

# SAFETY DATA SHEET

1. Identification		
Product identifier: RTV88		
Other means of identification Synonyms:		cone Rubber Compound
Recommended use and restri Recommended use: Silicon Restrictions on use: Not kn	e El	astomer
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	Not classified	
Label Elements		
Hazard Symbol:	No symbol	
Signal Word:	No signal word.	
Hazard Statement:	Not applicable	
Precautionary Statements	Not applicable	
Other hazards which do not result in GHS classification:	None.	
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# 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*	Notes
Red iron oxide	1309-37-1	20 - <50%	# This substance has workplace exposure limit(s).
Kieselguhr, soda ash flux- calcined	68855-54-9	10 - <20%	# This substance has workplace exposure limit(s).
Silicic acid, ethyl ester	11099-06-2	1 - <5%	# This substance has workplace exposure limit(s).
(1) QUARTZ	14808-60-7	0.1 - <1%	# This substance has workplace exposure limit(s).

\* 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:	DO NOT induce vomiting. Get medical attention immediately. Do not give victim anything to drink if he is unconscious. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Inhalation:	Move into fresh air and keep at rest. Get medical attention if symptoms occur.
Skin Contact:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if symptoms occur.
Eye contact:	Get medical attention if symptoms occur. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.
Most important symptom	s/effects, acute and delayed
Symptoms:	None known.
Hazards:	No data available.

## Indication of immediate medical attention and special treatment needed

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# **RTV88**

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.
Suitable (and unsuitable) extingu	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. Oxides of silicon. 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:	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	6. Accidental release measures		
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.		
<b>Environmental Precautions:</b>	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. Do not get in eyes, on skin, on clothing. Use personal protective equipment as required. Wash hands after handling.
Conditions for safe storage, including any incompatibilities:	Keep container closed. Keep away from sources of ignition - No smoking. Use original container or packaging of similar material of construction

# 8. Exposure controls/personal protection

# **Control Parameters**

Occupational Ex	posure Limits
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Chemical Identity	Туре	Exposure Limit Values	Source
Red iron oxide - Respirable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2015)
Red iron oxide - Dust and fume as Fe	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Red iron oxide - Fume.	PEL	10 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	10 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	10 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA PEL	5 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)
Red iron oxide - Total dust.	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Red iron oxide - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Red iron oxide - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Red iron oxide	IDLH	2,500 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
Kieselguhr, soda ash flux- calcined	REL	6 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Kieselguhr, soda ash flux- calcined - Respirable dust.	OSHA_AC T	0.025 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
	TWA	0.05 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
Kieselguhr, soda ash flux- calcined - Particulate.	ST ESL	27 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	2 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Kieselguhr, soda ash flux- calcined	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000)

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			(2000)
	IDLH	3,000 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
(1) QUARTZ - Respirable fraction.	TWA	0.025 mg/m3	US. ACGIH Threshold Limit Values (03 2015)
(1) QUARTZ - Respirable dust.	REL	0.05 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
(1) QUARTZ - Respirable dust.	TWA	0.05 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
	OSHA_AC T	0.025 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
(1) QUARTZ - Respirable dust.	PEL	0.05 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)
	TWA	0.1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	0.1 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
(1) QUARTZ - Particulate.	ST ESL	14 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	0.27 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
(1) QUARTZ - Respirable dust.	TWA PEL	0.05 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (10 2016)
(1) QUARTZ - Respirable.	TWA	2.4 millions of particles per cubic foot of air	US. ÓSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
(1) QUARTZ	IDLH	50 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)

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

Eye wash facilities and emergency shower must be available when handling this product. Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

#### Individual protection measures, such as personal protective equipment

Gener	al information:	General (mechanical) room ventilation is expected to be satisfactory if handled at low temperatures or in covered equipment.
Eye/fa	ace protection:	Safety glasses with side shields
Skin F	Protection Hand Protection:	Chemical resistant gloves
	Other:	Wear suitable protective clothing and eye/face protection.



Respiratory Protection:	Use only in well-ventilated areas. 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:	Observe good industrial hygiene practices. Wash hands after handling. When using do not eat, drink or smoke. Provide adequate ventilation.

# 9. Physical and chemical properties

Appearance		
Physical state:	liquid	
Form:	liquid	
Color:	Red	
Odor:	Faint	
Odor threshold:	No data available.	
pH:	No data available.	
Melting point/freezing point:	No data available.	
Initial boiling point and boiling range:	> 260 °C	
Flash Point:	> 100 °C (Closed Cup)	
Evaporation rate:	No data available.	
Flammability (solid, gas):	No data available.	
Upper/lower limit on flammability or explosive	ve limits	
Flammability limit - upper (%):	No data available.	
Flammability limit - lower (%):	No data available.	
Explosive limit - upper (%):	No data available.	
Explosive limit - lower (%):	No data available.	
Heat of combustion:	No data available.	
Vapor pressure:	No data available.	
Vapor density:	No data available.	
Density:	ca. 1.5 g/cm3	
Relative density:	ca. 1.5	
Solubility(ies)		
Solubility in water:	Insoluble	
Solubility (other):	No data available.	
Partition coefficient (n-octanol/water) Log Pow:	No data available.	
Auto-ignition temperature:	No data available.	
Decomposition temperature:	To avoid thermal decomposition, do not overheat.	
SADT: SDS_US	No data available.	



Viscosity, dynamic:	No data available.
Viscosity, kinematic:	No data available.
VOC:	20 g/l ;

# 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.
Conditions to avoid:	None known.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced. 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 physical, chemical and toxicological characteristics Ingestion: 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:	ATEmix: 43,478.26 mg/kg	

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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 Irritati Product:	on No data available.	
Respiratory or Skin Sensitizatio Product:	n No data available.	
Carcinogenicity Product:	No data available.	
IARC Monographs on the	Evaluation of Carcinogenic Risks to Humans:	
No carcinogenic components identified <b>US. National Toxicology Program (NTP) Report on Carcinogens:</b> Kieselguhr, soda Known To Be Human Carcinogen.		
ash flux-calcined (1) QUARTZ	Known To Be Human Carcinogen.	
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified		
Germ Cell Mutagenicity		
In vitro Product:	No data available.	
In vivo Product:	No data available.	
Reproductive toxicity Product:	No data available.	
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Specific Target Organ Toxicity - Product:	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.	
Chronic hazards to the aquati	c 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		0/40
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Bioconcentration Factor (Bioconcentration Fact	CF) No data available.
Partition Coefficient n-octar	
Product:	No data available.
Mobility in soil:	No data available.
Known or predicted distribu	ution to environmental compartments
Red iron oxide	No data available.
Kieselguhr, soda ash flux- calcined	No data available.
Silicic acid, ethyl ester	No data available.
(1) QUARTZ	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.

Not regulated.

## IMDG

Not regulated.

# ΙΑΤΑ

Not regulated.

Special precautions for user:	This product is not regarded as dangerous goods according to the
	national and international regulations on the transport of
	dangerous goods.

#### 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** 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 Chemical

Chemical Identity	Threshold Planning Quantity
Red iron oxide	10000 lbs
Kieselguhr, soda ash flux- calcined	10000 lbs
Silicic acid, ethyl ester	10000 lbs
(1) QUARTZ	10000 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 requiring a warning under CA Prop 65.

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

#### **Chemical Identity**

Siloxanes and Silicones, di-Me hydroxy terminated Red iron oxide Kieselguhr, soda ash flux-calcined Castor oil, hydrogenated Silicic acid, ethyl ester



## (1) QUARTZ

## **US. Massachusetts RTK - Substance List**

Chemical Identity Red iron oxide (1) QUARTZ

#### US. Pennsylvania RTK - Hazardous Substances

Chemical Identity Red iron oxide

Kieselguhr, soda ash flux-calcined Silicic acid, ethyl ester

### US. Rhode Island RTK

## **Chemical Identity**

Red iron oxide

#### **Inventory Status:**

Australia AICS:	y (positive listing)	Remarks: None.
Canada DSL Inventory List:	y (positive listing)	Remarks: None.
EU EINECS List:	y (positive listing)	Remarks: None.
Japan (ENCS) List:	y (positive listing)	Remarks: None.
China Inventory of Existing	y (positive listing)	Remarks: None.
Chemical Substances:		
Korea Existing Chemicals Inv.	y (positive listing)	Remarks: None.
(KECI):		
Canada NDSL Inventory:	n (Negative listing)	Remarks: None.
Philippines PICCS:	y (positive listing)	Remarks: None.
US TSCA Inventory:	y (positive listing)	Remarks: None.
New Zealand Inventory of	y (positive listing)	Remarks: None.
Chemicals:		
Taiwan Chemical Substance	y (positive listing)	Remarks: None.
Inventory:		

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

#### HMIS Hazard ID

Health	0
Flammability	1
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:

06/25/2019

SDS\_US



Revision Date:	No data available.
Version #:	3.1
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.

## **Further Information**

The information provided in this Safety Data Sheet is correct to the best ofour knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safehandling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or 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:	Tin	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**

ru 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 <sup>1.</sup>
Specific Target Organ Toxicity - Repeated Exposure	Category 1 <sup>2.</sup>

# Target Organs

- 1. thymus
- 2. thymus

# Label Elements



Hazard Symbol:	
Signal Word:	Danger
Hazard Statement:	<ul> <li>H314; Causes severe skin burns and eye damage.</li> <li>H317; May cause an allergic skin reaction.</li> <li>H341; Suspected of causing genetic defects.</li> <li>H360; May damage fertility or the unborn child.</li> <li>H370; Causes damage to organs.</li> <li>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></li> </ul>
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.
er hazards which do not It in GHS classification:	None.

# 3. Composition/information on ingredients



## Substances

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Chomical Identity	CAS number	Contant in percent (%) *
Chemical Identity	77-58-7	Content in percent (%)*
Dibutyltin Dilaurate * All concentrations are pe		50 - <100% gredient is a gas. Gas concentrations are in percent by volume.
	, ,	
4. First-aid measures		
Ingestion:		d, do NOT induce vomiting. Give a glass of water. Call a provision control center immediately.
Inhalation:	Move to fre medical atte	esh air. If respiratory problems, artificial respiration/oxygen. Get ention.
Skin Contact:	remove clo	romptly and flush contaminated skin with water. Promptly thing if soaked through and flush skin with water. Wash ed clothing before reuse. Call a physician or poison control ediately.
Eye contact:		y flush with plenty of water for at least 15 minutes. If easy to do, ntact lenses. Call a physician or poison control center y.
Most important symptom	s/effects, acute and	delayed
Symptoms:	contraindica blood press with asphys vapors or fu after a 6-8 l chest, air h may include Hemoptysis	ct is a corrosive material. Gastric lavage or emesis may be ated. Ingestion or inhalation may result in shock, decreased sure, pulmonary edema, CNS depression, edema of the glottis kia, and perforation of the esophagus or stomach. Inhalation of umes may result in coughing, choking, and CNS effects followed hour latent period by pulmonary edema with tightness in the unger, dizziness, frothy sputum, and cyanosis. Physical finding e moist rales, low blood pressure, and high pulse pressure. s and dyspnea may continue for several weeks. Prednisolone e esophageal stricture formation.
Hazards:	No data ava	ailable.
Indication of immediate m	edical attention and	d special treatment needed
Treatment:	Treatment i	is symptomatic and supportive.
5. Fire-fighting measure	S	
General Fire Hazards:	worn in cas hazards of	ned breathing apparatus and full protective clothing must be se of fire. Use standard firefighting procedures and consider the other involved materials. Prevent runoff from fire control or n 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 and	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 measures			
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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	OTE:		
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
		-	Hazards (2010)
	PEL	0.1 mg/m3	US. OSHA Table Z-1 Limits for Air
		-	Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	0.1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000)
			(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 -	AN ESL	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

DBT

- + F	
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 explosive	ve 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.
Venerezeer	Nastisiala
Vapor pressure:	Negligible
Vapor density:	No data available.
Density:	ca. 1.066 g/cm3 (25 °C)
Relative density:	1.28
Solubility(ies)	
Solubility in water:	Slightly Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water) Log Pow:	4.44 ; pH 6.1 (OECD Test Guideline 107 )
Auto-ignition temperature:	> 300 °C
Decomposition temperature:	No data available.
SADT:	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	No data available.
VOC:	27 g/l ;

# 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 exposure Ingestion: No data available.	
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Symptoms related to the physic 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 effects	
Acute toxicity (list all possible routes of exposure)	
Oral Product:	Not classified for acute toxicity based on available data.
Specified substance(s): Dibutyltin Dilaurate	LD 50 (Rat, male and female): 2,071 mg/kg
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



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:	on No data available.	
Carcinogenicity Product:	No data available.	
IARC Monographs on the No carcinogenic componen	Evaluation of Carcinogenic Risks to Humans: ts identified	
US. National Toxicology F No carcinogenic componen	Program (NTP) Report on Carcinogens: ts identified	
US. OSHA Specifically Re No carcinogenic componen	gulated Substances (29 CFR 1910.1001-1050): ts 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.	
<b>Target Organs</b> Specific Target Organ Toxicit Specific Target Organ Toxicit	y - Single Exposure: thymus y - 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 repeated oral application of dibutyl tin compounds toxic effects were observed on the 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): Dibutyltin Dilaurate	EC50 (Daphnia magna, 48 h): < 0.463 mg/l Fresh water	
Chronic hazards to the aquat	tic 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): Dibutyltin Dilaurate	23 % (39 d) The product is not readily biodegradable.	
BOD/COD Ratio Product:	No data available.	
Bioaccumulative potential Bioconcentration Factor (B Product:	SCF) 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): Packing Group: Marine Pollutant:	UN 1760 Corrosive liquids, n.o.s.(Dibutyltin Dilaurate) 8 8 III Yes
IMDG UN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): EmS No.: Packing Group: Marine Pollutant: Limited quantity Excepted quantity	UN 1760 CORROSIVE LIQUID, N.O.S.(Dibutyltin Dilaurate) 8 8 F-A, S-B III Yes 5.00L E1
IATA UN Number: Proper Shipping Name: SDS_US	UN 1760 Corrosive liquid, n.o.s.(Dibutyltin Dilaurate) 10/14



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 E1 Excepted quantity **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.

#### 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.

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DBT



#### 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 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 PROTECTI	ON	

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

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