



# Right to Know Hazardous Substance Fact Sheet

**Emergency  
Responders  
Quick Reference**

Common Name: **DIPROPYLENE GLYCOL METHYL ETHER**

Synonyms: Dowanol® DPM; DPGME

CAS No: 34590-94-8

Molecular Formula: C<sub>7</sub>H<sub>16</sub>O<sub>3</sub>

RTK Substance No: 0804

Description: Colorless liquid with a mild and pleasant odor

## HAZARD DATA

Hazard Rating	Firefighting	Reactivity
<b>2 - Health</b> <b>2 - Fire</b> <b>0 - Reactivity</b> <b>DOT#:</b> None <b>ERG Guide #:</b> None <b>Hazard Class:</b> None	<b>Dipropylene Glycol Methyl Ether</b> is a COMBUSTIBLE LIQUID. Use dry chemical, CO <sub>2</sub> , water spray, alcohol-resistant foam or other foam as extinguishing agents. <b>POISONOUS GASES ARE PRODUCED IN FIRE.</b> Use water spray to keep fire-exposed containers cool.	<b>Dipropylene Glycol Methyl Ether</b> will react with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE) to cause fires and explosions. May form explosive <i>Peroxides</i> on contact with AIR. Attacks METALS to form flammable and explosive <i>Hydrogen gas</i> .

## SPILLS/LEAKS

### Isolation Distance:

Small Spills: 50 meters (200 feet)

Large Spills: 270 meters (900 feet)

Fire: 800 meters (1/2 mile)

Absorb liquids in vermiculite, dry sand, earth, or a similar material and deposit in sealed containers.

May be toxic to aquatic life.

## PHYSICAL PROPERTIES

<b>Odor Threshold:</b>	35 ppm
<b>Flash Point:</b>	180°F (82°C)
<b>LEL:</b>	1.1%
<b>UEL:</b>	3.0%
<b>Auto Ignition Temp:</b>	518°F (270°C)
<b>Vapor Density:</b>	5.1 (air = 1)
<b>Vapor Pressure:</b>	0.28 mm Hg at 68°F (20°C)
<b>Specific Gravity:</b>	0.95 (water = 1)
<b>Water Solubility:</b>	Miscible
<b>Boiling Point:</b>	408°F (209°C)
<b>Molecular Weight:</b>	148.2

## EXPOSURE LIMITS

<b>OSHA:</b>	100 ppm, 8-hr TWA
<b>NIOSH:</b>	100 ppm, 10-hr TWA 150 ppm, 15-min STEL
<b>ACGIH:</b>	100 ppm, 8-hr TWA 150 ppm, 15-min STEL
<b>IDLH LEVEL:</b>	600 ppm

## PROTECTIVE EQUIPMENT

<b>Gloves:</b>	Butyl and Nitrile (>8-hr breakthrough)
<b>Coveralls:</b>	DuPont <i>Tychem® CPF 4</i> , or equivalent for <i>hydroxylic compounds</i> (>8-hr breakthrough)
<b>Respirator:</b>	>100 ppm - full facepiece APR with an organic vapor cartridge >600 ppm - SCBA

## HEALTH EFFECTS

<b>Eyes:</b>	Irritation
<b>Skin:</b>	Irritation
<b>Inhalation:</b>	Nose and throat irritation Headache, dizziness, lightheadedness and passing out

## FIRST AID AND DECONTAMINATION

<b>Remove</b>	the person from exposure.
<b>Flush</b>	eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn.
<b>Remove</b>	contaminated clothing and wash contaminated skin with soap and water.
<b>Begin</b>	artificial respiration if breathing has stopped and CPR if necessary.
<b>Transfer</b>	to a medical facility.