

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** BETA11-D1

**Other means of identification**

**Synonyms:** SILICONE CATALYST SOLUTION

**Recommended use and restriction on use**

**Recommended use: Restrictions on use:** Not known.

**Manufacturer/Importer/Distributor 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**

**Physical Hazards**

Flammable liquids Category 3

**Health Hazards**

Skin Corrosion/Irritation Category 2

Serious Eye Damage/Eye Irritation Category 1

Skin sensitizer Category 1

Germ Cell Mutagenicity Category 2

Toxic to reproduction Category 1B

Toxic to reproduction Category 1B

Specific Target Organ Toxicity -  
Single Exposure Category 1

Specific Target Organ Toxicity -  
Repeated Exposure Category 1

**BETA11-D1**

**Label Elements**

**Hazard Symbol:**



**Signal Word:** Danger

**Hazard Statement:** H226; Flammable liquid and vapor.  
H318; Causes serious eye damage.  
H315; Causes skin irritation.  
H317; May cause an allergic skin reaction.  
H360; May damage fertility or the unborn child.  
H341; Suspected of causing genetic defects.  
H370; Causes damage to organs.  
H372; Causes damage to organs through prolonged or repeated exposure.

**Precautionary Statements**

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye protection/face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof [electrical/ventilating/lighting/] equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Do not breathe vapors. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

**Response:** Get medical advice/attention if you feel unwell. IF exposed: Call a POISON CENTER/doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF ON SKIN: Wash with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

**Storage:** Store locked up. Store in a well-ventilated place. Keep cool.

**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.

**BETA11-D1**

**Other hazards which do not result in GHS classification:** None.

**3. Composition/information on ingredients**

**Mixtures**

Chemical Identity	CAS number	Content in percent (%)*	Notes
TETRA-N-PROPYL-SILICATE	682-01-9	30 - 60%	# This substance has workplace exposure limit(s).
Dibutyltin Dilaurate	77-58-7	10 - 30%	# This substance has workplace exposure limit(s).
N-Propanol	71-23-8	5 - 10%	# 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.

**4. First-aid measures**

**Ingestion:** If swallowed, do NOT induce vomiting. Give a glass of water.

**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/effects, acute and delayed**

**BETA11-D1**

**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 findings 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 medical attention and special treatment needed**

**Treatment:** Treatment is symptomatic and supportive.

**5. Fire-fighting measures**

**General Fire Hazards:** Do not use water jet as an extinguisher, as this will spread the fire. Use water spray to keep fire-exposed containers cool.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** All standard extinguishing agents are suitable.

**Unsuitable extinguishing media:** No data available.

**Specific hazards arising from the chemical:** Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Ground container and transfer equipment to eliminate static electric sparks.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Product may charge electrostatically during pouring or filling. All equipment used when handling the product must be grounded.

**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**

**BETA11-D1**

**Personal precautions,  
protective equipment and  
emergency procedures:**

Avoid contact with eyes, skin, and clothing. Keep out of reach of children.  
Attention: Not for injection into humans.

**Methods and material for  
containment and cleaning  
up:**

Warn other workers of spill. Wear proper protective equipment as specified in the protective equipment section. Wipe, scrape, or soak up in an inert material and put in a container intended for flammable materials for disposal.

**Notification Procedures:**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

**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 expected; material has a flash point below 200 F.

**Conditions for safe storage,  
including any  
incompatibilities:**

Keep container tightly closed. Recommended storage in original container below 30°C (85°F).

**8. Exposure controls/personal protection**

**Control Parameters**

**Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values	Source
Dibutyltin Dilaurate - as Sn	STEL	0.2 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (03 2015)
	TWA	0.1 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (03 2015)
	REL	0.1 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	0.1 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	0.1 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	0.1 mg/m <sup>3</sup>	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
Dibutyltin Dilaurate	ST ESL	1 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (03 2014)
	AN ESL	0.1 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (03 2014)
Dibutyltin Dilaurate - as Sn	TWA PEL	0.1 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)
	STEL	0.2 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)

**BETA11-D1**

**Appropriate Engineering Controls**

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

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

**General information:**

General (mechanical) room ventilation is expected to be satisfactory if handled at low temperatures or in covered equipment.

**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:**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

**9. Physical and chemical properties**

**Appearance**

**Physical state:**

liquid

**Form:**

liquid

**Color:**

Blue

**Odor:**

Alcohol

**Odor threshold:**

No data available.

**pH:**

not applicable

**Melting point/freezing point:**

No data available.

**Initial boiling point and boiling range:**

not applicable

**Flash Point:**

ca. 52 °C (PENSKEY-MARTENS)

**Evaporation rate:**

No data available.

**Flammability (solid, gas):**

No data available.

**Upper/lower limit on flammability or explosive limits**

**Flammability limit - upper (%):**

No data available.

**Flammability limit - lower (%):**

No data available.

**Explosive limit - upper (%):**

No data available.

**BETA11-D1**

<b>Explosive limit - lower (%):</b>	No data available.
<b>Heat of combustion:</b>	No data available.
<b>Vapor pressure:</b>	not applicable
<b>Vapor density:</b>	No data available.
<b>Density:</b>	0.95 g/cm <sup>3</sup>
<b>Relative density:</b>	1.00
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Reactive.
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water) Log Pow:</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>SADT:</b>	No data available.
<b>Viscosity, dynamic:</b>	No data available.
<b>Viscosity, kinematic:</b>	No data available.
<b>VOC:</b>	405 g/l ;

**10. Stability and reactivity**

<b>Reactivity:</b>	No data available.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	Hazardous polymerisation does not occur.
<b>Conditions to avoid:</b>	Keep away from sources of ignition - No smoking. Keep away from any contact with water.
<b>Incompatible Materials:</b>	Contact with water.
<b>Hazardous Decomposition Products:</b>	Carbon dioxide 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**

<b>Ingestion:</b>	No data available.
<b>Inhalation:</b>	No data available.

**BETA11-D1**

**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:** No data available.

**Specified substance(s):**

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

**Dermal**

**Product:** No data available.

**Specified substance(s):**

Dibutyltin Dilaurate LD 50 (Rat, ): > 2,000 mg/kg

**Inhalation**

**Product:** No data available.:

**Specified substance(s):**

Dibutyltin Dilaurate LC50 (Rat, ): 10 mg/l

**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 Sensitization**



**BETA11-D1**

**Product:** No data available.

**Carcinogenicity**

**Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**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.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Aspiration Hazard**

**Product:** No data available.

**Other effects:**

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. Contains dibutyl tin dilaurate which may cause birth defects and reproductive effects based on animal data.

**12. Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

SDS\_US

**BETA11-D1**

**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 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.

**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 (BCF)**

**Product:** No data available.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

**BETA11-D1**

TETRA-N-PROPYL-SILICATE	No data available.
Dibutyltin Dilaurate	No data available.
N-Propanol	No data available.

**Known or predicted distribution to environmental compartments**

polyvinylsiloxane	No data available.
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**Other adverse effects:** No data available.

**13. Disposal considerations**

**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 2924
UN Proper Shipping Name:	Flammable liquids, corrosive, n.o.s.(Dibutyltin Dilaurate, n-Propanol)
Transport Hazard Class(es)	
Class:	3
Label(s):	3, 8
Packing Group:	III
Marine Pollutant:	No

**IMDG**

UN Number:	UN 2924
UN Proper Shipping Name:	FLAMMABLE LIQUID, CORROSIVE, N.O.S.(Dibutyltin Dilaurate, n-Propanol)
Transport Hazard Class(es)	
Class:	3
Label(s):	3, 8
EmS No.:	F-E, S-C
Packing Group:	III
Marine Pollutant:	Yes
Limited quantity	5.00L
Excepted quantity	E1

**IATA**

UN Number:	UN 2924
Proper Shipping Name:	Flammable liquid, corrosive, n.o.s.(Dibutyltin Dilaurate, n-Propanol)
Transport Hazard Class(es):	
Class:	3

**BETA11-D1**

Label(s):	3, 8
Packing Group:	III
Cargo aircraft only Packing Instructions:	365
Passenger and cargo aircraft Packing Instructions:	365
Limited quantity:	1.00L
Packing Instructions:	Y342
Excepted quantity	E1
Environmental Hazards:	Environmentally hazardous
Marine Pollutant:	Yes
<b>Special precautions for user:</b>	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.

## 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):

<u>Chemical Identity</u>	<u>Reportable quantity</u>
N-Propanol	100 lbs.
None present or none present in regulated quantities.	

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Acute Health Hazard  
Fire Hazard  
Fire Hazard  
Immediate (Acute) Health Hazards  
Delayed (Chronic) Health Hazard

#### 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.

**BETA11-D1**

**SARA 311/312 Hazardous Chemical**

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
TETRA-N-PROPYL-SILICATE	10000 lbs
Dibutyltin Dilaurate	10000 lbs
N-Propanol	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 regulated by CA Prop 65 present.

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

Chemical Identity

polyvinylsiloxane  
TETRA-N-PROPYL-SILICATE  
Dibutyltin Dilaurate  
N-Propanol

**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**

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

**BETA11-D1**

**Inventory Status:**

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

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

**HMIS Hazard ID**

<b>Health</b>	*	4
<b>Flammability</b>		2
<b>Physical Hazards</b>		1
<b>PERSONAL PROTECTION</b>		

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

**Issue Date:** 09/01/2017

**Revision Date:** No data available.

**Version #:** 1.9

**Further Information:** No data available.

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**BETA11-D1**

**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 of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, 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.