SAFETY DATA SHEET



Joico Flip Turn Volumizing Finishing Spray, 55% VOC

1. Identification of the material and supplier

Names

Product name : Joico Flip Turn Volumizing Finishing Spray, 55% VOC

Distributor : Sabre Corporation PTY LTD

Building 8, Suite 6, level 2 / 49 Frenchs Forest Road

Forest Central Business Park Frenchs Forest, NSW, 2086

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.

Hazard statements : FLAMMABLE AEROSOL. CAUSES EYE IRRITATION.

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
Ethyl alcohol	64-17-5	44.42
1,1-difluoroethane	75-37-6	27.00
Butane	106-97-8	9.00
(R)-p-Mentha-1,8-diene	5989-27-5	0.00

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.

Call a physicial

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

Special exposure hazards

- : Use dry chemical, CO₂, alcohol-resistant foam or water spray (fog).
- : 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

Special protective equipment for fire-fighters

Hazchem code

: may be released including hydrofluoric and/or carbonyl halides

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

: 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 av ay from oxidizing agents. Store in cool/well-ventilated place.

8. Exposure controls/pelsonal protection

Occupational exposure limits

Ingredient name	Exposure limits
Ethyl alcohol	Safe Work Australia (Australia, 1/2014).
	TWA: 1880 mg/m³ 8 hours.
	TWA: 1000 ppm 8 hours.
Butane	Safe Work Australia (Australia, 1/2014).
	TWA: 1900 mg/m³ 8 hours.
	TWA: 800 ppm 8 hours.
(R)-p-Mentha-1,8-diene	TRGS900 AGW (Germany, 3/2015). Absorbed through
	skin. Skin sensitizer.
	PEAK: 20 ppm 15 minutes.
	PEAK: 112 mg/m³ 15 minutes.
	TWA: 5 ppm 8 hours.
	TWA: 28 mg/m³ 8 hours.

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. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Exposure controls

Engineering measures Hygiene measures Eyes

- : In case of insufficient ventilation, wear suitable respiratory equipment.
- : When using do not eat, drink or smoke.
- : 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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

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8. Exposure controls/personal protection

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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Respiratory

Skin

: Chemical splash goggles. Protective clothing must be worn.

: 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

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)

pН : 6 to 9

Aerosol product

Type of aerosol

*** Spray draft only *** **Heat of combustion**

Flame duration : Not available.

10. Stability and reactivity

Chemical stability

Possibility of hazardous

reactions

: Stable under recommended storage and handling conditions (see Section 7).

: 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 Skin contact **Eye contact**

No known significant effects or critical hazards. : No known significant effects or critical hazards.

: No known significant effects or critical hazards.

Acute toxicity

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11. Toxicological information

Product/ingredient name	Result	Dose	Exposure
Ethyl alcohol	LC50 Inhalation Vapor LD50 Oral	124700 mg/m³ 7 g/kg	4 hours
Butane (R)-p-Mentha-1,8-diene	LC50 Inhalation Vapor LD50 Dermal		4 hours - -

Conclusion/Summary : Not available.

Potential chronic health effects

Chronic toxicity

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Score	Exposure	Observation
Ethyl alcohol	Eyes - Mild irritant	-	24 hours 500 milligrams	-
	Eyes - Moderate irritant	-	0.06666667 minutes 100 milligrams	-
	Eyes - Moderate irritant	-	100 microliters	-
	Eyes - Severe irritant	-	500 milligrams	-
(R)-p-Mentha-1,8-diene	Skin - Mild irritant	-	24 hours 10 Percent	-

Conclusion/Summary : Not available.

Sensitizer

Conclusion/Summary : Not available.

Carcinogenicity

raft only *** **Conclusion/Summary**

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: blood, the

reproductive system, liver, heart, upper respiratory tract, skin, eyes, central nervous

system (CNS).

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12. Ecological information

THE FOLLOWING DATA IN THIS SECTION IS SOURCED FROM PUBLICLY AVAILABLE DATABASES AND NOT THE REPRESENTATION OF ANY DATA COLLECTED BY ZOTOS INTERNATIONAL OR ITS AFFILIATES.

Ecotoxicity : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Ethyl alcohol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
,	Acute EC50 2000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia	48 hours
		franciscana - Larvae	
	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Gambusia holbrooki -	12 weeks
		Larvae	
(R)-p-Mentha-1,8-diene	Acute EC50 421 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 688 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling,	96 hours
		Weanling)	

Conclusion/Summary

: Not available.

Other ecological information

Persistence/degradability

Conclusion/Summary

: Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Ethyl alcohol	-0.35	-	low
1,1-difluoroethane	1.13	-	low
Butane	1 89	- 1 44	kw
(R)-p-Mentha-1,8-diene	4:38 Craft	02?	high

Other adverse effects

: No known significant effects of 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 OF STATE OF	Hazchem code 2YE Special provisions 63, 190, 277, 327
ADR	UN1950	AEROSOLS	2	-	***************************************	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Limited quantity LQ2 Special provisions 190 327 625 Tunnel code (D)

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14. Transport information UN1950 **IMDG** AEROSOLS. Marine 2.1 The marine pollutant mark pollutant (ethanol) is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules (EmS) F-D, S-U Special provisions 63, 190, 277, 327, 959 **IATA** UN1950 Aerosols, flammable 2.1 The environmentally hazardous substance mark may appear if required by other transportation regulations. Passenger and Cargo **<u>Aircraft</u>**Quantity limitation: 75 kg Packaging instructions: 203 **Cargo Aircraft Only** Quantity limitation: 150 kg Packaging instructions: **Limited Quantities -**Passenger Aircraft Quantity limitation: 30 kg Packaging instructions: Y203 draft only Special provisions A145

PG*: Packing group

15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Joico Flip Turn Volumizing Finishing Spray, 55% VOC

Not regulated.

Control of Scheduled Carcinogenic Substances

Australia inventory (AICS) : All ingredients that are not contained in the AICS database are below registration thresholds.

16. Other information

Date of issue : ***

Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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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