

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 07/05/2016

Revision: 07/05/2016

## 1 Identification

### Product identifier

- Trade name: **Touch 'n Seal Foam Kit 15 CCMC Part A**
- Product code: EHS 2921 A

### Recommended use and restriction on use

- Recommended use: Sealant
- Restrictions on use: See Sections 8 and 10 for further information.

### Details of the supplier of the Safety Data Sheet

#### Manufacturer/Supplier:

Convenience Products  
866 Horan Drive  
Pacific, MO 63026  
Phone: 636-349-5855  
Toll-Free: 1-800-325-6180



#### Emergency telephone number:

ChemTel Inc.  
(800)255-3924, +1 (813)248-0585

## 2 Hazard(s) identification

### Classification of the substance or mixture

- Press. Gas H280 Contains gas under pressure; may explode if heated.
- Acute Tox. 4 H332 Harmful if inhaled.
- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2A H319 Causes serious eye irritation.
- Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- STOT SE 3 H335 May cause respiratory irritation.
- STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

### Label elements

#### GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

#### Hazard pictograms:



GHS04 GHS07 GHS08

#### Signal word: Danger

#### Hazard statements:

- H280 Contains gas under pressure; may explode if heated.
- H332 Harmful if inhaled.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.

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H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements:**

P260 Do not breathe mist/vapors/spray.

P284 In case of inadequate ventilation wear respiratory protection.

P264 Wash thoroughly after handling.

P280 Wear protective gloves and eye protection.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of the workplace.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302+P352 IF ON SKIN: Wash with plenty of water.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P304+P341 If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards**

0 % of the mixture consists of component(s) of unknown toxicity.

There are no other hazards not otherwise classified that have been identified.

## 3 Composition/information on ingredients

**Chemical characterization: Mixtures**

**Components:**

9016-87-9	polymethylene polyphenylene isocyanate ⚠ Resp. Sens. 1, H334; STOT RE 2, H373 ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	40-60%
101-68-8	4,4'-methylenediphenyl diisocyanate ⚠ Resp. Sens. 1, H334; STOT RE 2, H373 ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	25-40%
811-97-2	Norflurane ⚠ Press. Gas, H280 Simple Asphyxiant	10-20%
156-60-5	halogenated hydrocarbon ⚠ Flam. Liq. 2, H225 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	1-2.5%

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· **Additional information:**

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.  
For the wording of the listed Hazard Statements refer to section 16.

## 4 First-aid measures

· **Description of first aid measures**

· **General information:**

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air and to be sure to call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Do not pull solidified product away from the skin.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation or rash occurs: Get medical advice/attention.

· **After eye contact:**

Protect unharmed eye.

Do not remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Seek immediate medical advice.

· **After swallowing:**

Unlikely route of exposure.

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· **Most important symptoms and effects, both acute and delayed:**

Asthma attacks

Headache

Coughing

Breathing difficulty

Dizziness

Cyanosis

Allergic reactions

Irritant to skin and mucous membranes.

Irritant to eyes.

· **Danger:**

Danger of impaired breathing.

Danger of pulmonary edema.

Danger of pneumonia.

Danger of convulsion.

May cause damage to organs through prolonged or repeated exposure.

Condition may deteriorate with alcohol consumption.

· **Indication of any immediate medical attention and special treatment needed:**

If swallowed, gastric irrigation with added, activated carbon.

If swallowed or in case of vomiting, danger of entering the lungs.

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Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.  
 Medical supervision for at least 48 hours.  
 If necessary oxygen respiration treatment.  
 Later observation for pneumonia and pulmonary edema.  
 Treat skin and mucous membrane with antihistamine and corticoid preparations.  
 Contains polymethylene polyphenylene isocyanate, 4,4'-methylenediphenyl diisocyanate, o-(p-isocyanatobenzyl)phenyl isocyanate. May produce an allergic reaction.  
 If medical advice is needed, have product container or label at hand.  
 In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture**  
Danger of receptacles bursting because of high vapor pressure if heated.
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.  
Wear fully protective suit.
- **Additional information:**  
Cool endangered receptacles with water spray.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Remove persons from danger area.  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation.  
Protect from heat
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Allow to solidify. Pick up mechanically.  
Clean the affected area carefully; suitable cleaners are:  
Organic solvent
- **Reference to other sections:**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

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## 7 Handling and storage

- **Handling**

- **Precautions for safe handling:**

Use only in well ventilated areas.  
Keep away from heat and direct sunlight.

- **Information about protection against explosions and fires:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 120 °F / 49 °C, i.e. electric lights. Do not pierce or burn, even after use.  
Do not spray on a naked flame or any incandescent material.  
Keep respiratory protective device available.

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

- **Storage**

- **Requirements to be met by storerooms and receptacles:**

Store in a cool location.  
Observe official regulations on storing packagings with pressurized containers.

- **Information about storage in one common storage facility:**

Store away from foodstuffs.  
Do not store together with oxidizing and acidic materials.

- **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.  
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

- **Specific end use(s):** No relevant information available.

## 8 Exposure controls/personal protection

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

### 101-68-8 4,4'-methylenediphenyl diisocyanate

PEL (USA)	Ceiling limit value: 0.2 mg/m <sup>3</sup> , 0.02 ppm
REL (USA)	Long-term value: 0.05 mg/m <sup>3</sup> , 0.005 ppm Ceiling limit value: 0.2* mg/m <sup>3</sup> , 0.02* ppm *10-min
TLV (USA)	Long-term value: 0.051 mg/m <sup>3</sup> , 0.005 ppm
EL (Canada)	Long-term value: 0.005 ppm Ceiling limit value: 0.01 ppm Skin; S
EV (Canada)	Long-term value: 0.005 ppm Ceiling limit value: 0.02 ppm
LMPE (Mexico)	Long-term value: 0.005 ppm

### 811-97-2 Norflurane

WEEL (USA)	Long-term value: 1000 ppm
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## 156-60-5 halogenated hydrocarbon

PEL (USA)	Long-term value: 790 mg/m <sup>3</sup> , 200 ppm
REL (USA)	Long-term value: 790 mg/m <sup>3</sup> , 200 ppm
TLV (USA)	Long-term value: 793 mg/m <sup>3</sup> , 200 ppm
EL (Canada)	Long-term value: 200 ppm
EV (Canada)	Short-term value: 990 mg/m <sup>3</sup> , 250 ppm Long-term value: 790 mg/m <sup>3</sup> , 200 ppm
LMPE (Mexico)	Long-term value: 200 ppm

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- **Engineering controls:** No relevant information available.

- **Breathing equipment:**



Combined Organic Vapor and Particulate Respirator is recommended for use during all processing activities.

Use suitable respiratory protective device when high concentrations are present.

Suitable respiratory protective device recommended.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Gloves should provide protection from freezing temperatures.

- **Eye protection:**

Contact lenses should not be worn.



Safety glasses

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment**

Avoid release to the environment.

No relevant information available.

- **Risk management measures** See Section 7 for additional information.

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### 9 Physical and chemical properties

#### · Information on basic physical and chemical properties

##### · Appearance:

Form:	Aerosol
Color:	Amber colored
· Odor:	Hydrocarbon.
· Odor threshold:	Not determined.

· pH-value at 20 °C (68 °F):	7
· Melting point/Melting range:	Not applicable, as aerosol.
· Boiling point/Boiling range:	Not applicable, as aerosol.

· Flash point:	Not applicable, as aerosol.
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· Flammability (solid, gaseous):	Not applicable.
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· Auto-ignition temperature:	Not determined.
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· Decomposition temperature:	Not determined.
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· Danger of explosion:	Not determined.
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##### · Explosion limits

Lower:	Not determined.
Upper:	Not determined.

· Oxidizing properties:	Not determined.
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· Vapor pressure:	Not determined.
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· Density at 20 °C (68 °F):	1.23 g/cm <sup>3</sup> (10.264 lbs/gal)
· Relative density:	Not determined.
· Vapor density:	Not determined.
· Evaporation rate:	Not applicable.

· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
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· Partition coefficient (n-octanol/water):	Not determined.
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##### · Viscosity

Dynamic:	Not determined.
Kinematic:	Not determined.
VOC (California):	32.8 g/L (EPA Method 24)

· Other information	No relevant information available.
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### 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
Danger of receptacles bursting because of high vapor pressure if heated.
- **Possibility of hazardous reactions:** No dangerous reactions known.

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- **Conditions to avoid:** No relevant information available.
- **Incompatible materials:** No relevant information available.
- **Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NOx)

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

**101-68-8 4,4'-methylenediphenyl diisocyanate**

Oral | LD50 | 2200 mg/kg (mouse)

**156-60-5 halogenated hydrocarbon**

Oral | LD50 | 770 mg/kg (rat)

- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.
- **Sensitization:** May cause sensitisation by inhalation and skin contact.

- **IARC (International Agency for Research on Cancer):**

9016-87-9 | polymethylene polyphenylene isocyanate

101-68-8 | 4,4'-methylenediphenyl diisocyanate

- **NTP (National Toxicology Program):**

None of the ingredients are listed.

- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

- **Probable route(s) of exposure:**

Inhalation.  
Eye contact.  
Skin contact.

- **Acute effects (acute toxicity, irritation and corrosivity):**

Harmful if inhaled.  
Irritating to eyes, respiratory system and skin.

- **Repeated dose toxicity:** Possible risk of irreversible effects.

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

- **Carcinogenicity:** Based on available data, the classification criteria are not met.

- **Reproductive toxicity:** Based on available data, the classification criteria are not met.

- **STOT-single exposure:** May cause respiratory irritation.

- **STOT-repeated exposure:** May cause damage to organs through prolonged or repeated exposure.

- **Aspiration hazard:** Based on available data, the classification criteria are not met.

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## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity** The product contains materials that are harmful to the environment.

- **Persistence and degradability** The product is partially biodegradable. Significant residuals remain.

- **Bioaccumulative potential:** Does not accumulate in organisms

- **Mobility in soil:** No relevant information available.

- **Additional ecological information**

- **General notes:**

At present there are no ecotoxicological assessments.

This statement was deduced from products with a similar structure or composition.

Due to the consistence and the low watersolubility of the product a bioavailability is not probable.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects:** No relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

- **Uncleaned packagings**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agent:** Solvent naphtha

## 14 Transport information

- **UN-Number**

- **DOT, ADR, IMDG, IATA**

UN1950

- **UN proper shipping name**



Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 1 L (0.3 gal).

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· DOT	Aerosols
· ADR	1950 AEROSOLS
· IMDG	AEROSOLS
· IATA	Aerosols, non-flammable

**· Transport hazard class(es)**

· DOT



· Class	2.2
· Label	2.2

· ADR



· Class	2 5A Gases
· Label	2.2

· IMDG, IATA



· Class	2 Gases
· Label	2.2

· <b>Packing group</b>	This UN-number is not assigned a packing group. Aerosols are not assigned a packing group.
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**· Environmental hazards**

· <b>Marine pollutant:</b>	No
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· <b>Special precautions for user</b>	Warning: Gases
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· <b>EMS Number:</b>	F-D,S-U
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· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
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**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

9016-87-9 polymethylene polyphenylene isocyanate

101-68-8 4,4'-methylenediphenyl diisocyanate

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

· **Proposition 65 (California)**· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **Carcinogenic categories**· **EPA (Environmental Protection Agency):**

9016-87-9 polymethylene polyphenylene isocyanate

CBD

101-68-8 4,4'-methylenediphenyl diisocyanate

D, CBD

156-60-5 halogenated hydrocarbon

II

· **IARC (International Agency for Research on Cancer):**

9016-87-9 polymethylene polyphenylene isocyanate

3

101-68-8 4,4'-methylenediphenyl diisocyanate

3

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

· **Canadian Domestic Substances List (DSL):**

All ingredients are listed.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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· **Date of preparation / last revision** 07/05/2016 / -

· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

LDLo: Lowest Lethal Dose Observed

Press. Gas: Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

· **Sources**

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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## 1 Identification

- **Product identifier**
- **Trade name:** Touch 'n Seal Foam Kit 15 CCMC Part B
- **Product code:** EHS 2921 B
- **Recommended use and restriction on use**
- **Recommended use:** Sealant
- **Restrictions on use:** See Sections 8 and 10 for further information.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Convenience Products  
866 Horan Drive  
Pacific, MO 63026  
Phone: 636-349-5855  
Toll-Free: 1-800-325-6180
- **Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924, +1 (813)248-0585



## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Press. Gas H280 Contains gas under pressure; may explode if heated.  
Acute Tox. 4 H302 Harmful if swallowed.  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2A H319 Causes serious eye irritation.  
Repr. 2 H361 Suspected of damaging fertility or the unborn child.  
STOT SE 3 H335 May cause respiratory irritation.

### · Label elements

#### · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

#### · Hazard pictograms:



GHS04 GHS07 GHS08

- **Signal word:** Warning
- **Hazard statements:**  
H280 Contains gas under pressure; may explode if heated.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H361 Suspected of damaging fertility or the unborn child.  
H335 May cause respiratory irritation.
- **Precautionary statements:**  
P201 Obtain special instructions before use.

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P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing mist, vapors, or spray.
P264	Wash thoroughly after handling.
P280	Wear protective gloves and eye protection.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P330	Rinse mouth.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

### Other hazards

0 % of the mixture consists of component(s) of unknown toxicity.  
There are no other hazards not otherwise classified that have been identified.

## 3 Composition/information on ingredients

### Chemical characterization: Mixtures

#### Components:

68441-62-3	halogenated aliphatic polyether polyol ⚠ Eye Irrit. 2A, H319	25-40%
	Polyether polyol ⚠ Acute Tox. 3, H301 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	25-40%
811-97-2	Norflurane ⚠ Press. Gas, H280 Simple Asphyxiant	10-20%
13674-84-5	tris(2-chlorisopropyl)-phosphate ⚠ Acute Tox. 4, H302	5-<10%
156-60-5	halogenated hydrocarbon ⚠ Flam. Liq. 2, H225 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	2.5-5%
68928-76-7	dimethylbis[(1-oxoneodecyl)oxy]stannane ⚠ Repr. 2, H361; STOT RE 1, H372 ⚠ Acute Tox. 4, H302	0.1-1%

### Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

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For the wording of the listed Hazard Statements refer to section 16.

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## 4 First-aid measures

- **Description of first aid measures**

- **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:**

Do not pull solidified product away from the skin.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- **After eye contact:**

Protect unharmed eye.

Rinse opened eye for several minutes under running water. Then consult a doctor.

Do not remove contact lenses if worn.

- **After swallowing:**

Unlikely route of exposure.

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- **Most important symptoms and effects, both acute and delayed:**

Headache

Dizziness

Coughing

Irritant to skin and mucous membranes.

Irritant to eyes.

- **Danger:**

Toxic if swallowed.

May cause respiratory irritation.

May cause genetic defects.

- **Indication of any immediate medical attention and special treatment needed:**

Medical supervision for at least 48 hours.

If necessary oxygen respiration treatment.

If medical advice is needed, have product container or label at hand.

## 5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **For safety reasons unsuitable extinguishing agents:** None.

- **Special hazards arising from the substance or mixture**

Danger of receptacles bursting because of high vapor pressure if heated.

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Formation of toxic gases is possible during heating or in case of fire.

- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information:** Cool endangered receptacles with water spray.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**  
Ensure adequate ventilation.  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Allow to solidify. Pick up mechanically.  
Clean the affected area carefully; suitable cleaners are:  
Warm water and cleansing agent  
Organic solvent  
Dispose contaminated material as waste according to item 13.
- **Reference to other sections:**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling**
- **Precautions for safe handling:** Use only in well ventilated areas.
- **Information about protection against explosions and fires:**  
Do not spray on a naked flame or any incandescent material.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**  
Observe official regulations on storing packagings with pressurized containers.  
Store in a cool location.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
- **Specific end use(s):** No relevant information available.

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## 8 Exposure controls/personal protection

### · Control parameters

#### · Components with limit values that require monitoring at the workplace:

##### 811-97-2 Norflurane

WEEL (USA)	Long-term value: 1000 ppm
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##### 156-60-5 halogenated hydrocarbon

PEL (USA)	Long-term value: 790 mg/m <sup>3</sup> , 200 ppm
REL (USA)	Long-term value: 790 mg/m <sup>3</sup> , 200 ppm
TLV (USA)	Long-term value: 793 mg/m <sup>3</sup> , 200 ppm
EL (Canada)	Long-term value: 200 ppm
EV (Canada)	Short-term value: 990 mg/m <sup>3</sup> , 250 ppm Long-term value: 790 mg/m <sup>3</sup> , 200 ppm
LMPE (Mexico)	Long-term value: 200 ppm

### · Exposure controls

#### · Personal protective equipment:

##### · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

##### · Engineering controls: No relevant information available.

##### · Breathing equipment:

Not necessary if room is well-ventilated.  
Use suitable respiratory protective device in case of insufficient ventilation.  
Use suitable respiratory protective device when high concentrations are present.

##### · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Gloves should provide protection from freezing temperatures.

##### · Eye protection:

Contact lenses should not be worn.



Safety glasses

##### · Body protection: Protective work clothing

##### · Limitation and supervision of exposure into the environment

Avoid release to the environment.

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· **Risk management measures** See Section 7 for additional information.

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · Appearance:

· **Form:** Aerosolized liquid with compressed gas in cylinders

· **Color:** Amber colored

· **Odor:** Characteristic

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Melting point/Melting range:** Not applicable, as aerosol.

· **Boiling point/Boiling range:** Not applicable, as aerosol.

· **Flash point:** Not applicable, as aerosol.

· **Flammability (solid, gaseous):** Not applicable.

· **Auto-ignition temperature:** Not determined.

· **Decomposition temperature:** Not determined.

· **Danger of explosion:** Not determined.

#### · Explosion limits

· **Lower:** Not determined.

· **Upper:** Not determined.

· **Oxidizing properties:** Not determined.

· **Vapor pressure:** Not determined.

· **Density at 20 °C (68 °F):** 1.1 g/cm<sup>3</sup> (9.18 lbs/gal)

· **Relative density:** Not determined.

· **Vapor density:** Not determined.

· **Evaporation rate:** Not applicable.

#### · Solubility in / Miscibility with

· **Water:** Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

#### · Viscosity

· **Dynamic:** Not determined.

· **Kinematic:** Not determined.

· **VOC (California):** 32.8 g/L (EPA Method 24)

· **Other information** No relevant information available.

## 10 Stability and reactivity

· **Reactivity:** No relevant information available.

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- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions:**  
Danger of receptacles bursting because of high vapor pressure if heated.  
Contact with acids releases toxic gases.  
Reacts with strong acids and oxidizing agents.  
Reacts with peroxides and other radical forming substances.
- **Conditions to avoid:** Store away from oxidizing agents.
- **Incompatible materials:** No relevant information available.
- **Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen fluoride  
Hydrogen chloride (HCl)  
Hydrocarbons

## 11 Toxicological information

### · Information on toxicological effects

#### · Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

##### 13674-84-5 tris(2-chlorisopropyl)-phosphate

Oral	LD50	3600 mg/kg (rat)
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##### 156-60-5 halogenated hydrocarbon

Oral	LD50	770 mg/kg (rat)
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#### · Primary irritant effect:

- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.
- **Sensitization:** Based on available data, the classification criteria are not met.

#### · IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

#### · NTP (National Toxicology Program):

None of the ingredients are listed.

#### · OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

#### · Probable route(s) of exposure:

Inhalation.  
Eye contact.  
Skin contact.

- **Acute effects (acute toxicity, irritation and corrosivity):** Toxic if swallowed.
- **Repeated dose toxicity:** Possible risk of irreversible effects.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Repr. 2
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

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- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Suspected of damaging fertility or the unborn child.
- **STOT-single exposure:** May cause respiratory irritation.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity** The product contains materials that are harmful to the environment.
- **Persistence and degradability** The product is partially biodegradable. Significant residuals remain.
- **Bioaccumulative potential:** May be accumulated in organisms.
- **Mobility in soil:** No relevant information available.
- **Additional ecological information**
- **General notes:**  
At present there are no ecotoxicological assessments.  
This statement was deduced from the properties of the single components.  
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.  
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:**  
Solvent naphtha  
Water, if necessary with cleansing agents.

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**14 Transport information**

· **UN-Number**  
 · **DOT, ADR, IMDG, IATA** UN1950

· **UN proper shipping name**

Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 1 L (0.3 gal).

· **DOT** Aerosols  
 · **ADR** 1950 AEROSOLS  
 · **IMDG** AEROSOLS  
 · **IATA** Aerosols, non-flammable

· **Transport hazard class(es)**· **DOT**

· **Class** 2 Gases  
 · **Label** 2.2

· **ADR**

· **Class** 2 5A Gases  
 · **Label** 2.2

· **IMDG, IATA**

· **Class** 2 Gases  
 · **Label** 2.2

· **Packing group** This UN-number is not assigned a packing group.  
 Aerosols are not assigned a packing group.

· **Environmental hazards**

· **Marine pollutant:** No

· **Special precautions for user** Warning: Gases  
 · **EMS Number:** F-D,S-U

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- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

· **Proposition 65 (California)**· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **Carcinogenic categories**· **EPA (Environmental Protection Agency):**

156-60-5 | halogenated hydrocarbon

II

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

· **Canadian Domestic Substances List (DSL):**

All ingredients are listed.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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- **Date of preparation / last revision** 07/05/2016 / -

- **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

Press. Gas: Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

- **Sources**

Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))

Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sor\\_internet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sor_internet/registry/substreg/home/overview/home.do))

Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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