JoiMist Medium Styling & Finishing Spray (55% VOC)

1. Identification of the material and supplier

<u>Names</u>	
Product name	IoiMist Medium Styling & Finishing Spray (55% VOC)
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 (R)-p-mentha-1,8-diene		64-17-5 5989-27-5	52.687 0.0075476

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 (R)-p-mentha-1,8-diene			Safe Work Australia (Australia, 8/2005). TWA: 1880 mg/m ³ 8 hour(s). TWA: 1000 ppm 8 hour(s). 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	1	In case of insufficient v	entilation, wear suitable respiratory equipment.	
Hygiene measures	1	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.		
Skin	:		uipment for the body should be selected based on the task ne risks involved and should be approved by a specialist oduct.	

8. Exposure controls/personal protection

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

9. Physical and chemical properties

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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.

will be necessary to reduce emissions to acceptable levels.

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 ar oxidizers. Store away from oxidizing agents.	ld
Materials to avoid	: Separate from oxidizing materials.	
Hazardous decomposition products	: Products of combustion	

11. Toxicological information

Potential acute health effects

Inhalation Ingestion Skin contact Eye contact	 No known significant effects or critical hazards. 			
Acute toxicity Product/ingredient name		Result	Dose	Exposure
ethanol		LC50 Inhalation Vapor LD50 Oral	124700 mg/m3 7 g/kg	4 hours -
(R)-p-mentha-1,8-diene		LD50 Dermal	>5000 mg/kg	-

4400 mg/kg

LD50 Oral

Conclusion/Summary : Not available.

Potential chronic health effects

Chronic toxicity

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Score	Exposure	Observation
ethanol	Eyes - Mild irritant	-	24 hours 500 milligrams	-
	Eyes - Moderate irritant	-	0.0666666667 minutes 100 milligrams	-
	Eyes - Moderate irritant	-	100 microliters	-
	Eyes - Severe irritant	-	500 milligrams	-
	Skin - Mild irritant	-	400 milligrams	-

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	SI	kin - Moderate irritant	-	24 hours 20 -	
(R)-p-mentha-1,8-diene	SI	kin - Mild irritant	-	milligrams 24 hours 10 Percent	
Conclusion/Summary	: Not available.		•		
<u>Sensitizer</u>					
Conclusion/Summary <u>Carcinogenicity</u>	: Not available.				
Conclusion/Summary <u>Mutagenicity</u>	: Not available.				
Conclusion/Summary <u>Teratogenicity</u>	: Not available.				
Conclusion/Summary <u>Reproductive toxicity</u>	: Not available.	Not available.			
Conclusion/Summary	: Not available.	Not available.			
Chronic effects	: No known signi	No known significant effects or critical hazards.			
Carcinogenicity	: No known signi	No known significant effects or critical hazards.			
Mutagenicity	: No known signi	No known significant effects or critical hazards.			
Teratogenicity	: No known signi	No known significant effects or critical hazards.			
Developmental effects	: No known signi	No known significant effects or critical hazards.			
Fertility effects	: No known signi	No known significant effects or critical hazards.			
Over-exposure signs/symp	<u>oms</u>				
Inhalation		Adverse symptoms may include the following: respiratory tract irritation coughing			
Ingestion	: No specific data	а.			
Skin	: No specific data	а.			
Eyes	: Adverse sympto irritation redness				
Target organs		ial which may cause damage pper respiratory tract.	to the f	ollowing organs: the nervous	

12. Ecological information

Ecotoxicity

: No known significant effects or critical hazards.

Product/ingredient name	Result	Species		Exposure		
thanol	Acute EC50 17.921 mg/L Marin	e water Algae - Ulva pe	Algae - Ulva pertusa			
	Acute EC50 2000 ug/L Fresh w	ater Daphnia - Dapl	Daphnia - Daphnia magna			
	Acute LC50 25500 ug/L Marine		Crustaceans - Artemia franchiscana - Larvae			
	Acute LC50 42000 ug/L Fresh v	vater Fish - Oncorhy	Fish - Oncorhynchus mykiss			
	Chronic NOEC 0.375 ul/L Fresh	water Fish - Gambus	Fish - Gambusia holbrooki -			
		Larvae - 3 days	Larvae - 3 days			
R)-p-mentha-1,8-diene	Acute EC50 421 ug/L Fresh wa	ter Daphnia - Dapl hours	Daphnia - Daphnia magna - <24 hours			
	Acute EC50 688 ug/L Fresh wa	ter Fish - Pimepha	Fish - Pimephales promelas - 34			
		days - 19.1 mm	days - 19.1 mm - 0.085 g			
Conclusion/Summary	: Not available.	·				
ther ecological information	<u>on</u>					
Persistence/degradability						
Conclusion/Summary	: Not available.					
Bioaccumulative potentia	<u>l</u>					
Product/ingredient name	LogPow	BCF	Potential			
ethanol	-0.32	-	low			
(R)-p-mentha-1,8-diene	4.2	-	high	high		

12. Ecological information

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

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	-		Passenger and Cargo Aircraft 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

Australia inventory (AICS)

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

16. Other information

Date of issue Disclaimer

: 9/12/2012.

16. Other information

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.