

Section 1. Identification

Product identifier :	Z-AIR
Other means of identification :	Codes : 90266, 90267, 90268
Recommended use and restrictions on use :	Liquid deodorant
Supplier identifier :	Les Produits Sanitaires Lépine inc. 1105 Bersimis Chicoutimi, Qc G7K 1A4 Phone : 418-545-0794 www.produitslepine.com
Emergency telephone number :	CANUTEC : +1-613-996-6666 or *666 (cell phone) 24/7

Section 2. Hazard identification

Hazard classification of substance or mixture :	FLAMMABLE LIQUIDS – Category 3 SKIN IRRITATION – Category 2 EYE DAMAGE – Category 1 SENSITIZATION – SKIN – Category 1 REPRODUCTIVE TOXICITY – Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) – Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) – Category 3
--	--

Label elements

Symbol :



Signal word :

Danger

Hazard statement(s) :

Flammable liquid and vapour. Causes skin irritation and serious eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. May cause damage to organs. May cause drowsiness or dizziness.

Precautionary statement(s)

Prevention :

Keep away from heat, sparks, open flames, hot surfaces. No smoking. Keep container tightly closed. Do not breathe vapours or spray. Wash hand thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves and eye protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Response :

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash skin with plenty of water. Wash clothes before reuse. If skin irritation or rash occurs: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER. IF exposed or concerned: Call a POISON CENTER. In case of fire: Use carbon dioxide or dry chemical to extinguish.

Storage :

Store locked up in cool and well-ventilated place. Keep container tightly closed.

Disposal :

Dispose of contents and container in accordance with local regulations.

Section 3. Composition/information on ingredients

Substance/material : Mixture

Chemical name	Common name	% (w/w)	CAS number
Isopropyl Alcohol	IPA	10 – 30	67-63-0
Ethyl Alcohol	Ethanol	10 – 30	64-17-5
Methyl Alcohol	Methanol	1 – 5	67-56-1
Alcohol ethoxylate C9-11		1 – 5	68439-46-3
Fragrance		1 – 5	N/A

The actual concentration or concentration range is withheld as a trade secret.

Based on current knowledge of the supplier and in the concentrations applicable, no other ingredients present are classified as hazardous to health or the environment, therefore would require reporting in this section.

Occupational exposure limits, where available, are listed in section 8.

Section 4. First-aid measures

First-aid measures by route of exposure :

- Eye contact :** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or a doctor.
- Inhalation :** Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER if you feel unwell.
- Skin contact :** Take off immediately all contaminated clothing. Wash skin with plenty of water. Wash clothes before reuse. If skin irritation or rash occurs: Get medical advice or attention.
- Ingestion :** Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Rinse mouth with water. Drink water to dilute material in stomach. Consult a doctor or poison center.

Most important symptoms and effects (acute or delayed)

- Eye contact :** Causes serious eye irritation. Adverse symptoms may include pain, tearing, conjunctivitis, corneal injury.
- Inhalation :** May cause drowsiness or dizziness. Adverse symptoms may include respiratory tract irritation, dizziness, choking, and coma.
- Skin contact :** Causes skin irritation. Adverse symptoms may include: pain or irritation, dermatitis.
- Ingestion :** May cause intestinal disturbances, drowsiness or dizziness. Causes of serious damage to the optic nerve and central nervous system. Adverse symptoms may include gastrointestinal irritation, nausea, vomiting, diarrhea, coma, blindness, and death.

Immediate medical attention and special treatment, if necessary

- Note to physician :** Symptomatic treatment required. Contact the poison treatment specialist immediately if large amounts have been ingested or inhaled.
- Specific treatments :** No special treatment.
- Protection of first responders :** See section 8.

See toxicological information (section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media :** CO₂, dry chemicals. Do not use water jet to fight fire.
- Unsuitable extinguishing media :** None known.

Specific hazard arising from the hazardous product :

- Hazardous combustion products :** Decomposition products may include and are not limited to the following: carbon oxides.
- Precautions for fire-fighters :** No special measures are required.
- Protective equipment for fire-fighters :** It is important that firefighters wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a positive pressure face shield.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures :

Use appropriate personal protective equipment : respiratory protection, protective clothing, gloves and eye protection (see Section 8)

Methods and materials for containment and cleaning up :

Contain spill for neutralization, in order to prevent environmental contamination. Flammable liquid, eliminate sources of heat. Keep away from sewers or waterways. The small quantities must be removed, wiped and used, when it's possible. For general purpose cleaning, or drain in the sanitary sewers if the municipal and provincial regulations permit it. Recover the abundant quantities with vermiculite, clay or all other absorbent, and eliminate as industrial waste. If the product flowed in the nature inform the municipal, provincial and federal authorities as required by law.

Section 7. Handling and storage

Precautions for safe handling

Protective measures :

Put on appropriate personal protective equipment (see Section 8).

Advice on general hygiene at work :

Refer to Section 8 for information on hygiene measures.

Conditions for safe storage (including incompatible materials) :

Keep out of the reach of children. Store in a cool and well-ventilated area. Keep the container tightly closed. Keep away from heat, sparks, flames and oxidizing agents.

Section 8. Exposure controls/Personal protection

Control parameters

Occupational exposure limits :

Name of product or ingredient	Exposure limits - ACGIH	Exposure limits - OSHA	Immediately dangerous to life or health - IDLH
Isopropyl alcohol	200 ppm - TWA 400 ppm - STEL	200 ppm - TWA	2000 ppm
Ethyl alcohol	1000 ppm - TWA	1000 ppm - VTWA	3300 ppm
Methyl alcohol	200 ppm - TWA 250 ppm - STEL	200 ppm - TWA 250 ppm - STEL	6000 ppm
Alcohol ethoxylate C9-11	Not available	Not available	Not available

Appropriate engineering controls :

Not required under normal use conditions.

Individual protection measures

Hygiene measures :

Observe good personal hygiene measure.

Eye / face protection :

Wear eye protection such as protective glasses.

Skin protection :

Hand protection :

Wear chemical resistant gloves.

Body protection :

None required in normal use.

Other skin protection :

None required in normal use.

Respiratory protection :

None required in normal use.

Section 9. Physical and chemical properties

Appearance :	Slightly amber liquid
Odour :	Pleasant
Odour threshold :	Not available
pH :	Not applicable
Melting point/Freezing point :	Not available
Initial boiling point :	Not available
Flash point :	Closed cup : 24°C (75°F)
Evaporation rate :	Not available
Flammability (solids and gases) :	Not applicable
Lower and upper flammability/explosive limit :	Not available
Vapour pressure :	Not available
Vapour density :	Not available
Relative density :	0,93 ± 0,01g/ml
Solubility :	Easily soluble in the following materials : cold water
Partition coefficient n-octanol/water :	Not available
Auto-ignition temperature :	Not available
Decomposition temperature :	Not available
Viscosity :	Not available

Section 10. Stability and reactivity

Reactivity :	No specific test data to the reactivity available for this product or its ingredients.
Chemical stability :	The product is stable.
Possibility of hazardous reactions :	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid :	No specific data.
Incompatible materials :	Reactive or incompatible with the following materials: oxidants materials.
Hazardous decomposition products :	If heated to decomposition, releases carbon oxides.

Section 11. Toxicological information

Information on toxicological effects

Route of exposure : Skin contact, eye contact, inhalation, ingestion.

Toxicological data :

Name of product or ingredient	Result	Species	Dosage	Exposure	Observation
Isopropyl alcohol	LD50 Oral	Rat	1870 mg/kg	-	-
	LD50 Dermal	Rabbit	4059 mg/kg	-	-
	LC50 Inhalation	Rat	66,1 ppm	4 hours	-
Ethyl alcohol	LD50 Oral	Rat	7060 mg/kg	-	-
	LD50 Dermal	Rabbit	20000 mg/kg	-	-
	LC50 Inhalation	Rat	31623 ppm	4 hours	-
Methyl alcohol	LD50 Oral	Rat	5628 mg/kg	-	-
	LD50 Dermal	Rabbit	20000 mg/kg	-	-
	LC50 Inhalation	Rat	64000 ppm	4 hours	-
Alcohol ethoxylate C9-11	LD50 Oral	Rat	>2000 mg/kg	-	-
	LD50 Dermal	Rabbit	>2000 mg/kg	-	-

Safety Data Sheet

Z-AIR

Eye contact :	Causes serious eye irritation. Adverse symptoms may include pain, tearing, conjunctivitis, corneal injury.
Inhalation :	May cause drowsiness or dizziness. Adverse symptoms may include respiratory tract irritation, dizziness, choking and coma.
Skin contact :	Causes skin irritation. Adverse symptoms may include: pain or irritation, dermatitis.
Ingestion :	May cause intestinal disturbances, drowsiness or dizziness. Causes of serious damage to the optic nerve and central nervous system. Adverse symptoms may include gastrointestinal irritation, nausea, vomiting, diarrhea, coma, blindness, and death.
Sensitization :	Some isolated cases of skin sensitization caused by methyl alcohol have been reported.
Mutagenicity :	Methyl alcohol has produced mutagenic effects (somatic cells) in experimental animals.
Carcinogenicity :	To date, the RSST, IARC, ACGIH and NTP have not published any evaluation of the carcinogenicity of methyl alcohol.
Toxicity to reproduction :	Ethyl alcohol crosses the placenta in humans and can cause birth defects and other adverse effects on pregnancy. The risk of effects occurring depends on the duration and level of exposure. Methyl alcohol has an embryonic and / or foetotoxic effect in animals. Methyl alcohol crosses the placenta in animals.
Teratogenicity :	Methyl alcohol has demonstrated a teratogenic effect in animals.
Systemic toxicity for some target organs – single exposure :	Category 1 (methanol: optic nerve and central nervous system) Category 3 (methanol: narcotic effects, drowsiness or dizziness)
Target organ toxicity – repeated exposure :	Long-term exposure to methanol has been associated with headaches, dizziness, conjunctivitis, insomnia and blurred vision. Chronic oral exposure to ethanol can lead to the development of progressive liver injury with fibrosis.

Numerical value of toxicity

Acute toxicity estimates

Route of exposure	ATE value
Oral	>5000 mg/kg (rat)
Dermal	>5000 mg/kg (rabbit)
Inhalation	220 ppm (rat)

Section 12. Ecological information

Ecotoxicity :	Not available
Persistence and degradability :	Not available
Bioaccumulative potential :	Not available
Mobility in soil :	Not available
Other adverse effects :	Not available

Section 13. Disposal considerations

Disposal considerations :	It is important to minimize or avoid generation of waste wherever possible. Dispose of contents and container in accordance with all applicable local, state, and national regulations.
----------------------------------	---

14. Transport information

UN number : UN1993

UN proper shipping name : FLAMMABLE LIQUID N.O.S. (Isopropanol)

Environmental hazards : 3

Packing group : III

Special precautions : Transport with local users: Always transport in containers that are correct and secure. Ensure that persons transporting the product know what to do in case of accident or spillage.

Section 15. Regulatory information

The product classification and SDS were developed in accordance with the HPR.

Section 16. Other information

Procedure used to prepare the classification

Classification	Justification
FLAMMABLE LIQUIDS – Category 3	Test result
SKIN IRRITATION – Category 2	Calculation method
EYE DAMAGE – Category 1	Calculation method
SENSITIZATION – SKIN – Category 1	Calculation method
REPRODUCTIVE TOXICITY – Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) – Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) – Category 3	Calculation method

Prepared on : 2019-02-07

Edition : 02

Prepared by : The research and development department of Produits Sanitaires Lépine inc.

Legend of abbreviations :

ATE = Acute toxicity estimate
 SDS = Safety Data Sheet
 UN = United Nations
 HPR = Hazardous Products Regulations
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 TDG : Transportation of Dangerous Goods
 CAS : Chemical Abstract Service
 LC : Lethal Concentration
 LD : Lethal Dose
 EC : Effective Concentration

Notice to reader:

To the best of our knowledge, the information contained in this document is accurate. However, neither the above supplier nor any of its branches can assume any responsibility whatsoever with regard to the accuracy or completeness of the information contained in this document. It is the exclusive responsibility of the user to determine the approval of the materials. All materials may present unknown hazards and should be used with caution. Although certain hazards are described in this document, we cannot guarantee that there are no other hazards.