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
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

<table>
<thead>
<tr>
<th>PRODUCT COMPOSITION</th>
<th>CAS-No.</th>
<th>WGT. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. HAZARDOUS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dibutyltin Dilaurate</td>
<td>77-58-7</td>
<td>60 - 100 %</td>
</tr>
<tr>
<td>B. NON-HAZARDOUS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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: +/- 191 °C; 376 °F
METHOD
other methods
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.
RTV560/DBT
Tin Catalyst (DBT)

RESPIRATORY PROTECTION
None known.

OTHER PROTECTIVE EQUIPMENT
None known.

Exposure Guidelines

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

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


9. PHYSICAL AND CHEMICAL PROPERTIES

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

Manufactured By: Momentive performance material  
260 Hudson River Rd  
Waterford NY 12188  

Revised: 04/15/2011  
Preparer: PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS  
CHEMTREC 1-800-424-9300

Chemical Family/Use: Silicone Rubber  
Formula: Mixture

HMIS  
Flammability: 1  Reactivity: 0  Health: 1

NFPA  
Flammability: 1  Reactivity: 0  Health: 1

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW  
CAUTION! May be harmful if swallowed. May cause eye irritation. Attention: Not for injection into humans.  
Form: Liquid  
Color: Red  
Odor: Slight

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.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
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<th>PRODUCT COMPOSITION</th>
<th>CAS REG NO.</th>
<th>WGT. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. HAZARDOUS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methylphenylsiloxane Copolymer</td>
<td>68951-93-9</td>
<td>60 - 100 %</td>
</tr>
<tr>
<td>Diiron trioxide</td>
<td>1309-37-1</td>
<td>30 - 60 %</td>
</tr>
<tr>
<td>Kieselguhr, soda ash flux-calcined</td>
<td>68855-54-9</td>
<td>10 - 30 %</td>
</tr>
<tr>
<td>Cristobalite</td>
<td>14464-46-1</td>
<td>5 - 10 %</td>
</tr>
<tr>
<td>Silicic acid, ethyl ester</td>
<td>11099-06-2</td>
<td>1 - 5 %</td>
</tr>
</tbody>
</table>

| B. NON-HAZARDOUS                     |              |         |

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**
Treatment is symptomatic and supportive.
5. FIRE-FIGHTING MEASURES

FLASH POINT: > 100 °C; 212 °F
FLAMMABLE LIMITS IN AIR - LOWER (%): No data available.
FLAMMABLE LIMITS IN AIR - UPPER (%): 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.

STORAGE
Keep container tightly closed in a cool, well-ventilated place.

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 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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS RN</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
</table>
| 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


9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOILING POINT - C &amp; F:</td>
<td>&gt;285 °C; 545 °F</td>
</tr>
<tr>
<td>VAPOR PRESSURE (20 C) (MM HG):</td>
<td>No data available</td>
</tr>
<tr>
<td>VAPOR DENSITY (AIR=1):</td>
<td>No data available</td>
</tr>
<tr>
<td>FREEZING POINT:</td>
<td>Liquid</td>
</tr>
<tr>
<td>PHYSICAL STATE:</td>
<td>Slight</td>
</tr>
<tr>
<td>Odor:</td>
<td>Red</td>
</tr>
<tr>
<td>Color:</td>
<td>No data available</td>
</tr>
<tr>
<td>EVAPORATION RATE (BUTYL ACETATE=1):</td>
<td>No data available</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY (WATER=1):</td>
<td>ca. 1.42</td>
</tr>
<tr>
<td>DENSITY:</td>
<td>ca. 1.42 g/cm3</td>
</tr>
<tr>
<td>pH:</td>
<td>No data available</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER (20 C):</td>
<td>Insoluble</td>
</tr>
<tr>
<td>VOC EXCL. H2O &amp; EXEMPTS (G/L):</td>
<td>7 g/l</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

STABILITY
Stable
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.

INCOMPATIBILITY (MATERIALS TO AVOID)
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.
12. ECOLOGICAL INFORMATION

ECOTOXICITY

No data available.

DISTRIBUTION

No data available.

CHEMICAL FATE

No data available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD

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)
- 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 HAZARD CLASS
D2B - 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.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>ceiling limit</td>
</tr>
<tr>
<td>EST</td>
<td>estimated</td>
</tr>
<tr>
<td>NA</td>
<td>not applicable</td>
</tr>
<tr>
<td>NE</td>
<td>none established</td>
</tr>
<tr>
<td>ND</td>
<td>none determined</td>
</tr>
<tr>
<td>SKN</td>
<td>skin</td>
</tr>
<tr>
<td>R</td>
<td>recommended</td>
</tr>
<tr>
<td>NT</td>
<td>not tested</td>
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<td>ppm</td>
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<td>ppb</td>
<td>parts per billion</td>
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<td>MST</td>
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<tr>
<td>MST</td>
<td>short term exposure limit</td>
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<td>V</td>
<td>recommended by vendor</td>
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<tr>
<td>TS</td>
<td>trade secret</td>
</tr>
<tr>
<td>V</td>
<td>recommended by vendor</td>
</tr>
<tr>
<td>V</td>
<td>recommended by vendor</td>
</tr>
</tbody>
</table>

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