

## Pur Fill 1G 750 ml

Revision Date 03/14/2024

Print Date 03/15/2024

### SECTION 1. IDENTIFICATION

Company name : Todol Products  
25 Washington Ave  
USA Natick, MA 01760  
PO BOX 398

Telephone : 1-800-252-3818

Telefax : 508-651-0729

E-mail address : info@todol.com

Emergency telephone : 24/7 USA: 800-535-5053  
24/7 Global: 352-323-3500

Recommended use of the chemical and restrictions on use : For further information, refer to product data sheet.

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable aerosols : Category 1

Gases under pressure : Compressed gas

Acute toxicity (Oral) : Category 4

Skin irritation : Category 2

Eye irritation : Category 2B

Respiratory sensitization : Category 1

Skin sensitization : Category 1

Carcinogenicity : Category 2

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

Specific target organ toxicity - repeated exposure (Inhalation) : Category 2

#### GHS label elements

## Pur Fill 1G 750 ml

Revision Date 03/14/2024

Print Date 03/15/2024

Hazard pictograms



Signal Word

: Danger

Hazard Statements

: H222 Extremely flammable aerosol.  
H280 Contains gas under pressure; may explode if heated.  
H302 Harmful if swallowed.  
H315 + H320 Causes skin and eye irritation.  
H317 May cause an allergic skin reaction.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary Statements

: P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.

**Prevention:**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dusts or mists.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P284 Wear respiratory protection.

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ atten-

## Pur Fill 1G 750 ml

Revision Date 03/14/2024

Print Date 03/15/2024

tion.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P410 + P403 Protect from sunlight. Store in a well-ventilated place.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Additional Labeling

There are no ingredients with unknown acute toxicity used in a mixture at a concentration  $\geq 1\%$ .

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Mixtures

#### Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Castor oil, polymer with polymethylenepolyphenylene isocyanate	67700-69-0	Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 STOT RE 2; H373	$\geq 30 - < 50$
Tris(2-chloro-1-methylethyl) phosphate	13674-84-5	Acute Tox. 4; H302	$\geq 10 - < 20$
Aromatic prepolymer, polyether based	97851-17-7	Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT RE 2; H373	$\geq 10 - < 20$
Diphenylmethanediisocyanate, isomers and homologues	9016-87-9	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2B; H320 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 STOT RE 2; H373	$\geq 10 - < 20$
Aromatic prepolymer	916652-23-8	Acute Tox. 4; H332 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT RE 2; H373	$\geq 5 - < 10$

## Pur Fill 1G 750 ml

Revision Date 03/14/2024

Print Date 03/15/2024

isobutane	75-28-5	Flam. Gas 1; H220	>= 1 - < 5
propane	74-98-6	Flam. Gas 1; H220	>= 1 - < 5

Actual concentration is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
 Consult a physician.  
 Show this material safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
 Wash off with soap and plenty of water.  
 If symptoms persist, call a physician.
- In case of eye contact : Remove contact lenses.  
 Keep eye wide open while rinsing.  
 If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
 Do not induce vomiting without medical advice.  
 Do not give milk or alcoholic beverages.  
 Never give anything by mouth to an unconscious person.  
 Obtain medical attention.
- Most important symptoms and effects, both acute and delayed : irritant effects  
 sensitizing effects  
 Gastrointestinal discomfort  
 Asthmatic appearance  
 Cough  
 Respiratory disorder  
 Allergic reactions  
 Harmful if swallowed.  
 Causes skin and eye irritation.  
 May cause an allergic skin reaction.  
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 May cause respiratory irritation.  
 Suspected of causing cancer.  
 May cause damage to organs through prolonged or repeated exposure if inhaled.
- Notes to physician : Treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray jet  
 Dry powder

## Pur Fill 1G 750 ml

Revision Date 03/14/2024

Print Date 03/15/2024

	Foam Carbon dioxide (CO <sub>2</sub> )
Unsuitable extinguishing media	: Water High volume water jet
Hazardous combustion products	: Carbon dioxide (CO <sub>2</sub> ) Carbon monoxide Nitrogen oxides (NO <sub>x</sub> ) Hydrogen cyanide (hydrocyanic acid) Chlorine compounds Bromine compounds
Further information	: Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	: In the event of fire, wear self-contained breathing apparatus.

---

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment. Deny access to unprotected persons.
Environmental precautions	: Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	: Allow to solidify, use mechanical handling equipment. Ventilate the area.

---

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	: Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. Do not spray on a naked flame or any incandescent material. Take precautionary measures against electrostatic discharges.
Advice on safe handling	: Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Persons with a history of skin sensitization problems or asth-

**Pur Fill 1G 750 ml**

Revision Date 03/14/2024

Print Date 03/15/2024

ma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Smoking, eating and drinking should be prohibited in the application area.

Take precautionary measures against static discharge.

Open drum carefully as content may be under pressure.

Follow standard hygiene measures when handling chemical products.

Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 122 °F. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.  
 Store in original container.  
 Keep in a well-ventilated place.  
 Observe label precautions.  
 Store in accordance with local regulations.

Materials to avoid : Explosives  
 Poisonous gases  
 Poisonous liquids  
 Radioactive Substances

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ingredients with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	C	0.02 ppm 0.2 mg/m3	OSHA Z-1
		C	0.02 ppm 0.2 mg/m3	OSHA P0
		TWA	0.005 ppm	ACGIH
isobutane	75-28-5	STEL	1,000 ppm	ACGIH
propane	74-98-6	TWA	1,000 ppm 1,800 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,800 mg/m3	OSHA P0

The above constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Engineering measures : Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommend-

## Pur Fill 1G 750 ml

Revision Date 03/14/2024

Print Date 03/15/2024

ed or statutory limits.

The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

### Personal protective equipment

- Respiratory protection : Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
- The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
- Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
- Hygiene measures : Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and immediately after handling the product.  
Remove respiratory and skin/eye protection only after vapors have been cleared from the area.  
Remove contaminated clothing and protective equipment before entering eating areas.  
Wash thoroughly after handling.

---

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Chemicals under pressure
- Color : various
- Odor : ether-like
- Odor Threshold : No data available
- pH : Not applicable substance/mixture reacts with water
- Melting point/range / Freezing point : No data available
- Boiling point/boiling range : No data available

## Pur Fill 1G 750 ml

Revision Date 03/14/2024

Print Date 03/15/2024

Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Extremely flammable aerosol.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	5100 hpa
Relative vapor density	:	No data available
Density	:	ca. 1.05 g/cm <sup>3</sup> (73 °F / 23 °C)
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	Not applicable
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Volatile organic compounds (VOC) content	:	132 g/l

---

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	Heat, flames and sparks.



## Pur Fill 1G 750 ml

Revision Date 03/14/2024

Print Date 03/15/2024

Incompatible materials : Oxidizing agents

Hazardous decomposition products : No decomposition if stored and applied as directed.

---

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Harmful if swallowed.

#### Components:

##### **Castor oil, polymer with polymethylenepolyphenylene isocyanate:**

Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 423  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): 1.5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Expert judgment  
Remarks: Based on data from similar materials

##### **Aromatic prepolymer, polyether based:**

Acute inhalation toxicity : Acute toxicity estimate: 50 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : (Rat): 2,001 mg/kg  
Method: OECD Test Guideline 402

##### **Diphenylmethanediisocyanate, isomeres and homologues:**

Acute oral toxicity : LD50 Oral (Rat): > 10,000 mg/kg

Acute inhalation toxicity : LC50: 1.5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Expert judgment  
Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD50 Dermal (Rabbit): > 9,400 mg/kg

##### **Aromatic prepolymer:**

Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 423

## Pur Fill 1G 750 ml

Revision Date 03/14/2024

Print Date 03/15/2024

Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): 1.5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Expert judgment  
Remarks: Based on data from similar materials

### **Skin corrosion/irritation**

Causes skin irritation.

#### **Components:**

##### **Castor oil, polymer with polymethylenepolyphenylene isocyanate:**

Species : reconstructed human epidermis (RhE)  
Exposure time : < 1 h  
Method : OECD Test Guideline 439  
Result : No skin irritation  
Remarks : Based on data from similar materials

##### **Aromatic prepolymer, polyether based:**

Species : reconstructed human epidermis (RhE)  
Method : OECD Test Guideline 439  
Result : No skin irritation

##### **Aromatic prepolymer:**

Species : reconstructed human epidermis (RhE)  
Exposure time : < 1 h  
Method : OECD Test Guideline 439  
Result : No skin irritation  
Remarks : Based on data from similar materials

### **Serious eye damage/eye irritation**

Causes eye irritation.

#### **Components:**

##### **Castor oil, polymer with polymethylenepolyphenylene isocyanate:**

Species : Not tested on animals  
Result : No eye irritation  
Method : OECD Test Guideline 492  
Remarks : Based on data from similar materials

##### **Aromatic prepolymer, polyether based:**

Species : Not tested on animals  
Result : No eye irritation  
Method : OECD Test Guideline 438

## Pur Fill 1G 750 ml

Revision Date 03/14/2024

Print Date 03/15/2024

### Aromatic prepolymer:

Species : Not tested on animals  
Result : No eye irritation  
Method : OECD Test Guideline 438

### Respiratory or skin sensitization

#### Skin sensitization

May cause an allergic skin reaction.

#### Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### Components:

#### Castor oil, polymer with polymethylenepolyphenylene isocyanate:

Test Type : Local lymph node assay (LLNA)  
Routes of exposure : Dermal  
Species : Mouse  
Method : OECD Test Guideline 442B  
Result : May cause sensitization by skin contact.  
Remarks : Based on data from similar materials

#### Aromatic prepolymer, polyether based:

Species : Mouse  
Method : OECD Test Guideline 429  
Result : May cause sensitization by skin contact.

### Aromatic prepolymer:

Test Type : Local lymph node assay (LLNA)  
Routes of exposure : Dermal  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : May cause sensitization by skin contact.

### Germ cell mutagenicity

Not classified due to lack of data.

### Components:

#### Castor oil, polymer with polymethylenepolyphenylene isocyanate:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Metabolic activation: with and without metabolic activation  
Method: Mutagenicity (Escherichia coli - reverse mutation assay)  
Result: negative  
Remarks: Based on data from similar materials

#### Aromatic prepolymer, polyether based:

## Pur Fill 1G 750 ml

Revision Date 03/14/2024

Print Date 03/15/2024

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

### Aromatic prepolymer:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Metabolic activation: with and without metabolic activation  
Method: Mutagenicity (Escherichia coli - reverse mutation assay)  
Result: negative  
Remarks: Based on data from similar materials

### Carcinogenicity

Suspected of causing cancer.  
**IARC** Not applicable

**OSHA** Not applicable

**NTP** Not applicable

### Reproductive toxicity

Not classified due to lack of data.

### STOT-single exposure

May cause respiratory irritation.

### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure if inhaled.  
Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

### Aspiration toxicity

Not classified due to lack of data.

---

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

#### Castor oil, polymer with polymethylenepolyphenylene isocyanate:

Toxicity to fish : LL50 (Fish): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

## Pur Fill 1G 750 ml

Revision Date 03/14/2024

Print Date 03/15/2024

Toxicity to algae/aquatic plants : EC50 (algae): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

### Aromatic prepolymer, polyether based:

Toxicity to fish : LL50 (Danio rerio (zebra fish)): 100 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 100 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOELR (Raphidocelis subcapitata (freshwater green alga)): 100 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201

### Diphenylmethanediisocyanate, isomeres and homologues:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 1,000 mg/l  
Exposure time: 96 h

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 1,640 mg/l

### Aromatic prepolymer:

Toxicity to fish : LL50 (Fish): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (algae): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

## Pur Fill 1G 750 ml

Revision Date 03/14/2024

Print Date 03/15/2024

### Persistence and degradability

#### Components:

##### **Castor oil, polymer with polymethylenepolyphenylene isocyanate:**

Biodegradability : aerobic  
Result: Not readily biodegradable.  
Testing period: 28 d  
Exposure time: 28 d  
Kinetic:  
28 d: 1.5 %  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

##### **Aromatic prepolymer, polyether based:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 2.03 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

##### **Aromatic prepolymer:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 1.29 %  
Testing period: 28 d  
Exposure time: 28 d  
Kinetic:  
28 d: 1.29 %  
Method: OECD Test Guideline 301C

### **Bioaccumulative potential**

No data available

### **Mobility in soil**

No data available

### **Other adverse effects**

#### Product:

Additional ecological information : Do not empty into drains; dispose of this material and its container in a safe way.  
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Pur Fill 1G 750 ml

Revision Date 03/14/2024

Print Date 03/15/2024

### Global warming potential

Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) of the United Nations Framework Convention on Climate Change (UNFCCC)

#### Components:

##### propane:

20-year global warming potential: 0.072  
100-year global warming potential: 0.02  
500-year global warming potential: 0.006  
Atmospheric lifetime: 0.036 yr  
Radiative efficiency: 0 Wm<sup>2</sup>ppb  
Further information: Miscellaneous compounds

---

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

- Waste from residues : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

---

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

- UN/ID No. : UN 1950  
Proper shipping name : Aerosols, flammable  
Class : 2.1  
Packing group : Not assigned by regulation  
Labels : Flammable Gas  
Packing instruction (cargo aircraft) : 203  
Packing instruction (passenger aircraft) : 203

#### IMDG-Code

- UN number : UN 1950  
Proper shipping name : AEROSOLS  
Class : 2.1  
Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U  
Marine pollutant : no  
Remarks : Transport according to chapter 3.4 (LQ) possible

## Pur Fill 1G 750 ml

Revision Date 03/14/2024

Print Date 03/15/2024

### Domestic regulation

#### 49 CFR

UN/ID/NA number : UN 1950  
Proper shipping name : Aerosols  
Class : 2.1  
Packing group : Not assigned by regulation  
Labels : FLAMMABLE GAS  
ERG Code : 126  
Marine pollutant : no

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

---

## SECTION 15. REGULATORY INFORMATION

**TSCA list** : All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Gases under pressure  
Acute toxicity (any route of exposure)  
Respiratory or skin sensitization  
Carcinogenicity  
Specific target organ toxicity (single or repeated exposure)  
Skin corrosion or irritation  
Serious eye damage or eye irritation

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:



## Pur Fill 1G 750 ml

Revision Date 03/14/2024

Print Date 03/15/2024

Diphenylmethanediisocyanate, isomers and homologues      9016-87-9      >= 10 - < 20 %

### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

### California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

---

## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)  
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
ACGIH / TWA : 8-hour, time-weighted average  
ACGIH / STEL : Short-term exposure limit  
OSHA P0 / TWA : 8-hour time weighted average  
OSHA P0 / C : Ceiling limit  
OSHA Z-1 / TWA : 8-hour time weighted average  
OSHA Z-1 / C : Ceiling

### Notes to Reader

The data contained herein are furnished for information only and are believed to be reliable. However, Todo Products (hereafter Todo) does not assume responsibility for any results obtained by persons over whose methods Todo has no control. It is the user's responsibility to determine the suitability of Todo's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Todo specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Todo's products. Todo further disclaims any liability for consequential or incidental damages of any kind, including lost profits. This Safety Data Sheet has been generated based on OSHA Hazard Communication Standard (29 CFR 1910.1200) and provides information in accordance with U.S. federal law only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Todo for additional assistance.

Revision Date 03/14/2024

**Pur Fill 1G 750 ml**

Revision Date 03/14/2024

Print Date 03/15/2024

---

10000030922  
US / Z8

## Gun Cleaner

Revision Date 03/14/2024

Print Date 03/16/2024

### SECTION 1. IDENTIFICATION

Company name : Todol Products  
25 Washington Ave  
USA Natick, MA 01760  
PO BOX 398

Telephone : 1-800-252-3818

Telefax : 508-651-0729

E-mail address : info@todol.com

Emergency telephone : 24/7 USA: 800-535-5053  
24/7 Global: 352-323-3500

Recommended use of the chemical and restrictions on use : For further information, refer to product data sheet.

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable aerosols : Category 1

Gases under pressure : Compressed gas

Eye irritation : Category 2A

Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

#### GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H222 Extremely flammable aerosol.  
H280 Contains gas under pressure; may explode if heated.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

Precautionary Statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.

## Gun Cleaner

Revision Date 03/14/2024

Print Date 03/16/2024

### Prevention:

P261 Avoid breathing mist.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear eye protection/ face protection.

### Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.

### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P410 + P403 Protect from sunlight. Store in a well-ventilated place.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Additional Labeling

There are no ingredients with unknown acute toxicity used in a mixture at a concentration  $\geq 1\%$ .

### Other hazards

Intentional misuse by deliberate concentration and inhalation of vapor may be harmful or fatal.

---

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Mixtures

#### Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
acetone	67-64-1	Flam. Liq. 2; H225 Eye Irrit. 2A; H319 STOT SE 3; H336	$\geq 50 - < 70$
isobutane	75-28-5	Flam. Gas 1; H220	$\geq 20 - < 30$
propane	74-98-6	Flam. Gas 1; H220	$\geq 10 - < 20$

Actual concentration is withheld as a trade secret

---

## SECTION 4. FIRST AID MEASURES

## Gun Cleaner

Revision Date 03/14/2024

Print Date 03/16/2024

General advice	:	Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air.
In case of skin contact	:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	irritant effects Respiratory disorder Excessive lachrymation Loss of balance Vertigo Causes serious eye irritation. May cause drowsiness or dizziness.
Notes to physician	:	Treat symptomatically.

---

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray jet Dry powder Foam Carbon dioxide (CO <sub>2</sub> )
Unsuitable extinguishing media	:	Water High volume water jet
Further information	:	Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus.

## Gun Cleaner

Revision Date 03/14/2024

Print Date 03/16/2024

---

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Deny access to unprotected persons.
- Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.  
Local authorities should be advised if significant spillages cannot be contained.

---

### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
Do not spray on a naked flame or any incandescent material.  
Take precautionary measures against electrostatic discharges.
- Advice on safe handling : Do not breathe vapors or spray mist.  
Avoid exceeding the given occupational exposure limits (see section 8).  
Do not get in eyes, on skin, or on clothing.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharge.  
Open drum carefully as content may be under pressure.  
Follow standard hygiene measures when handling chemical products.
- Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 122 °F. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.  
Store in original container.  
Keep in a well-ventilated place.  
Observe label precautions.  
Store in accordance with local regulations.
- Materials to avoid : Explosives  
Poisonous gases  
Poisonous liquids  
Radioactive Substances

---

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

## Gun Cleaner

Revision Date 03/14/2024

Print Date 03/16/2024

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
acetone	67-64-1	TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH
		TWA	1,000 ppm 2,400 mg/m <sup>3</sup>	OSHA Z-1
		TWA	750 ppm 1,800 mg/m <sup>3</sup>	OSHA P0
		STEL	1,000 ppm 2,400 mg/m <sup>3</sup>	OSHA P0
isobutane	75-28-5	STEL	1,000 ppm	ACGIH
propane	74-98-6	TWA	1,000 ppm 1,800 mg/m <sup>3</sup>	OSHA Z-1
		TWA	1,000 ppm 1,800 mg/m <sup>3</sup>	OSHA P0

The above constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

**Engineering measures** : Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.  
The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

### Personal protective equipment

**Respiratory protection** : Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

**Skin and body protection** : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

## Gun Cleaner

Revision Date 03/14/2024

Print Date 03/16/2024

Hygiene measures : Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and immediately after handling the product.  
Remove respiratory and skin/eye protection only after vapors have been cleared from the area.  
Remove contaminated clothing and protective equipment before entering eating areas.

---

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Chemicals under pressure

Color : colorless

Odor : acetone-like

Odor Threshold : No data available

pH : ca. 5 - 6 (68 °F / 20 °C)  
Concentration: 39.5 %

Melting point/range / Freezing point : No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : Extremely flammable aerosol.

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : 8300 hpa

Relative vapor density : No data available

Density : ca. 0.65 g/cm<sup>3</sup> (73 °F / 23 °C)

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available



## Gun Cleaner

Revision Date 03/14/2024

Print Date 03/16/2024

---

Autoignition temperature	:	> 464 °F / > 240 °C
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	0.32 mPa.s (68 °F / 20 °C)
Viscosity, kinematic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Volatile organic compounds (VOC) content	:	Not applicable

---

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	No data available
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

---

### SECTION 11. TOXICOLOGICAL INFORMATION

Not classified due to lack of data.

#### **Skin corrosion/irritation**

Not classified due to lack of data.

#### **Serious eye damage/eye irritation**

Causes serious eye irritation.

#### **Respiratory or skin sensitization**

##### **Skin sensitization**

Not classified due to lack of data.

##### **Respiratory sensitization**

Not classified due to lack of data.

##### **Germ cell mutagenicity**

Not classified due to lack of data.

## Gun Cleaner

Revision Date 03/14/2024

Print Date 03/16/2024

### Carcinogenicity

Not classified due to lack of data.

**IARC** Not applicable

**OSHA** Not applicable

**NTP** Not applicable

### Reproductive toxicity

Not classified due to lack of data.

### STOT-single exposure

May cause drowsiness or dizziness.

### STOT-repeated exposure

Not classified due to lack of data.

### Aspiration toxicity

Not classified due to lack of data.

---

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

#### acetone:

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 530 mg/l

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Additional ecological information : Do not empty into drains; dispose of this material and its container in a safe way.  
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Gun Cleaner

Revision Date 03/14/2024

Print Date 03/16/2024

### Global warming potential

**Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) of the United Nations Framework Convention on Climate Change (UNFCCC)**

#### Components:

##### propane:

20-year global warming potential: 0.072  
100-year global warming potential: 0.02  
500-year global warming potential: 0.006  
Atmospheric lifetime: 0.036 yr  
Radiative efficiency: 0 Wm<sup>2</sup>ppb  
Further information: Miscellaneous compounds

---

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

- Waste from residues : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

---

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

- UN/ID No. : UN 1950  
Proper shipping name : Aerosols, flammable  
Class : 2.1  
Packing group : Not assigned by regulation  
Labels : Flammable Gas  
Packing instruction (cargo aircraft) : 203  
Packing instruction (passenger aircraft) : 203

#### IMDG-Code

- UN number : UN 1950  
Proper shipping name : AEROSOLS  
Class : 2.1  
Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U  
Marine pollutant : no

## Gun Cleaner

Revision Date 03/14/2024

Print Date 03/16/2024

Remarks : Transport according to chapter 3.4 (LQ) possible

### Domestic regulation

#### 49 CFR

UN/ID/NA number : UN 1950  
Proper shipping name : Aerosols  
Class : 2.1  
Packing group : Not assigned by regulation  
Labels : FLAMMABLE GAS  
ERG Code : 126  
Marine pollutant : no

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## SECTION 15. REGULATORY INFORMATION

**TSCA list** : All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)
acetone	67-64-1	5000

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Gases under pressure  
Serious eye damage or eye irritation  
Specific target organ toxicity (single or repeated exposure)

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act


This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

## Gun Cleaner

Revision Date 03/14/2024

Print Date 03/16/2024

### California Prop. 65

 **WARNING:** This product can expose you to chemicals including benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

---

## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
OSHA P0 / TWA	:	8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
OSHA Z-1 / TWA	:	8-hour time weighted average

### Notes to Reader

The data contained herein are furnished for information only and are believed to be reliable. However, Todol Products (hereafter Todol) does not assume responsibility for any results obtained by persons over whose methods Todol has no control. It is the user's responsibility to determine the suitability of Todol's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Todol specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Todol's products. Todol further disclaims any liability for consequential or incidental damages of any kind, including lost profits. This Safety Data Sheet has been generated based on OSHA Hazard Communication Standard (29 CFR 1910.1200) and provides information in accordance with U.S. federal law only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Todol for additional assistance.

Revision Date 03/14/2024

100000030189  
US / Z8