

Revision Date: 03/09/2017

BETA16

SAFETY DATA SHEET

1. Identification

Product identifier: BETA16

Other means of identification

Synonyms: Silicone Catalyst

Recommended use and restriction on use

Recommended use: 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

General information **Telephone**

+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

Serious Eye Damage/Eye Irritation Category 2A Skin sensitizer Category 1 Category 1B Toxic to reproduction Category 11. Specific Target Organ Toxicity -

Repeated Exposure

Target Organs

1. Immune system

Label Elements

Hazard Symbol:

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Signal Word: Danger

Hazard Statement: Flammable liquid and vapor.

May cause an allergic skin reaction.

Causes serious eye irritation.

May damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Keep container tightly closed. Ground and bond

container and receiving equipment. Use explosion-proof

[electrical/ventilating/lighting/] equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Contaminated work clothing must 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 breathe dust or mists. Do not eat, drink or

smoke when using this product.

Response: If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Specific treatment (see this label). Wash contaminated

clothing before reuse. In case of fire: Use ... to extinguish.

Storage: Store in well-ventilated place. Keep cool. 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

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Mixtures

Chemical Identity CAS number Content in percent (Content in percent (%)*	%)* Notes	
Tetraethyl Silicate	78-10-4	10 - <20%	# This substance has workplace exposure limit(s).	
Dimethyltin neodecanoate	68928-76-7	5 - <10%	# This substance has workplace exposure limit(s).	
N-Propanol	71-23-8	0.1 - <1%	# This substance has workplace exposure limit(s).	
DIBUTYL TINOXIDE (48% as Tin)	818-08-6	0.1 - <0.3%	# 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: 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: Wash area with soap and water. Wash contaminated clothing before reuse.

If skin irritation occurs: Get medical advice/attention.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

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General Fire Hazards: No data available.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Foam. Carbon dioxide

Unsuitable extinguishing

media:

No data available.

Specific hazards arising from

the chemical:

No data available.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Wear appropriate personal protective equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use only in well-ventilated areas. Avoid contact with skin and eyes. Avoid inhalation of vapors and spray mists.

Methods and material for containment and cleaning

up:

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

personnel away.

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

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Chemical Identity	Туре	Exposure Limit Values 10 ppm		Source US. ACGIH Threshold Limit Values (03 2015)	
Tetraethyl Silicate	TWA				
,	REL	10 ppm	85 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)	
	PEL	100 ppm	850 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)	
	TWA	10 ppm	85 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)	
Dimethyltin neodecanoate - 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)	
N-Propanol	TWA	100 ppm		US. ACGIH Threshold Limit Values (03 2015)	
•	REL	200 ppm	500 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)	
	STEL	250 ppm	625 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)	
	PEL	200 ppm	500 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)	
	TWA	200 ppm	500 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)	
	STEL	250 ppm	625 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)	
DIBUTYL TINOXIDE (48% as Tin) - 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)	

Appropriate Engineering Controls

Use only in well-ventilated areas.

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: Face shield Monogoggles

Skin Protection

Hand Protection: No data available.

Other: Wear suitable protective clothing and eye/face protection.

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Respiratory Protection: Use only in well-ventilated areas. Use approved NIOSH respiratory

protection if TLV exceeded or overexposure is likely.

Hygiene measures: No data available.

9. Physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Red
Odor: ester like

Odor threshold:

pH:

not applicable

Melting point/freezing point:

No data available.

No data available.

not applicable

Flash Point: 41 °C (PENSKY-MARTENS)

Evaporation rate: > 1

Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

Vapor pressure: not applicable

Vapor density:No data available.Density:No data available.

Relative density: 1.00

Solubility(ies)

Solubility in water: Reactive.

Solubility (other): No data available.

Partition coefficient (n-octanol/water) Log No data available.

Pow:

Auto-ignition temperature:

Decomposition temperature:

No data available.

No data available.

No data available.

Viscosity, dynamic:

Viscosity, kinematic:

No data available.

No data available.

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VOC: 6 g/l

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

Hazardous polymerisation does not occur.

Conditions to avoid: Keep away from sources of ignition - No smoking. Keep away from any

contact with water.

Incompatible Materials: Contact with water. Reacts with water forming ethanol.

Hazardous Decomposition

Products:

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

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: not applicable

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Specified substance(s):

Dimethyltin LD 50 (Rat): 894 mg/kg

neodecanoate

DIBUTYL TINOXIDE LD 50 (Rat): 487 mg/kg

(48% as Tin)

Dermal

Product: not applicable

Specified substance(s):

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

neodecanoate

Inhalation

Product: not applicable

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

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

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Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s):

Dimethyltin Ames-Test (OECD 473): negative

neodecanoate

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.

Target Organs

Specific Target Organ Toxicity - Repeated Exposure: Immune system

Aspiration Hazard

Product: No data available.

Other effects: None known. No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Tetraethyl Silicate LC100 (No data available., 24 h): 9,000 mg/l LC50 (Brachydanio rerio, 96 h): > 245 mg/l

Aquatic Invertebrates

Product: No data available.

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Specified substance(s):

Tetraethyl Silicate EC50 (Blue Crab): 7,800 mg/l

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):

Tetraethyl Silicate 98 % (28 d, OECD-Guideline 301 A (DOC Die-Away Test)) 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

Tetraethyl Silicate

Dimethyltin neodecanoate

N-Propanol

DIBUTYL TINOXIDE (48%

No data available.

No data available.

No data available.

as Tin)

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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: No data available.

14. Transport information

DOT

Not regulated.

IMDG

Not regulated.

IATA

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. Although the flash point indicates that this product is combustible, the material does not support combustion as demonstrated by Sustained Combustibility Test, UN Manual of

Tests and Criteria, Part III, subsection 32.5.2

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):

Chemical Identity Reportable quantity

N-Propanol 100 lbs.

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Fire Hazard

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

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

Tetraethyl Silicate 10000 lbs
Dimethyltin neodecanoate N-Propanol 10000 lbs
DIBUTYL TINOXIDE (48% 10000 lbs

as Tin)

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

Polydimethylsiloxane Tetraethyl Silicate Dimethyltin neodecanoate Octyltriethoxysilane

SILICIC ACID, TETRAPROPYL ESTER, Silicic acid (H4SiO4),

tetrapropyl ester N-Propanol

DIBUTYL TINOXIDE (48% as Tin)

US. Massachusetts RTK - Substance List

Chemical Identity

Tetraethyl Silicate

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Tetraethyl Silicate

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US. Rhode Island RTK <u>Chemical Identity</u>

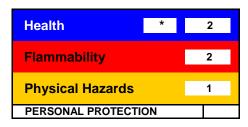
Tetraethyl Silicate

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:	Not 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.

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

HMIS Hazard ID



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

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Revision Date: No data available.

Version #: 2.0

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Further Information: No data available.

Disclaimer:

Notice to reader

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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.

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