

# Material Safety Data Sheet

Déoban

## Section 1. Chemical product and company identification

**Common name** : Déoban  
**Material uses** : Perfume.  
**Supplier/Manufacturer** : V-TO Inc. 2975, Nelson, Saint-Hyacinthe, QC J2S 1Y5  
Tél: (450) 774-6849 Fax:(450) 774-4334  
**In case of emergency** : 9 1 1 or Canutec (6 1 3) 996-6666

## Section 2. Hazards identification

**Physical state** : Liquid.  
**Emergency overview** : WARNING!  
CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.  
FLAMMABLE LIQUID AND VAPOR.  
VAPOR MAY CAUSE FLASH FIRE.  
MAY BE HARMFUL IF SWALLOWED.  
Do not ingest. Avoid contact with skin and clothing. Avoid breathing vapor or mist.  
Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.  
**The hazards describe in this document refers to the concentrated form of the product. In normal use, only a diluted solution is used which minimize the risks for the users.**

**Routes of entry** : Dermal contact. Eye contact. Ingestion.  
**Potential acute health effects**  
**Eyes** : Irritating to eyes.  
**Skin** : Irritating to skin.  
**Inhalation** : Irritating to respiratory system.  
**Ingestion** : May be harmful if swallowed.  
**Potential chronic health effects** : Carcinogenic effects: Classified None. by OSHA [Propan-2-ol]. Classified A4 (Not classifiable for humans or animals.) by ACGIH, 3 (Not classifiable for humans.) by IARC [Propan-2-ol].  
Mutagenic effects: Classified None. for humans [Propan-2-ol].  
Teratogenic effects: Not available.  
**Medical conditions aggravated by over-exposure** : Repeated or prolonged exposure is not known to aggravate any medical condition.  
See toxicological information (section 11)

## Section 3. Composition, Information on Ingredients

	CAS number	% by weight
<b>Canada</b>		
Propan-2-ol	67-63-0	30 - 40
Tergitol NP-33 (Non-ionic)	9016-45-9	1 - 3

This material is classified hazardous under the WHMIS Controlled Product Regulation in Canada.  
See Chapters 8, 11 and 14 for details.

## Section 4. First aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Get medical attention if symptoms occur.
- Inhalation** : Get medical attention if symptoms appear. If inhaled, remove to fresh air. If not breathing, give artificial respiration.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Notes to physician** : No specific antidote. Medical staff must contact Poison Control Center.

## Section 5. Fire fighting measures

- Flammability of the product** : Flammable.
- Auto-ignition temperature** : The lowest known value is 399°C (750.2°F) (Propan-2-ol).
- Flash point** : Closed cup: 22.5°C (72.5°F). (Tagliabue.)
- Flammable limits** : Lower: 2% Upper: 12%
- Products of combustion** : These products are carbon oxides.
- Fire hazards in the presence of various substances** : Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.  
Flammable in the presence of the following materials or conditions: heat and shocks and mechanical impacts.
- Fire-fighting media and instructions** : Use dry chemical, carbon dioxide, water spray (fog) or foam.
- Extremely flammable liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

- Personal precautions** : Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment. Do not touch or walk through spilled material.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : For small spills, add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion-proof means to transfer material to a sealable, appropriate container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

## Section 7. Handling and storage

- Handling** : Do not ingest. Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing vapor or mist. Keep away from heat, sparks and flame. Wash thoroughly after handling.
- Storage** : Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

## Section 8. Exposure controls, personal protection

**Engineering controls** : Good general ventilation should be sufficient to control airborne levels.

**Personal protection**

**Eyes** : Splash goggles.



**Respiratory** : Not required if handle in a ventilated enclosure.  
**Hands** : Natural rubber (latex).



**Skin/Body** : Lab coat or appropriate clothing.



**Personal protection in case of a large spill** : Wear appropriate personal protective equipment.

**Product name**

**Exposure limits**

**Canada**

Propan-2-ol

**ACGIH TLV (Canada, 1/2004).**

STEL: 400 ppm 15 minute/minutes. Form: All forms.  
 TWA: 200 ppm 8 hour/hours. Form: All forms.

Consult local authorities for acceptable exposure limits.

## Section 9. Physical and chemical properties

**Physical state** : Liquid.  
**Odor** : Country.  
**pH** : 7.2 [Neutral.]  
**Boiling/condensation point** : 82°C (179.6°F)  
**Melting/freezing point** : Weighted average: -54.11°C (-65.4°F)  
**Specific gravity** : 0.9 (Water = 1)  
**Vapor pressure** : Weighted average: 3.58 kPa (26.85 mm Hg) (at 20°C)  
**Vapor density** : Weighted average: 1.5 (Air = 1)  
**Volatility** : 99% (v/v)  
**Evaporation rate** : 1.7 (Propan-2-ol) compared with Butyl acetate.  
**VOC** : 64 (%)  
**Ionicity (in water)** : Amphoteric. (Water).  
**Dispersibility properties** : See solubility in water, methanol, acetone.  
**Solubility** : Easily soluble in cold water, hot water, methanol, acetone.

## Section 10. Stability and reactivity

**Stability and reactivity** : The product is stable.  
**Incompatibility with various substances** : Reactive with oxidizing materials.  
**Hazardous polymerization** : Will not occur.

## Section 11. Toxicological information

### Toxicity data

Ingredient name	Test	Result	Route	Species
Propan-2-ol	LD50	5045 mg/kg	Oral	Rat
	LD50	6410 mg/kg	Oral	Rabbit
	LD50	3600 mg/kg	Oral	Mouse
	LD50	12800 mg/kg	Dermal	Rabbit
	LC50	16000 ppm (8 hour/hours)	Inhalation	Rat
Tergitol NP-33 (Non-ionic)	LD50	1310 mg/kg	Oral	Rat
<b>Eyes</b>	: Irritating to eyes.			
<b>Skin</b>	: Irritating to skin.			
<b>Inhalation</b>	: Irritating to respiratory system.			
<b>Ingestion</b>	: May be harmful if swallowed.			
<b>Potential chronic health effects</b>	: Carcinogenic effects: Classified None. by OSHA [Propan-2-ol]. Classified A4 (Not classifiable for humans or animals.) by ACGIH, 3 (Not classifiable for humans.) by IARC [Propan-2-ol]. Mutagenic effects: Classified None. for humans [Propan-2-ol]. Teratogenic effects: Not available.			

## Section 12. Ecological information

### Ecotoxicity data

Ingredient name	Species	Period	Result
Propan-2-ol	Pimephales promelas (EC50)	48 hour/hours	10000 mg/l
	Lepomis macrochirus (LC50)	96 hour/hours	>1400 mg/l
	Pimephales promelas (LC50)	96 hour/hours	6550 mg/l
	Pimephales promelas (LC50)	96 hour/hours	9640 mg/l
	Pimephales promelas (LC50)	96 hour/hours	10400 mg/l
	Pimephales promelas (LC50)	96 hour/hours	11130 mg/l
Tergitol NP-33 (Non-ionic)	Lepomis macrochirus (LC50)	96 hour/hours	1.3 mg/l
	Oncorhynchus mykiss (LC50)	96 hour/hours	4.7 mg/l
	Lepomis macrochirus (LC50)	96 hour/hours	7.6 mg/l
	Lepomis macrochirus (LC50)	96 hour/hours	7.9 mg/l
	Lepomis macrochirus (LC50)	96 hour/hours	>10 mg/l
	Lepomis macrochirus (LC50)	96 hour/hours	>1000 mg/l

**Products of degradation** : These products are carbon oxides and water.

## Section 13. Disposal considerations

**Waste disposal** : Dispose of according to all federal, state and local applicable regulations.

Consult your local or regional authorities.

## Section 14. Transport information

### Classification

TDG/ IMDG/ IATA : UN number	Proper shipping name	Class	Packing group
UN1993	FLAMMABLE LIQUIDS, N.O.S. (Propan-2-ol)	3	II

## Label

TDG



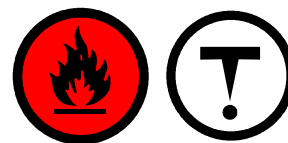
## Additional information

## Section 15. Regulatory information

## Canada

## WHMIS (Canada)

- : Class B-2: Flammable liquid
- : Class D-2B: Material causing other toxic effects (Toxic).



DSL : All components listed.

## International regulations

## International lists

- : All components listed are listed on major international inventories or exempted from being listed in Australia (AICS), Europe (EINECS/ELINCS), Korea (TCCL), Japan (METI/MOL), Philippines (RA6969).

## Section 16. Other information

Hazardous Material  
Information System (U.S.A.)

Health	1
Fire hazard	2
Reactivity	0
Personal protection	C

National Fire Protection  
Association (U.S.A.)

## References

- : ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987.
- : Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2002.

## Date of issue

: 09/09/2005

## Date of previous issue

: Not available.

## Version

: 1.1

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.