

Material Safety Data Sheet

Pur Fill 1G Cold Weather

IDENTIFICATION

Product Names: Pur Fill 1G Cold Weather

Manufacturer: HAGO
Chemotechnik GmbH&Co. KG
Bodenseestrasse 217
D-81243 Muehen, Germany
Phone No: 011 49 89 897702-0
Fax No: 011 49 89 879321

U.S. Distributor: Todol Products
P.O. Box 398
20 Charles Street
Natick, MA 01760
Phone No: 800-252-3818
Fax No: 508-651-0729

Product Overview: Pur Stick is a moisture curing urethane foam packaged in pressurized cans. The propellants are in compliance with the Montreal Protocol.

EMERGENCY INFORMATION

For general chemical information call Todol Products
(800) 252-3818, fax (508) 651-3818

For chemical emergency call Infotrac:
(USA): (800) 535-5053

For international transportation emergencies call Infotrac:
(352) 323-3500

COMPONENTS (hazardous materials)

<u>Chemical Name</u>	<u>CAS Number</u>	<u>% range</u>	<u>TLV</u>
Diphenylmethane 4,4' disocyanate (MDI)	101-68-8	5 – 10	.005 ppm
Dimethyl ether	115-10-6	2.5 - 10	1000 ml/m ³
Butane	106-97-8	2.5 – 10	1000 ml/m ³
Tetrafluoroethane	811-97-2		Dupont AEL 1000ppm
Tris(2-chlorisopropyl) phosphat	13674-84-5	15 - 25	

CHEMICAL AND PHYSICAL PROPERTIES

Appearance:	Light yellow foam	
Odor:	Weak odor during curing stage.	
Boiling point:	For the aerosol not applicable.	
Gravity:	Approximately .9 – 1.0 g/cm ³	
Flash Point:	Not applicable as aerosol	
Vapor pressure:	At 20° C, 79.8 psi (5.5 bar) – 87 psi (6 bar)	
Water solubility:	Fresh and cured foam insoluble	
Explosion Data:	Product is not explosive, however, formation of explosive air/steam mixtures is possible.	
	Critical values for explosion:	Applicable for the propellant
	Lower:	1.5 Vol.%
	Upper:	18.6 Vol.%

PRODUCT CARE AND USAGE

- Storage:** Cans should be stored in a cool dry location, ideally in a temperate range from 18° C (64° F) to 22° C (72° F) for maximum shelf life. The product should never be stored in direct sunlight, in temperatures exceeding 50° C (120° F), or freezing temperature ranges. Cans of the product should be kept out of the reach of children and not abused.
- Usage:** Read all instructions and information on can label. In colder climates , cans should be warmed to room temperature before use. Due to production of flammable vapor, provide sufficient ventilation. Do not smoke, or use near an open flame or incandescent objects. Protective clothing, goggles and chemical resistant gloves are advised to avoid bodily contact with foam. Wash hands after use.
- Disposal:** Do not burn or pierce cans. Dispose of in proper manner in accordance with guidelines for plastic and metal waste. Cured foam is non-hazardous.
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POTENTIAL HAZARDS, PREVENTION, AND TREATMENT

Carcinogenity No ingredients are listed by IARC, NTP or OSHA as carcinogens.

- Skin:** Contact may cause irritation and/or sensation. Repeated or continued exposure may cause heightened sensitivity, rash or swelling.
- Prevention:** Use protective clothing and chemical resistant gloves.
- Treatment:** Remove uncured foam with mineral spirits, paint thinner, acetone such as Pur Clean or nail polish remover, and soap and water. Cured foam can be removed by abrasion, wear, and scrubbing with soap and water.
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- Eyes:** Direct contact can adhere to eyes and may cause irritation.
- Prevention:** Wear protective goggles while foaming.
- Treatment:** If foam comes in contact with eyes, flush thoroughly with water and contact physician.
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- Inhalation:** Vapor may cause dizziness, headache, or grogginess. Components in the vapor also may irritate mucous membranes and depending on exposure and sensitivity can lead to coughing, an asthma-like reaction, bronchitis, and/or pulmonary edema.
- Prevention:** Ventilate foaming area.
- Treatment:** Get away from vapors and go to fresh air. In extreme cases oxygen or artificial respiration may be necessary.
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Ingestion: Can irritate mucous membranes and/or damage digestion tract.

Treatment: DO NOT INDUCE VOMITING. Wash out the mouth with water; do not swallow. Consult physician immediately; provide chemical information on can.

FIREFIGHTING INFORMATION

Extremely high temperatures could cause pressurized cans to burst. Endangered containers may be cooled with water spray jet.

Released propellants could cause toxic gases including CO (carbon monoxide), and CO₂ along with hydrogen fluoride and hydrogen chloride. Firefighters should therefore wear self-contained breathing apparatus.

To extinguish use the following: extinguishing powder, alcohol-resistant foam, halon 1211, carbon dioxide or water jet (water contact will produce CO₂ under these circumstances).

Cured foam will burn if in contact with an open flame, but is self-extinguishing.

Flammability test ASTM E 84 / Flame Spread Index: 25 / Smoke Density: 210

REGULATORY AGENCIES

Pur Stick is in compliance with Toxic Substances Control Act (TSCA), SARA Title III. It is also ASTM tested and USDA approved.

SHIPPING INFORMATION

Ground: Consumer Commodity ORM-D. (DOT-E 10131 for over 31 oz.)

Air: Not transportable by air.

Water Aerosol. No label for hazardous material required, although boxes should be marked as Aerosols UN 1950. Non- Flammable 2.2 UN (with a capacity of less than 1000 cu. cm.)

Emergency: Response Guide No.: Consumer Commodity 171 (Aerosols #126)

REACTIVITY DATA

Stability:	Stable
Incompatibility:	Water, alcohols, strong alkalis, alkaline metal compounds for uncured foam
Hazardous Combustion Products:	Carbon Monoxide, hydrogen cyanide, Nitrogen Oxides
Hazardous polymerization:	Will not occur
Conditions to avoid:	Moisture will cause the foam to cure

OTHER PHYSICAL PROPERTIES

Density:	1.2 lbs./cu. ft.
Cell structure:	Excessively closed, Approx. 80%
Compression load deflection (10%) compression:	8.5 lbs./in ²
Tack-free @ 68° F (20° C)	10 min.
Cutable @ 68° F (20° C)	20 min.
Thermal resistance: R factor ASTM C 518	6.0/in.

STATEMENT OF LIABILITY

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