction if used as recommended.	
Chemical Stability:	Material is stable under normal conditions.	
Possibility of hazardous reactions:	Hazardous polymerisation does not occur.	
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Conditions to avoid:	None known.	
Incompatible Materials:	None known.	
Hazardous Decomposition Products:	Carbon dioxide Carbon Monoxide. Tin fumes.	
11. Toxicological information		
Information on likely routes of ex	xposure	
Ingestion:	No data available.	
Inhalation:	No data available.	
Skin Contact:	No data available.	
Eye contact:	No data available.	
Symptoms related to the physica Ingestion:	I, chemical and toxicological characteristics No data available.	
Inhalation:	No data available.	
Skin Contact:	No data available.	
Eye contact:	No data available.	
Information on toxicological effects		
Acute toxicity (list all possible routes of exposure)		
Oral Product:	Not classified for acute toxicity based on available data.	
Specified substance(s):		

Dermal Product:	Not classified for acute toxicity based on available data.
Specified substance(s): Dibutyltin Dilaurate	LD 50 (Rat,): > 2,000 mg/kg
Inhalation Product:	Not classified for acute toxicity based on available data.
Specified substance(s): Dibutyltin Dilaurate	LC50 (Rat,): 10 mg/l

LD 50 (Rat, male and female): 2,071 mg/kg

Dibutyltin Dilaurate



Repeated dose toxicity Product:	No data available.	
Skin Corrosion/Irritation Product:	OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit): Cor	rosive
Serious Eye Damage/Eye Irritat Product:	ion (Rabbit): Irritating to eyes.	
Respiratory or Skin Sensitization Product:	n No data available.	
Carcinogenicity Product:	No data available.	
IARC Monographs on the No carcinogenic component	Evaluation of Carcinogenic Risks to Humans: s identified	
US. National Toxicology F No carcinogenic component	Program (NTP) Report on Carcinogens: s identified	
US. OSHA Specifically Re No carcinogenic component	gulated Substances (29 CFR 1910.1001-1050): s identified	
Germ Cell Mutagenicity		
In vitro Product:	No data available.	
In vivo Product:	No data available.	
Reproductive toxicity Product:	No data available.	
Specific Target Organ Toxicity Product:	- Single Exposure No data available.	
Specific Target Organ Toxicity Product:	- Repeated Exposure No data available.	
Target Organs Specific Target Organ Toxicity Specific Target Organ Toxicity	 / - Single Exposure: thymus / - Repeated Exposure: thymus 	
Aspiration Hazard Product:	No data available.	
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Other effects:	Contains dibutyl tin dilaurate which may cause birth defects and reproductive effects based on animal data. In animal studies with repea oral application of dibutyl tin compounds toxic effects were observed or liver, bile duct, brain and immune system.	
12. Ecological information		
Ecotoxicity:		
Acute hazards to the aquatic	environment:	
Fish Product:	No data available.	
Aquatic Invertebrates Product:	No data available.	
Specified substance(s): DibutyItin Dilaurate	EC50 (Daphnia magna, 48 h): < 0.463 mg/l Fresh water	
Chronic hazards to the aquati	ic environment:	
Fish Product:	No data available.	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	No data available.	
Specified substance(s): DibutyItin Dilaurate	23 % (39 d) The product is not readily biodegradable.	
BOD/COD Ratio Product:	No data available.	
Bioaccumulative potential Bioconcentration Factor (B0 Product:	CF) No data available.	
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Partition Coefficient n-octa Product:	nol / water (log Kow) Log Kow: 4.44 20.8 °C (OECD Test Guideline 107)
Mobility in soil:	No data available.
Known or predicted distribution Dibutyltin Dilaurate	ution to environmental compartments No data available.
Other adverse effects:	No data available.
13. Disposal considerations	
General information:	See Section 8 for information on appropriate personal protective equipment. The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the ground.
Disposal instructions:	Disposal should be made in accordance with federal, state and local regulations.
Contaminated Packaging:	Dispose of as unused product.
14. Transport information	
DOT	
UN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s):	UN 1760 Corrosive liquids, n.o.s.(DibutyItin Dilaurate) 8 8
Packing Group: Marine Pollutant:	III Yes
IMDG UN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): EmS No.: Packing Group:	UN 1760 CORROSIVE LIQUID, N.O.S.(DibutyItin Dilaurate) 8 8 F-A, S-B III
Marine Pollutant: Limited quantity	lii Yes 5.00L
Excepted quantity	E1
ΙΑΤΑ	

SDS_US



Transport Hazard Class(es): Class: 8 Label(s): 8 Packing Group: Ш Cargo aircraft only Packing 856 Instructions: Passenger and cargo aircraft 856 Packing Instructions: Limited quantity: 1.00L Packing Instructions: Y841 Excepted quantity E1 Environmental Hazards: Environmentally hazardous Marine Pollutant: Yes Special precautions for user: This substance/preparation meets the criteria of a Marine Pollutant (see IMDG paragraph 2.9.3.3) but is not identified in the IMDG Code (Marpol list). As such, substance/preparation shall be transported as a marine pollutant in accordance with the IMDG code. This product is considered hazardous for transportation. Momentive Performance Materials ships this material under Limited Quantity or Consumer Commodity provisions of the transport regulations.

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15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Specific target organ toxicity (single or repeated exposure) Skin Corrosion or Irritation Serious eye damage or eye irritation Respiratory or Skin Sensitization Germ Cell Mutagenicity Reproductive toxicity

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.



SARA 304 Emergency Release Notification None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

Chemical IdentityThreshold Planning QuantityDibutyltin Dilaurate10000 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity Dibutyltin Dilaurate

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

Chemical Identity

Dibutyltin Dilaurate



Inventory Status:

Australia AICS:	On or in compliance with the	Remarks: None.
Australia Alos.	inventory	Remarks. None.
Canada DSL Inventory List:	On or in compliance with the inventory	Remarks: None.
EINECS, ELINCS or NLP:	On or in compliance with the inventory	Remarks: None.
Japan (ENCS) List:	On or in compliance with the inventory	Remarks: None.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory	Remarks: None.
Canada NDSL Inventory:	Not in compliance with the inventory.	Remarks: None.
Philippines PICCS:	On or in compliance with the inventory	Remarks: None.
US TSCA Inventory:	On or in compliance with the inventory	Remarks: None.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory	Remarks: None.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	Remarks: None.
REACH:	If purchased from Momentive Performance Materials GmbH in Leverkusen, Germany, all substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent monomers and other reactants.	Remarks: None.

16.Other information, including date of preparation or last revision

HMIS Hazard ID

Health	*	4
Flammability		1
Physical Hazards		0
PERSONAL PROTECTION	ON	

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect



Issue Date:	07/27/2018
Revision Date:	No data available.
Version #:	2.1
Further Information:	No data available.
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