

Material Safety Data Sheet acc. to the Controlled Products Regulation

11/28/2016

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1 Identification

· **Product identifier**

- **Trade name:** *ALPHADYNE PLUS Germicidal Disinfectant Deodorant (aerosol)*
- **Article number:** 1984760001
- **Recommended use:** Hard surface cleaner and disinfectant
- **Restrictions on use:** All other uses than those indicated on the product label and technical data sheet
- **Manufacturer:**
Avmor LTD
950, Michelin
Laval, QC, H7L 5C1
Canada
1-800-387-8074
www.avmor.com
- **Client Identification Number:** 119100

2 Hazard(s) identification

· **WHMIS Classification of the mixture**

A - Compressed gas

D2A - Very toxic material causing other toxic effects



· **Additional information:**

This product is registered as a drug according to the Food and Drugs Act (R.S.C., 1985, c. F-27). It is not regulated under the Hazardous Products Act (R.S.C., 1985, ch. H-3).

· **Hazard-determining components of labeling:**

isobutane (containing $\geq 0,1\%$ butadiene (203-450-8))

Ethanol

Propylene Glycol Monomethyl Ether

biphenyl-2-ol

· **Precautionary statements:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not pierce or burn, even after use.

Do not spray on an open flame or other ignition source.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or a doctor if you feel unwell.

IF ON SKIN: Wash with plenty of water.

IF exposed or concerned: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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

Dispose of contents and container in accordance with local, regional and national regulations.

· **WHMIS-symbols:**

A - Compressed gas

B5 - Flammable aerosol

D2A - Very toxic material causing other toxic effects

· **Classification system:**

· **NFPA ratings (scale 0 - 4):**



Health = 1

Fire = 3

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *1

Fire = 3

Reactivity = 0

· **Hazard not otherwise classified:** None Known

· **Notes:** For the wording of the listed abbreviations refer to section 16.

· **Product AT USE DILUTION:** N/A

3 Composition/information on ingredients

· **Components:**

C A S N o .

Concentration

D e s c r i p t i o n

C A S N o .	Concentration	Description
	Patent	25-50%
64-17-5	Ethanol	25-50%
75-28-5	isobutane (containing ≥ 0,1% butadiene (203-450-8))	10-<25%
74-98-6	propane	2.5-<10%
107-98-2	Propylene Glycol Monomethyl Ether	2.5-<10%
90-43-7	biphenyl-2-ol	0.1-≤2.5%

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4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation. Get medical attention.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After ingestion:** If symptoms persist consult a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed:**
No further relevant information available.

5 Fire-fighting measures

- **Suitable extinguishing media:**
- **Suitable extinguishing media:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Specific hazards arising from the product:** No further relevant information available.
- **Advice for firefighters:**
- **Special protective equipment and precautions for fire-fighters:** No special measures required.
- **Additional information:** See -Section 9- for the flammability characteristics of this product.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
Wear recommended protective equipment(s). Keep unprotected persons away.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **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:**
Ensure good ventilation at the workplace.
Open and handle receptacle with care.
- **Information about protection against explosions and fires:**
Do not spray on a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

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· **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 oxidizing agents.

· **Conditions for safe storage, including any incompatibilities:**

Keep in the original receptacle tightly sealed.

Do not gas tight seal receptacle.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Store under lock and key and out of the reach of children.

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

8 Exposure controls/personal protection

· **Control parameters:**

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

64-17-5 Ethanol

EL (Canada) Short-term value: 1000 ppm

EV (Canada) Long-term value: 1.900 mg/m³, 1.000 ppm

75-28-5 isobutane (containing ≥ 0,1% butadiene (203-450-8))

EV (Canada) Long-term value: 800 ppm

74-98-6 propane

EL (Canada) Long-term value: 1000 ppm

EV (Canada) Long-term value: 1.000 ppm

107-98-2 Propylene Glycol Monomethyl Ether

EL (Canada) Short-term value: 75 ppm

Long-term value: 50 ppm

EV (Canada) Short-term value: 550 mg/m³, 150 ppm

Long-term value: 365 mg/m³, 100 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls:**

· **Undiluted Product:**

· **Personal protective equipment:**



Protective gloves (See Protection of Hands)

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Safety goggles (see Eye protection)



Respiratory protective equipment (See Breathing equipment)

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Be sure to clean skin thoroughly after work and before breaks.

Do not store food in the working area.

· **Breathing equipment:**

Use suitable respiratory protective device when high concentrations are present.

If room is well-ventilated, a respirator is not needed under normal and intended conditions of product use.

· **Protection of hands:** Protective Gloves

· **Eye protection:** Wear splash-proof chemical goggles

· **Body protection:**

Protective work clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. (recommended)

9 Physical and chemical properties

· **Information on basic physical and chemical properties:**

· **General Information:**

· **Appearance:**

· **Form:** Aerosol

· **Colour:** Colorless

· **Odour:** Characteristic

· **Odor threshold:** Not determined.

· **pH-Value:** 9.5 - 10.0

· **Change in condition:**

· **Melting point/Melting range:** Undetermined.

· **Boiling point/Boiling range:** N/D

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

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

· **Ignition temperature:** N/D

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

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

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· Explosion limits:	
· Lower:	N/D
· Upper:	N/D
· Vapour pressure: N/D	
· Relative density:	0.84 - 0.87
· Vapour density (air=1):	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.
· Solvent content:	
· Organic solvents:	N/D
· VOC content:	N/D

10 Stability and reactivity

- **Reactivity:** Not determined.
- **Chemical stability:**
 - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
In case of decomposition: carbon monoxide and carbon dioxide and traces of volatile halogenated compounds.

11 Toxicological information

- **Information on the likely routes of exposure:**
 - **Acute toxicity:**
 - **Numerical measures of toxicity:**

· Components		Type	Value (Species)
Mean of exposure			
ATE (Acute Toxicity Estimates)			
Oral	LD50		80192 mg/kg (Rat)
Dermal	LD50		200000 mg/kg (Rat)
64-17-5 Ethanol			
Oral	LD50		7060 mg/kg (Rat)
Inhalative	LC50 (4 h)		20000 mg/L (Rat)
107-98-2 Propylene Glycol Monomethyl Ether			
Oral	LD50		4016 mg/kg (Rat) (EU Method B.1)
Dermal	LD50		13000 mg/kg (Rabbit)

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90-43-7 biphenyl-2-ol

Oral	LD50	2000 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rat)

· **Symptomes related to the physical, chemical and toxicological characteristics:**

- **If on the skin:** Irritant to skin and mucous membranes.
- **If on the eye:** Irritating effect.
- **After ingestion:** May cause irritation of the gastrointestinal tract, nausea, vomiting and headache.
- **Sensitization:** No sensitizing effects known.

· **Delayed and immediate effects, and chronic effects from short-term and long-term exposure:**

Prolonged or frequent contact can cause eczema and inflammation of the skins as a results of degreasing.

· **Carcinogenic categories:**

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

64-17-5	Ethanol	1
90-43-7	biphenyl-2-ol	3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

107-98-2 Propylene Glycol Monomethyl Ether

LC50 (96 h, OECD guideline 203) (Static)	23300 mg/L (daphnia magna [water flea]) (Environ. Sci. Research. Test Method No. ESR-ES-15)
	20800 mg/L (pimephales promelas [fathead minnow]) (Pimephales promelas (96h))

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

· **Remark:** Harmful to fish (Product as sold).

· **General notes:**

Germany: Water hazard class 3 (Self-assessment): extremely hazardous for water.

Germany: Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Germany: Danger to drinking water if even extremely small quantities leak into the ground.

Harmful to aquatic organisms

13 Disposal considerations

· **Waste treatment methods:**

· **Recommendation:**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with local authority requirements.

Dispose in accordance with all applicable federal, state, provincial and local laws and regulations. Contact your local, state, provincial or Federal environmental agency for specific rules.

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- **Uncleaned packagings:**
- **Recommendation:**
Do not re-use empty containers.
Dispose of packaging according to regulations on the disposal of packagings.
- **Recommended cleansing agent:**
Water
Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14 Transport information

Not regulated under TDG (Canada).

· UN-Number	
· DOT, IMDG, IATA	UN1950
· UN proper shipping name	
· DOT/TDG	Aerosols, flammable
· ADR	UN1950 Aerosols
· IMDG	AEROSOLS
· IATA	AEROSOLS, flammable
· Transport hazard class(es)	
· IMDG, IATA	
· Class	2.1
· Label	2.1
· Packing group	
· DOT, ADR, IMDG, IATA	Not regulated.
· Environmental hazards:	Not applicable.
· Transport in bulk according to Annex II of MARPOL/73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Transport category	2
· Tunnel restriction code	D
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity

15 Regulatory information

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**

· Chemicals known to cause reproductive toxicity for females:	
	None of the ingredients is listed.

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· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients is listed.		
· Chemicals known to cause developmental toxicity:		
64-17-5	Ethanol	
· TLV (Threshold Limit Value established by ACGIH)		
64-17-5	Ethanol	A3
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		
· Canadian Domestic Substances List (DSL)		
64-17-5	Ethanol	
75-28-5	isobutane (containing $\geq 0,1\%$ butadiene (203-450-8))	
74-98-6	propane	
107-98-2	Propylene Glycol Monomethyl Ether	
90-43-7	biphenyl-2-ol	

· **National regulations:**

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.
Exceptions can be made by the authorities in certain cases.

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. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

· **Department issuing SDS:**

Prepared by :

Regulatory Affairs Department

· **Date of creation/last revision:** 09/23/2016

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (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

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health