

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** SE871 0LB-Box TUFEL®

**Other means of identification**

**Synonyms:** Polysiloxane Curing Compound

**Recommended use and restriction on use**

**Recommended use:** Crosslinker used in the production of elastomers.

**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**

**Health Hazards**

Toxic to reproduction Category 2

**Unknown toxicity - Health**

Acute toxicity, oral	0 %
Acute toxicity, dermal	0 %
Acute toxicity, inhalation, vapor	0 %
Acute toxicity, inhalation, dust or mist	0 %

**Label Elements**

**Hazard Symbol:**

**SE871 0LB-Box TUFEL®**



**Signal Word:** Warning

**Hazard Statement:** H361; Suspected of damaging fertility or the unborn child.

**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.

**Response:** IF exposed or concerned: Get medical advice/attention.

**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.

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

**3. Composition/information on ingredients**

**Mixtures**

Chemical Identity	CAS number	Content in percent (%)*	Notes
Ethynyl Cyclohexanol	78-27-3	1 - <5%	No data available.
Octamethylcyclotetrasiloxane	556-67-2	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.

**4. First-aid measures**

**General information:** Get medical attention if symptoms occur.

**Ingestion:** If swallowed, do NOT induce vomiting. Give a glass of water. Do not give victim anything to drink if he is unconscious. Get medical attention if symptoms persist.

**SE871 0LB-Box TUFEL®**

<b>Inhalation:</b>	Move the exposed person to fresh air at once. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Get medical attention if symptoms persist.
<b>Skin Contact:</b>	Flush contaminated area with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Eye contact:</b>	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if irritation persists after washing.

**Most important symptoms/effects, acute and delayed**

<b>Symptoms:</b>	None known.
<b>Hazards:</b>	Toxic to reproduction

**Indication of immediate medical attention and special treatment needed**

<b>Treatment:</b>	Treatment is symptomatic and supportive.
-------------------	--

**5. Fire-fighting measures**

<b>General Fire Hazards:</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
------------------------------	--

**Suitable (and unsuitable) extinguishing media**

<b>Suitable extinguishing media:</b>	All standard extinguishing agents are suitable.
<b>Unsuitable extinguishing media:</b>	Avoid water in straight hose stream; will scatter and spread fire.

<b>Specific hazards arising from the chemical:</b>	In case of fire, carbon monoxide and carbon dioxide may be formed. 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 and precautions for firefighters**

<b>Special fire fighting procedures:</b>	Product may charge electrostatically during pouring or filling. Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking.
<b>Special protective equipment for fire-fighters:</b>	Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

**6. Accidental release measures**

**SE871 0LB-Box TUFEL®**

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

Avoid contact with skin and eyes. Keep out of reach of children. Keep container closed. See Section 8 of the SDS for Personal Protective Equipment.

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

Stop the flow of material, if this is without risk. 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. Wear appropriate personal protective equipment. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

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

No data available.

**8. Exposure controls/personal protection**

**Control Parameters**

**Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values	Source
Octamethylcyclotetrasiloxane	TWA	5 ppm	
Octamethylcyclotetrasiloxane - Vapor.	ST ESL	1,000 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
	AN ESL	100 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
Octamethylcyclotetrasiloxane	TWA	10 ppm	US. OARS. WEELs Workplace Environmental Exposure Level Guide, as amended (2014)

None of the components have assigned exposure limits.

**Appropriate Engineering Controls**

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

**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:**

Safety glasses with side shields

**Skin Protection**

**Hand Protection:**

Chemical resistant gloves

**SE871 0LB-Box TUFEL®**

- 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:** Observe good industrial hygiene practices.

**9. Physical and chemical properties**

**Appearance**

- Physical state:** solid
- Form:** solid
- Color:** Yellow to brown
- Odor:** strong
- Odor threshold:** No data available.
- pH:** Not applicable
- Melting point/freezing point:** Not applicable
- Initial boiling point and boiling range:** Not applicable
- Flash Point:** > 204 °C (Open Cup)
- Evaporation rate:** Negligible
- 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.
  - Explosive limit - lower (%):** No data available.
- Heat of combustion:** No data available.
- Vapor pressure:** Negligible
- Vapor density:** Negligible
- Density:** ca. 1.15 g/cm<sup>3</sup>
- Relative density:** ca. 1.15
- Solubility(ies)**
  - Solubility in water:** Insoluble
  - Solubility (other):** No data available.
- Partition coefficient (n-octanol/water) Log Pow:** Not applicable
- Auto-ignition temperature:** Not applicable
- Decomposition temperature:** To avoid thermal decomposition, do not overheat.
- SADT:** No data available.

**SE871 0LB-Box TUFEL®**

**Viscosity, dynamic:** Not applicable  
**Viscosity, kinematic:** Not applicable  
**VOC:** No data available.

**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 polymerization does not occur.  
**Conditions to avoid:** None known.  
**Incompatible Materials:** Strong Acids, Strong Bases  
**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:** ATEmix: 27,649.77 mg/kg

**SE871 0LB-Box TUFEL®**

**Specified substance(s):**

Ethynyl Cyclohexanol LD 50 (Rat): 600 mg/kg

Octamethylcyclotetrasiloxane LD 50 (Rat): > 4,800 mg/kg

**Dermal**

**Product:** ATEmix: 46,082.95 mg/kg

**Specified substance(s):**

Ethynyl Cyclohexanol LD 50 (Rabbit): 1,000 mg/kg

Octamethylcyclotetrasiloxane LD 50 (Rat): > 2,375 mg/kg

**Inhalation**

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s):**

Octamethylcyclotetrasiloxane LC50 (Rat): 36 mg/l

**Repeated dose toxicity**

**Product:** No data available.

**Skin Corrosion/Irritation**

**Product:** Not applicable

**Serious Eye Damage/Eye Irritation**

**Product:** Not applicable

**Respiratory or Skin Sensitization**

**Product:** Not applicable

**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

**SE871 0LB-Box TUFEL®**

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**Specified substance(s):**

Octamethylcyclotetrasiloxane  
Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic)  
Mouse Lymphoma Assay (OECD Guideline 476): negative (not mutagenic)

**In vivo**

**Product:** No data available.

**Specified substance(s):**

Octamethylcyclotetrasiloxane  
Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female): negative

**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:**

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 aquatic environment:**

**Fish**

**Product:** No data available.



**SE871 0LB-Box TUFEL®**

**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):**  
 Ethynyl Cyclohexanol 20 %

Octamethylcyclotetrasiloxane 3.7 % (29 d, 310 Ready Biodegradability - CO<sub>2</sub> in Sealed Vessels (Headspace Test)) Not readily biodegradable.

**BOD/COD Ratio**  
**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**  
**Product:** No data available.

**Specified substance(s):**  
 Octamethylcyclotetrasiloxane Fathead Minnow, Bioconcentration Factor (BCF): 12.40

**Partition Coefficient n-octanol / water (log Kow)**  
**Product:** Log Kow: Not applicable

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

**Known or predicted distribution to environmental compartments**

Ethynyl Cyclohexanol No data available.

Octamethylcyclotetrasiloxane No data available.

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

**13. Disposal considerations**

**General information:** The generation of waste should be avoided or minimized wherever possible. See Section 8 for information on appropriate personal protective equipment. 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.

**SE871 0LB-Box TUFEL®**

**Contaminated Packaging:** Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**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.

**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**

Delayed (Chronic) Health Hazard  
Reproductive toxicity

**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

**SARA 313 (TRI Reporting)**

None present or none present in regulated quantities.

---

**SE871 0LB-Box TUFEL®**

**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**

polyvinylsiloxane

Treated Fumed Silica

Siloxanes and Silicones, di-Me, Me vinyl

Ethynyl Cyclohexanol

Cyclotetrasiloxane, 2,4,6,8-tetraethenyl-2,4,6,8-tetramethyl-

Octamethylcyclotetrasiloxane

**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.

**SE871 0LB-Box TUFEL ®**

**Inventory Status:**

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.
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.

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

**HMIS Hazard ID**

<b>Health</b>	*	0
<b>Flammability</b>	0	
<b>Physical Hazards</b>	0	
<b>PERSONAL PROTECTION</b>		

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

---

**SE871 0LB-Box TUFEL®**

**Issue Date:** 03/27/2020  
**Revision Date:** No data available.  
**Version #:** 2.3  
**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 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.

®,\*, and TM indicate trademarks owned by or licensed to Momentive.