

**RTV21  
Tin Catalyst (DBT)****1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Manufacturer Name:** Momentive performance material  
260 Hudson River Rd  
Waterford NY 12188

**Revised:** 07/10/2012  
**Prepared by** Product Regulatory Compliance  
**CHEMTREC** 1-800-424-9300  
**MSDS Contact** 1-888-443-9466  
**Information** 4information@momentive.com

**Chemical Family/Use:** Catalyst

**Formula:** Catalyst

**HMIS**

Health: 2 Flammability: 1 Reactivity: 0

**NFPA**

Health: 2 Flammability: 1 Reactivity: 0

**2. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

WARNING! Causes skin and eye irritation. Harmful: danger of serious damage to health by prolonged exposure if swallowed.

**Form:** Liquid

**Form:** Colorless

**Odor:** Faint

**POTENTIAL HEALTH EFFECTS****INGESTION**

Affects: - mouth, throat, esophagus and stomach Causes the following effects: - discomfort or pain in the mouth, throat, chest and abdomen

**SKIN**

Causes the following effects: - discomfort or pain - swelling

**INHALATION**

Vapors given off by heated product may be harmful. May cause irritation to the respiratory system.

**EYES**

Causes the following effects: - discomfort or pain - excess blinking - tear production - marked excess redness of the conjunctivae - swelling of the conjunctivae

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Tin Catalyst (DBT)****MEDICAL CONDITIONS AGGRAVATED**

Central nervous system disorders.

**SUBCHRONIC (TARGET ORGAN )**

Central nervous system.

**CHRONIC EFFECTS / CARCINOGENICITY**

This product or one of its ingredients present at 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

**ROUTES OF EXPOSURE**

Dermal; Oral; Eye

**3. COMPOSITION/INFORMATION ON INGREDIENTS****PRODUCT COMPOSITION****CAS-No.****WGT. %****A. HAZARDOUS**

Dibutyltin Dilaurate

77-58-7

60 - 100 %

**B. NON-HAZARDOUS****4. FIRST AID MEASURES****SKIN**

Wash area with soap and water. Wash contaminated clothing before reuse.

**INHALATION**

Move to fresh air. Get medical attention if symptoms persist.

**5. FIRE-FIGHTING MEASURES****FLASH POINT:  
METHOD**+/- 191 °C; 376 °F  
other methods

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**IGNITION TEMPERATURE:** > 300 °C; 572 °F  
**FLAMMABLE LIMITS LEL:** 3.30 %(V).  
**FLAMMABLE LIMITS UEL:** 19.00 %(V).

**SENSITIVITY TO MECHANICAL IMPACT:** No

**SENSITIVITY TO STATIC DISCHARGE**

Sensitivity to static discharge is not expected., Do not taste or swallow., Wash thoroughly after handling.

**EXTINGUISHING MEDIA**

All standard extinguishing agents are suitable.

**SPECIAL FIRE FIGHTING PROCEDURES**

Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

**6. ACCIDENTAL RELEASE MEASURES****ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED**

Wipe, scrape or soak up in an inert material and put in a container for disposal. Warn other workers of spill. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section. Avoid runoff to natural waters a component is known to be toxic to marine life.

**7. HANDLING AND STORAGE****PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Use only in well-ventilated areas. Avoid contact with skin and eyes. Avoid inhalation of vapors and spray mists. Keep container closed. Wash hands before eating, drinking, or smoking. Keep out of reach of children.

**STORAGE**

Store in tightly closed original container in a dry and cool place.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****ENGINEERING CONTROLS**

Eye wash facilities and emergency shower must be available when handling this product.

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**RESPIRATORY PROTECTION**

None known.

**OTHER PROTECTIVE EQUIPMENT**

None known.

**Exposure Guidelines**

<b>Component</b>	<b>CAS-No.</b>	<b>Source</b>	<b>Value</b>
Dibutyltin Dilaurate	77-58-7	ACGIH, TWA	0.1 mg/m3
Dibutyltin Dilaurate	77-58-7	ACGIH, STEL	0.2 mg/m3
Dibutyltin Dilaurate	77-58-7	ACGIH, SKIN_DES	Can be absorbed through the skin.
Dibutyltin Dilaurate	77-58-7	OSHA Z1, PEL	0.1 mg/m3
Dibutyltin Dilaurate	77-58-7	ACGIH, TWA	2 mg/m3
Dibutyltin Dilaurate	77-58-7	OSHA Z1, PEL	2 mg/m3

Absence of values indicates none found

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average; INTL REL - Internal Recommended Exposure Limit

OSHA revoked the Final Rule Limits of January 19, 1989 in response to the 11th Circuit Court of Appeals decision (AFL-CIO v. OSHA) effective June 30, 1993. See 29 CFR 1910.1000 (58 FR 35338).

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>BOILING POINT (°C):</b>	205 °C; 401 °F
<b>VAPOR PRESSURE (20 C) (MM HG):</b>	Negligible
<b>VAPOR DENSITY (AIR=1):</b>	No data available.
<b>FREEZING POINT:</b>	Not applicable
<b>PHYSICAL STATE:</b>	Liquid
<b>ODOR:</b>	Faint
<b>Color:</b>	Colorless
<b>EVAPORATION RATE (BUTYL ACETATE=1):</b>	No data available.
<b>SPECIFIC GRAVITY:</b>	1.28
<b>DENSITY:</b>	ca. 1.280 g/cm3
<b>ACID / ALKALINITY (MEQ/G):</b>	No data available.
<b>pH:</b>	Not applicable
<b>SOLUBILITY IN WATER (20 C):</b>	Slightly Soluble
<b>SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):</b>	No data available.
<b>VOC EXCL. H2O &amp; EXEMPTS (G/L):</b>	27 g/l

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**10. STABILITY AND REACTIVITY****STABILITY**

Stable

**HAZARDOUS POLYMERIZATION.**

Hazardous polymerisation does not occur.

**HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS**

Carbon dioxide; Carbon Monoxide.; Formaldehyde.; Tin fumes.

**INCOMPATIBLE MATERIALS**

None known.

**CONDITIONS TO AVOID**

None known.

**11. TOXICOLOGICAL INFORMATION****ACUTE ORAL**

Remarks: Not applicable

**ACUTE DERMAL**

Remarks: Not applicable

**ACUTE INHALATION**

Remarks: Not applicable

**OTHER**

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.

**SENSITIZATION**

No data available.

**SKIN IRRITATION.**

Species: Rabbit; Irritant.

**EYE IRRITATION**

Species: Rabbit ; Result: Irritating to eyes.

**MUTAGENICITY**

No data available.

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**OTHER EFFECTS OF OVEREXPOSURE**

None known.

**12. ECOLOGICAL INFORMATION****ECOTOXICITY**

No data available.

**DISTRIBUTION**

No data available.

**CHEMICAL FATE**

No data available.

**13. DISPOSAL CONSIDERATIONS****DISPOSAL METHODS**

Disposal should be made in accordance with federal, state and local regulations.

**14. TRANSPORT INFORMATION**

**DOT SHIPPING NAME:** Environmentally hazardous substance, liquid, n.o.s., LTD  
QTY(DIBUTYLTIN DILAURATE)  
**DOT HAZARD CLASS:** 9  
**DOT LABEL (S):** 9  
**UN/NA NUMBER:** UN3082  
**PACKING GROUP:** III

**IMDG SHIPPING NAME:** Environmentally hazardous substance, liquid, n.o.s., LTD  
QTY(DIBUTYLTIN DILAURATE)  
**CLASS:** 9  
**IMDG-Labels:** 9  
**UN NUMBER:** UN3082  
**PACKING GROUP:** III  
**EmS No.:** F-A; S-F

**Further Information:** 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.

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Tin Catalyst (DBT)****15. REGULATORY INFORMATION****Inventories**

Australia Inventory of Chemical Substances (AICS)	y (positive listing)
Canada DSL Inventory	y (positive listing)
EU list of existing chemical substances	y (positive listing)
Japan Inventory of Existing & New Chemical Substances (ENCS)	y (positive listing)
China Inventory of Existing Chemical Substances	y (positive listing)
Korea Existing Chemicals Inventory (KECI)	y (positive listing)
Canada NDSL Inventory	n (Negative listing)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	y (positive listing)
TSCA list	y (positive listing)
New Zealand Inventory of Chemicals	y (positive listing)
Japan Industrial Safety & Health Law (ISHL) Listing	y (positive listing)

For inventories that are marked as quantity restricted or special cases, please contact Momentive.

**US Regulatory Information****SARA (311,312) HAZARD CLASS**

Acute Health Hazard

**CALIFORNIA PROPOSITION 65**

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

**Canadian Regulatory Information****WHMIS CLASSIFICATION**

D1B - Toxic Material Causing Immediate and Serious Toxic Effects

D2B - Toxic Material Causing Other Toxic Effects

**16. OTHER INFORMATION****OTHER**

C = ceiling limit      NEGL = negligible

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EST = estimated      NF = none found  
NA = not applicable      UNKN = unknown  
NE = none established      REC = recommended  
ND = none determined      V = recommended by vendor  
SKN = skin      TS = trade secret  
R = recommended      MST = mist  
NT = not tested      STEL = short term exposure limit  
ppm = parts per million      ppb = parts per billion

By-product= reaction by-product, TSCA inventory status not required under 40 CFR part 720.30(h-2).  
, These data are offered in good faith as typical values and not as product specifications. No warranty,  
either expressed or implied, is made. The recommended industrial hygiene and safe handling  
procedures are believed to be generally applicable. However, each user should review these  
recommendations in the specific context of the intended use and determine whether they are  
appropriate.



**RTV21  
Silicone Rubber Compound****1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Manufacturer Name:** Momentive performance material  
260 Hudson River Rd  
Waterford NY 12188

**Revised:** 02/07/2012  
**Prepared by** PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS  
**CHEMTREC** 1-800-424-9300

**Chemical Family/Use:** Silicone

**HMIS**

Health: 1 Flammability: 0 Reactivity: 0

**NFPA**

Health: 1 Flammability: 0 Reactivity: 0

**2. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

CAUTION! May cause eye irritation. Attention: Not for injection into humans.

**Form:** Liquid**Color:** Red**Odor:** Faint**POTENTIAL HEALTH EFFECTS****INGESTION**

May be harmful if swallowed.

**SKIN**

Skin irritation is possible after contact with the uncured product.

**INHALATION**

None known.

**EYES**

May cause eye irritation.

**MEDICAL CONDITIONS AGGRAVATED**

None known.

**SUBCHRONIC (TARGET ORGAN )**

Respiratory System

**CHRONIC EFFECTS / CARCINOGENICITY**

This product or one of its ingredients present at 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

**RTV21  
Silicone Rubber Compound**

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**ROUTES OF EXPOSURE**

Dermal

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>PRODUCT COMPOSITION</u>	<u>CAS-No.</u>	<u>WGT. %</u>
<b><u>A. HAZARDOUS</u></b>		
Silicic acid, ethyl ester	11099-06-2	1 - 5 %
<b><u>B. NON-HAZARDOUS</u></b>		
Siloxanes and Silicones, di-Me hydroxy terminated	70131-67-8	60 - 100 %
Calcium Carbonate	471-34-1	10 - 30 %
Zinc oxide	1314-13-2	10 - 30 %
Diiron trioxide	1309-37-1	1 - 5 %

**4. FIRST AID MEASURES****INGESTION**

None known.

**SKIN**

Wash area with soap and water.

**INHALATION**

None known.

**EYES.**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**NOTE TO PHYSICIAN**

None known.

**RTV21  
Silicone Rubber Compound****5. FIRE-FIGHTING MEASURES**

**FLASH POINT:** > 100 °C; 212 °F  
**FLAMMABLE LIMITS LEL:** No data available.  
**FLAMMABLE LIMITS UEL:** No data available.

**SENSITIVITY TO MECHANICAL IMPACT:** No

**SENSITIVITY TO STATIC DISCHARGE**  
Sensitivity to static discharge is not expected.

**EXTINGUISHING MEDIA**  
All standard extinguishing agents are suitable.

**SPECIAL FIRE FIGHTING PROCEDURES**  
Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

**6. ACCIDENTAL RELEASE MEASURES**

**ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED**  
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.

**7. HANDLING AND STORAGE**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**  
Keep container closed. Avoid inhalation of vapors and spray mists. Avoid contact with skin and eyes. Use only in well-ventilated areas. Keep out of reach of children.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**ENGINEERING CONTROLS**  
Eye wash facilities and emergency shower must be available when handling this product.; Use only in well-ventilated areas.

**RESPIRATORY PROTECTION**  
If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved

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Silicone Rubber Compound**

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).

**PROTECTIVE GLOVES**

Rubber gloves are recommended.

**EYE AND FACE PROTECTION**

Safety glasses with side shields

**OTHER PROTECTIVE EQUIPMENT**

None known.

**Exposure Guidelines**

<u>Component</u>	<u>CAS-No.</u>	<u>Source</u>	<u>Value</u>
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Absence of values indicates none found

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average; INTL REL - Internal Recommended Exposure Limit

OSHA revoked the Final Rule Limits of January 19, 1989 in response to the 11th Circuit Court of Appeals decision (AFL-CIO v. OSHA) effective June 30, 1993. See 29 CFR 1910.1000 (58 FR 35338).

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>BOILING POINT (°C):</b>	No data available.
<b>VAPOR PRESSURE:</b>	No data available.
<b>VAPOR DENSITY (AIR=1):</b>	No data available.
<b>FREEZING POINT:</b>	No data available.
<b>PHYSICAL STATE:</b>	Liquid
<b>ODOR:</b>	Faint
<b>Color:</b>	Red
<b>EVAPORATION RATE (BUTYL ACETATE=1):</b>	Not applicable
<b>SPECIFIC GRAVITY:</b>	ca. 1.3
<b>DENSITY:</b>	ca. 1,318 g/cm <sup>3</sup>
<b>ACID / ALKALINITY (MEQ/G):</b>	No data available.
<b>pH:</b>	No data available.
<b>SOLUBILITY IN WATER (20 C):</b>	Insoluble
<b>SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):</b>	No data available.
<b>VOC EXCL. H<sub>2</sub>O &amp; EXEMPTS (G/L):</b>	23 g/l

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Silicone Rubber Compound**

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**10. STABILITY AND REACTIVITY****HAZARDOUS POLYMERIZATION.**

Hazardous polymerisation does not occur.

**HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS**

Carbon dioxide; Silicon dioxide.; Formaldehyde.; This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees Fahrenheit (150'C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. A MSDS for formaldehyde is available from Momentive.

**INCOMPATIBLE MATERIALS**

None known.

**CONDITIONS TO AVOID**

None known.

**11. TOXICOLOGICAL INFORMATION****ACUTE ORAL**

Remarks: No data available.

**ACUTE DERMAL**

Remarks: No data available.

**ACUTE INHALATION**

Remarks: No data available.

**OTHER**

None.

**SENSITIZATION**

No data available.

**SKIN IRRITATION.**

No data available.

**EYE IRRITATION**

No data available.

**MUTAGENICITY**

No data available.

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**12. ECOLOGICAL INFORMATION****ECOTOXICITY**

No data available.

**DISTRIBUTION**

No data available.

**CHEMICAL FATE**

No data available.

**13. DISPOSAL CONSIDERATIONS****DISPOSAL METHODS**

Disposal should be made in accordance with federal, state and local regulations.

**14. TRANSPORT INFORMATION****Further Information:**

This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

**15. REGULATORY INFORMATION****Inventories**

Australia Inventory of Chemical Substances (AICS)	y (positive listing)
EU list of existing chemical substances	y (positive listing)
Japan Inventory of Existing & New Chemical Substances (ENCS)	y (positive listing)
China Inventory of Existing Chemical Substances	y (positive listing)
Korea Existing Chemicals Inventory (KECI)	y (positive listing)
Canada DSL Inventory	y (positive listing)
Canada NDSL Inventory	n (Negative listing)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	y (positive listing)

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TSCA list y (positive listing) On TSCA Inventory  
For inventories that are marked as quantity restricted or special cases, please contact Momentive.

**US Regulatory Information****SARA (311,312) HAZARD CLASS**

Acute Health Hazard

**SARA (313) CHEMICALS****CALIFORNIA PROPOSITION 65**

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

**Canadian Regulatory Information****WHMIS CLASSIFICATION**

D2B - Toxic Material Causing Other Toxic Effects

D2A - Very Toxic Material Causing Other Toxic Effects

**16. OTHER INFORMATION****OTHER**

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

,C = ceiling limit      NEGL = negligible  
EST = estimated      NF = none found  
NA = not applicable      UNKN = unknown  
NE = none established      REC = recommended  
ND = none determined      V = recommended by vendor  
SKN = skin      TS = trade secret  
R = recommended      MST = mist  
NT = not tested      STEL = short term exposure limit  
ppm = parts per million      ppb = parts per billion

By-product= reaction by-product, TSCA inventory status not required under 40 CFR part 720.30(h-2).