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## Safety Data Sheet ST-525G, ST-525Q, ST-525-5, ST-525-55 Defoamer

### 1. IDENTIFICATION

Synonyms none  
CAS# see Part 3, below  
Material Use foam breaking agent

**IN AN EMERGENCY CALL: INFOTRAC 1-800-535-5053**

### 2. HAZARD IDENTIFICATION

GHS Class **NOT HAZARDOUS**  
(Category)  
Signal Words

Hazard Statements NONE

GHS Precautionary Statements for Label NONE

### 3. COMPOSITION

	CAS NUMBER	%	TLV ppm / mg/m <sup>3</sup>	LD <sub>50</sub> (mg/kg) ORAL	LD <sub>50</sub> (mg/kg) SKIN	LC <sub>50</sub> ppm INHALATION
Polydimethylsiloxane	63148-62-9	>20%	not listed	see Part 11	see Part 11	see Part 11
Proprietary Blend of Non-hazardous Substances	trade secret*	<80%	not listed	not toxic*	not toxic*	not toxic*

\* **NOTE:** The bought-in blend is proprietary. Suppliers' MSDS was used to classify the hazards. Tomco-Harwel has been unable to verify this information. However, the most common foam breaking agents include vegetable oils, fatty alcohols, waxes, and appropriate dispersing agents – all relatively harmless.

### 4. FIRST AID

SKIN: Wash with soap and plenty of water. Remove contaminated clothing and do not reuse until thoroughly laundered. Seek medical help promptly if there is persistent itching or redness in the affected area.  
EYES: Wash eyes with plenty of water, holding eyelids open. Seek medical assistance if there is any irritation.  
INHALATION: Remove from contaminated area promptly. **CAUTION: Rescuer must not endanger himself!** If victim's breathing stops, administer artificial respiration and seek medical aid promptly.  
INGESTION: Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

*NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity product. The stomach should only be emptied under medical supervision, after the installation of an airway to protect the lungs.*

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## 5. FLAMMABILITY & FIRE-FIGHTING

Flash Point	not known – <i>not flammable</i>
Autoignition Temperature	not known – <i>cannot burn</i>
Flammable Limits	not known – <i>not flammable</i>
Combustion Products	carbon monoxide; silicone oxides & formaldehyde may form under fire conditions
Firefighting Precautions	as for materials sustaining fire; firefighters must wear SCBA
Static Charge Accumulation	readily accumulates a static charge on agitation or pumping, <i>but no danger of ignition</i>

## 6. ACCIDENTAL RELEASE MEASURES

Leak Precaution	dike to control spillage and prevent environmental contamination
Handling Spill	ventilate contaminated area; recover free liquid with suitable pumps; absorb residue on an inert sorbent, sweep, shovel & store in closed containers for disposal

## 7. HANDLING & STORAGE

Apart from avoiding contact with oxidizers, no special storage requirements.

Never cut, drill, weld or grind on or near this container. Avoid prolonged contact with skin and wash work clothes frequently. An eye bath should be available near the workplace.

## 8. EXPOSURE CONTROL & PERSONAL PROTECTION

ACGIH TLV	not listed	ACGIH STEL	not listed
OSHA PEL	not listed	OSHA STEL	not listed
Ventilation	no special mechanical ventilation required; <i>if desired, respirator with dust &amp; mist filter will protect</i>		
Hands	no special protective gloves required – <i>if desired, consult supplier for suitably resistant gloves</i>		
Eyes	safety glasses with side shields – <i>always protect the eyes</i>		
Clothing	no special protective clothing required		

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Odor & Appearance	milky white, odorless liquid
Odor Threshold	not known – <i>odorless</i>
Vapor Pressure	not known
Evaporation Rate ( <i>Butyl Acetate = 1</i> )	not known – <i>below 1</i>
Vapor Density (air = 1)	heavier than air
Boiling Range	100°C / 212°C
Freezing Point	approx. 0°C / 32°F
Specific Gravity	1.0 (20/20°C)
Water Solubility	not known – <i>dispersible in water</i>
Also soluble in	not known
Viscosity	not known – viscous liquid
pH	4-8

## 10. REACTIVITY

Dangerously Reactive With	none known
Also Reactive With	strong oxidizers
Chemical Stability	stable; will not polymerize
Decomposes in Presence of	high temperature may cause decomposition
Decomposition Products	none apart from Hazardous Combustion Products
Mechanical Impact	not sensitive

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## 11. TOXICITY INFORMATION

### **i. ACUTE EXPOSURE**

Skin Contact	not irritating
Skin Absorption	yes, slowly; toxic effects unlikely by this route
Eye Contact	not irritating
Inhalation	no known effect
Ingestion	no known effect – <i>very low toxicity anticipated</i>

<b>Polydimethylsiloxane:</b>	<i>no information available for other ingredients; these are expected to be non-toxic</i>
LD <sub>50</sub> (oral)	from >10,000 to >46,000mg/kg (rat) – <i>LD<sub>50</sub> never achieved; most testing found no mortality</i>
LD <sub>50</sub> (skin)	>2000 to >32,000 mg/kg (rat), >19,400mg/kg (rabbit) – <i>no mortality reported</i>
LC <sub>50</sub> (inhalation)	>535,000mg/m <sup>3</sup> – <i>no sign of toxicity, even with very high aerosol (mist) exposure</i>

### **ii. CHRONIC EXPOSURE**

General	no known effect
Sensitizing	not a sensitizer
Carcinogen/Tumorigen	not known to be a tumorigen or a carcinogen in humans or animals
Reproductive Effect	no known effect on humans or animals
Mutagen	not known to be a mutagen or teratogen in humans or animals
Synergistic With	not known

## 12. ECOLOGICAL INFORMATION

### **Polydimethylsiloxane:**

Bioaccumulation	not a bioaccumulator – <i>polymethylsiloxane not absorbed via skin or gastrointestinal tract</i>
Biodegradation	not known – DMSD (below) biodegrades slowly to CO <sub>2</sub> , water and silica
Abiotic Degradation	gradually hydrolyses to (water soluble) dimethylsilanediol (DMSD), but see Ref (1), Part 4.3.1
Mobility in soil, water	water insoluble; cannot move in soil and water

### **Aquatic Toxicity**

LC <sub>50</sub> (Fish, 96hr)	not known – <i>due to low water solubility, feeding tests were carried out; 10,000mg/kg/day for 28 days had no adverse effect on <i>Oncorhynchus mykiss</i></i>
NOEC (Crustacea, 48hr)	572mg/kg ( <i>Daphnia magna</i> ), 2200mg/kg ( <i>Hyalella azteca</i> ), 2300mg/kg ( <i>Ampelisca abdita</i> )
EC <sub>50</sub> (Algae)	not known – <i>no toxicity observed in various tests</i>
EC <sub>50</sub> (Bacteria)	not known

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal	<b>do not flush to sewer;</b> may be incinerated in approved facility with flue gas monitoring & scrubbing, mix with a suitable flammable waste before incineration
Containers	<b>Drums</b> should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use. <b>Pails</b> must be vented and thoroughly dried prior to crushing and recycling. <b>IBCs</b> (intermediate bulk containers): polyethylene bottle must be pressure tested & recertified at 30 months. Replace at 60 months (5 years). Steel containers must be inspected, pressure tested & recertified every 5 years. <b>Warning: never cut, drill, weld or grind on or near this container, even if empty.</b>

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## 14. TRANSPORT INFORMATION

### **USA 49 CFR & Canada/International TDG**

Product Identification Number	<b>UN – not regulated for transport</b>
Shipping Name	<b>not regulated for transport</b>
Classification	<b>not regulated for transport</b>
<i>Marine Pollution</i>	<i>not a marine pollutant</i>
<i>ERAP Required</i>	<i>No</i>

## 15. REGULATIONS

**California Proposition 65:** *Contains NO substances known to the State of California to cause cancer or reproductive toxicity.*

<b>Canada DSL</b>	<b>on inventory</b>
<b>U.S.A. TSCA</b>	<b>All chemicals in this product are listed as active or are exempt from TSCA inventory.</b>
<b>Europe EINECS</b>	<b>on inventory</b>

### ***U.S.A. Regulations:***

**TSCA Requirements:** Section 8(a) of TSCA requires manufacturers of this chemical substance to report preliminary assessment information concerned with production, use, and exposure to EPA as cited in the preamble in 51 FR 41329. Pursuant to section 8(d) of TSCA, EPA promulgated a model Health and Safety Data Reporting Rule. The section 8(d) model rule requires manufacturers, importers, and processors of listed chemical substances and mixtures to submit to EPA copies and lists of unpublished health and safety studies. Dimethyl silicones and siloxanes are included on this list. /Dimethyl Silicones and Siloxanes/

## 16. OTHER INFORMATION

<b>Date of Preparation</b>	<b>September 2018</b>
<b>Date of Revision</b>	<b>January 2019-TSCA statement and Prop 65 statement</b>

Prepared for DAC Vision

*With data from the Registry of Toxic Effects of Chemical Substances (RTECS), Hazardous Substance Data Base (HSDB), Cheminfo (CCOHS), OSHA, IUCLID Datasheets (European Chemical Substance Information System - ESIS), & others sources (below if used), as required/available*

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