# **Material Safety Data Sheet**



JoiMist Firm Finishing Spray (HIGH VOC - JLE) EU

# 1. Identification of the material and supplier

**Names** 

Product name : JoiMist Firm Finishing Spray (HIGH VOC - JLE) EU

**Distributor** : SABRE CORPORATION

75 South Creek Road Dee Why, NSW 2099

Australia

Phone: 02-9982-0100

Manufacturer : Zotos International, INC.

100 Tokeneke Road, Darien, CT 06820 www.zotos.com

**Emergency telephone** 

number

: 131126

#### 2. Hazards identification

Classification : F; R11

Risk phrases : R11- Highly flammable.

Safety phrases : S2- Keep out of the reach of children.

S46- If swallowed, seek medical advice immediately and show this container or label.

Statement of hazardous/dangerous

nature

: NON-HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED. Additional information on toxicological endpoints is available from the supplier upon request

# 3. Composition/information on ingredients

Mixture : Yes.

Ingredient name	CAS number	Concentration
ethanol	64-17-5	53.973
2-amino-2-methylpropanol	124-68-5	1.1262
(R)-p-mentha-1,8-diene	5989-27-5	0.00009936

Other ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

#### 4. First aid measures

First aid measures

**Inhalation** : Move affected person to fresh air.

Ingestion : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS

WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED. Treat symptomatically. Never give anything by mouth to an unconscious person.

Call a physician.

**Skin contact**: Remove contaminated clothing and shoes. Wash with plenty of soap and water.

**Eye contact**: In case of contact, immediately flush eyes with plenty of water for at least 15

minutes. Seek medical attention if irritation persists.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It

may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Advice to doctor : None.

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#### 5. Fire-fighting measures

**Extinguishing media** 

: Use dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray (fog).

Special exposure hazards

: Flammable liquid. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits.

Hazardous thermal decomposition products

: may be released including hydrofluoric and/or carbonyl halides

Special protective equipment for fire-fighters

: Immediately contact emergency personnel. Flammable material In case of insufficient ventilation, wear suitable respiratory equipment.

Hazchem code

: 2YE

#### 6. Accidental release measures

**Personal precautions** 

: Flammable. Keep away from ignition sources such as heat/sparks/open flame. - No smoking. Do not get in eyes. Keep out of reach of children.

**Environmental precautions** 

: Leaking packages should be placed in open containers outdoors away from any source of ignition

Methods for cleaning up

: Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Place spilled material in an appropriate container for disposal. After contact with skin, wash immediately with plenty of water.

## 7. Handling and storage

Handling

Keep away from ignition sources such as heat/sparks/open flame. - No smoking. Use only in well-ventilated areas. Avoid contact with ignition and heat sources and oxidizers. Do not spray on an open flame or other ignition source. Keep out of reach of children.

**Storage** 

Avoid increased storage temperature. Keep away from ignition sources such as heat/sparks/open flame. - No smoking. Avoid contact with ignition and heat sources and oxidizers. Store away from oxidizing agents. Store in cool/well-ventilated place.

## 8. Exposure controls/personal protection

#### Occupational exposure limits

Ingredient name	Exposure limits
ethanol	Safe Work Australia (Australia, 8/2005). TWA: 1880 mg/m³ 8 hour(s).
2-amino-2-methylpropanol	TWA: 1000 ppm 8 hour(s). <b>TRGS900 AGW (Germany, 8/2010).</b> TWA: 4.6 mg/m³ 8 hour(s).
	PEAK: 9.2 mg/m³ 15 minute(s). TWA: 1 ppm 8 hour(s). PEAK: 2 ppm 15 minute(s).
(R)-p-mentha-1,8-diene	TRGS900 AGW (Germany, 8/2010). Skin sensitizer. PEAK: 40 ppm 15 minute(s). PEAK: 220 mg/m³ 15 minute(s).
ethanol	TWA: 20 ppm 8 hour(s).  TWA: 110 mg/m³ 8 hour(s).  Safe Work Australia (Australia, 8/2005).  TWA: 1880 mg/m³ 8 hour(s).  TWA: 1000 ppm 8 hour(s).

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

#### **Exposure controls**

Engineering measures

: In case of insufficient ventilation, wear suitable respiratory equipment.

**Hygiene measures** 

: When using do not eat, drink or smoke.

Eyes

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Hands

 Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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### 8. Exposure controls/personal protection

Respiratory

: Chemical splash goggles. Protective clothing must be worn.

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist

before handling this product.

Environmental exposure

controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# 9. Physical and chemical properties

Physical state : Liquid. [Viscous liquid.]

Color : Colorless to light yellow.

Odor : Characteristic. Fragrance-like.

**Boiling point** : 78.333°C (173°F) **Relative density** : 0.81 to 0.85

Flash point : Closed cup: 13°C (55.4°F)

**pH** : 6 to 9

**Aerosol product** 

Type of aerosol : Spray

Flame duration : Not available.

## 10. Stability and reactivity

**Chemical stability** : Stable under recommended storage and handling conditions (see section 7).

Possibility of hazardous

reactions

Not available.

Conditions to avoid : Store away from direct sunlight. Avoid contact with ignition and heat sources and

oxidizers. Store away from oxidizing agents.

**Materials to avoid** : Separate from oxidizing materials.

Hazardous decomposition

products

Products of combustion

## 11. Toxicological information

Potential acute health effects

Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects

may be delayed following exposure.

Ingestion : No known significant effects or critical hazards.
 Skin contact : No known significant effects or critical hazards.
 Eye contact : No known significant effects or critical hazards.

**Acute toxicity** 

Product/ingredient name	Result	Dose	Exposure
ethanol	LC50 Inhalation Vapor	124700 mg/m3	4 hours
	LD50 Oral	7 g/kg	-
2-amino-2-methylpropanol	LD50 Oral	2900 mg/kg	-
(R)-p-mentha-1,8-diene	LD50 Dermal	>5000 mg/kg	-
	LD50 Oral	4400 mg/kg	-
ethanol	LC50 Inhalation Vapor	124700 mg/m3	4 hours
	LD50 Oral	7 g/kg	-

**Conclusion/Summary**: Not available.

Potential chronic health effects

**Chronic toxicity** 

**Conclusion/Summary**: Not available.

**Irritation/Corrosion** 

Product/ingredient name	Result	Score	Exposure	Observation

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# 11. Toxicological information

ethanol	Eyes - Mild irritant	-	24 hours 500  -
			milligrams
	Eyes - Moderate irritant	-	0.066666667  -
			minutes 100
			milligrams
	Eyes - Moderate irritant	-	100 -
			microliters
	Eyes - Severe irritant	-	500 -
			milligrams
	Skin - Mild irritant	-	400 -
			milligrams
	Skin - Moderate irritant	-	24 hours 20 -
(D) a secondly a 4 0 diams	Oldin Milal indiana		milligrams
(R)-p-mentha-1,8-diene	Skin - Mild irritant	-	24 hours 10 -
ath and	Fues Mild imitent		Percent
ethanol	Eyes - Mild irritant	-	24 hours 500 - milligrams
	Eyes - Moderate irritant		0.066666667  -
	Lyes - Moderate irritant	_	minutes 100
			milligrams
	Eyes - Moderate irritant	_	100 -
	Lyos Moderate initiant		microliters
	Eyes - Severe irritant	_	500 -
			milligrams
	Skin - Mild irritant	_	400 -
			milligrams
	Skin - Moderate irritant	_	24 hours 20  -
			milligrams
			-

**Conclusion/Summary** 

: Not available.

**Sensitizer** 

**Conclusion/Summary**: Not available.

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

**Mutagenicity** 

**Conclusion/Summary**: Not available.

**Teratogenicity** 

**Conclusion/Summary**: Not available.

Reproductive toxicity

**Conclusion/Summary**: Not available.

Chronic effects
 : No known significant effects or critical hazards.
 Carcinogenicity
 : No known significant effects or critical hazards.
 Mutagenicity
 : No known significant effects or critical hazards.
 Teratogenicity
 : No known significant effects or critical hazards.
 Developmental effects
 : No known significant effects or critical hazards.
 Fertility effects
 : No known significant effects or critical hazards.

Over-exposure signs/symptoms

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Ingestion: No specific data.Skin: No specific data.

**Eyes** : Adverse symptoms may include the following:

irritation redness

Target organs : Contains material which may cause damage to the following organs: the nervous

system, liver, upper respiratory tract.

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# 12. Ecological information

**Ecotoxicity** 

: No known significant effects or critical hazards.

#### **Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
ethanol	Acute EC50 17.921 mg/L Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 ug/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 ug/L Marine water	Crustaceans - Artemia franchiscana - Larvae	48 hours
	Acute LC50 42000 ug/L Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Gambusia holbrooki -	12 weeks
		Larvae - 3 days	
(R)-p-mentha-1,8-diene	Acute EC50 421 ug/L Fresh water	Daphnia - Daphnia magna - <24 hours	48 hours
	Acute EC50 688 ug/L Fresh water	Fish - Pimephales promelas - 34 days - 19.1 mm - 0.085 g	96 hours
ethanol	Acute EC50 17.921 mg/L Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 ug/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 ug/L Marine water	Crustaceans - Artemia franchiscana - Larvae	48 hours
	Acute LC50 42000 ug/L Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Gambusia holbrooki - Larvae - 3 days	12 weeks

**Conclusion/Summary** 

: Not available.

Other ecological information

Persistence/degradability Conclusion/Summary

: Not available.

**Bioaccumulative potential** 

Product/ingredient name	LogPow	BCF	Potential
ethanol	-0.32	-	low
(R)-p-mentha-1,8-diene	4.2		high
ethanol	-0.32		low

Other adverse effects

: No known significant effects or critical hazards.

# 13. Disposal considerations

**Methods of disposal** 

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

# 14. Transport information

AEROSOLS	2.1	-	FLAMMBLE OAS 2	Hazchem code 2YE  Limited quantity LQ2
AEROSOLS	2	-	<u>*</u>	
				Special provisions 190 327 625  Tunnel code (D)
AEROSOLS	2.1	-		Emergency schedules (EmS) F-D, S-U

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#### 14. Transport information IATA UN1950 Aerosols, flammable 2.1 Passenger and Cargo **<u>Aircraft</u>**Quantity limitation: 75 kg Packaging instructions: 203 **Cargo Aircraft Only** Quantity limitation: 150 kg Packaging instructions: 203 **Limited Quantities -**Passenger Aircraft Quantity limitation: 30 kg Packaging instructions: Y203

PG\*: Packing group

# 15. Regulatory information

Standard for the Uniform Scheduling of Drugs and Poisons

JoiMist Firm Finishing Spray (HIGH VOC - JLE) EU

Not regulated.

**Control of Scheduled Carcinogenic Substances** 

Not available.

No listed substance

**Australia inventory (AICS)** 

: All ingredients that are not contained in the AICS database are below registration thresholds.

#### 16. Other information

**Date of issue** : 9/12/2012.

**Disclaimer** 

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

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.

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