JoiShape Shaping & Finishing Spray, (HIGH VOC - JLE) EU

1. Identification of the material and supplier

<u>Names</u>	
Product name	IoiShape Shaping & 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	54.076
2-amino-2-methylpropanol	124-68-5	1.1118
(R)-p-mentha-1,8-diene	5989-27-5	0.0000756

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

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Extinguishing media	: Use dry chemical, CO ₂ , 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/m ³ 8 hour(s). TWA: 1000 ppm 8 hour(s).		
2-amino-2-methylpropanol	TRGS900 AGW (Germany, 8/2010). TWA: 4.6 mg/m ³ 8 hour(s). PEAK: 9.2 mg/m ³ 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/m ³ 15 minute(s). TWA: 20 ppm 8 hour(s). TWA: 110 mg/m ³ 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.		
Respiratory	: Chemical splash goggles. Protective clothing must be worn.		

JoiShape Shaping & Finishing Spray, (HIGH VOC - JLE) EU 8. Exposure controls/personal protection 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)
рН	:	6 to 9
Aerosol product		
Type of aerosol	:	Spray
Flame duration	:	Not available.

10. Stability and reactivity

Chemical stability	1	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	1	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. No known significant effects or critical hazards. Ingestion **Skin contact** : No known significant effects or critical hazards. Eye contact : No known significant effects or critical hazards. Acute toxicity **Exposure Product/ingredient name** Result Dose ethanol LC50 Inhalation Vapor 124700 mg/m3 4 hours LD50 Oral 7 g/kg LD50 Oral 2900 mg/kg 2-amino-2-methylpropanol

>5000 mg/kg

4400 mg/kg

LD50 Dermal

LD50 Oral

Conclusion/Summary : Not available.

Potential chronic health effects

(R)-p-mentha-1,8-diene

Chronic toxicity

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Score	Exposure	Observation

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11. Toxicological in	nformatic	on				
ethanol		Eyes - Mild irritant Eyes - Moderate irritant	-	24 hours 500 - milligrams 0.066666667 - minutes 100		
		Eyes - Moderate irritant	-	milligrams 100 - microliters		
		Eyes - Severe irritant Skin - Mild irritant	-	500 - milligrams 400 -		
		Skin - Moderate irritant	-	milligrams 24 hours 20 -		
(R)-p-mentha-1,8-diene		Skin - Mild irritant	-	milligrams 24 hours 10 - Percent		
Conclusion/Summary Sensitizer	: Not available			·		
Conclusion/Summary <u>Carcinogenicity</u> Conclusion/Summary	Not availableNot available					
Mutagenicity Conclusion/Summary	: Not available					
<u>Teratogenicity</u> Conclusion/Summary	: Not available					
Reproductive toxicity Conclusion/Summary	: Not available.					
Chronic effects Carcinogenicity	 No known significant effects or critical hazards. No known significant effects or critical hazards. 					
Mutagenicity Teratogenicity		No known significant effects or critical hazards. No known significant effects or critical hazards.				
Developmental effects Fertility effects	 No known significant effects or critical hazards. No known significant effects or critical hazards. 					
Over-exposure signs/sympton		•				
Inhalation	: Adverse syn respiratory ti coughing	nptoms may include the followin ract irritation	ıg:			
Ingestion	: No specific data.					
Skin	: No specific of	data.				
Eyes	: Adverse syn irritation redness	nptoms may include the followin	ıg:			
Target organs		aterial which may cause damage r, upper respiratory tract.	e to the f	ollowing organs: the nervous		

12. Ecological information

: No known significant effects or critical hazards.

Aquatic ecotoxicity

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 - Larvae - 3 days	12 weeks	
(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	96 hours	

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12. Ecolo	ogical info	ormation						
Conclusion/	Summony	: Not available.						
Conclusion/Summary Other ecological information		: Not avallable.						
	degradability							
Conclusion/Summary		: Not available.						
Bioaccumula	ative potential							
_	redient name	LogPow BCF			Potential			
ethanol (R)-p-mentha	a-1,8-diene	-0.32 4.2				low high		
Other adverse effects		: No known significant effect	0					
13. Disp	osal consi	-						
Methods of di		: Dispose of according to a	ll federal, state	e and l	ocal applic	able regulations.		
14. Trans	sport info	rmation						
Regulation	UN number	Proper shipping name	Classes	PG*	Label	Additional information		
ADG	UN1950	AEROSOLS	2.1	-	FLAMMABLE GAS 2	Hazchem code 2YE		
ADR	UN1950	AEROSOLS	2	-		Limited quantity LQ2 Special provisions 190 327 625 Tunnel code (D)		
IMDG	UN1950	AEROSOLS	2.1	-		Emergency schedules (EmS) F-D, S-U		
ΙΑΤΑ	UN1950	Aerosols, flammable	2.1	-	Ý Ý	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

Not regulated.

Control of Scheduled Carcinogenic Substances

Not available.

No listed substance

15. Regulatory information

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.