Material Safety Data Sheet



Joico Power Spray Fast-Dry Finishing Spray 55% VOC (Joico Ultra Dry Firm Hair Spray)

1. Product and company identification

Product name : Joico Power Spray Fast-Dry Finishing Spray 55% VOC (Joico Ultra Dry Firm Hair Spray)

Manufacturer : Zotos International, INC.

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

Validation date : 9/12/2012.

<u>In case of emergency</u> (800) 584-8038 [24 Hours]

Telephone number (203) 656-7859 [8:30 a.m. - 5:00 p.m.]

Transportation Emergency Contact: CHEMTREC 1-800-424-9300 [US/Canada 24 Hours]

Product type : Aerosol.

2. Hazards identification

Emergency overview

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

Color : Colorless to light yellow.

Odor : Characteristic. Fragrance-like.

Hazard statements : FLAMMABLE AEROSOL. CAUSES EYE IRFITATION. MAY CAUSE SKIN

IRRITATION.

Precautionary measures : Avoid contact with eyes, skin and clothing. Keep away from heat, sparks, open flames

and hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Wash thoroughly after handling.

OSHA/HCS status : None.

Potential acute health effects

Inhalation : May cause respiratory irritation. Avoid breathing vapor.

Ingestion : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN

THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Skin : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN

THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED. Mild irritant

Eyes : May cause slight transient irritation.

Potential chronic health effects

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 : None identified.

signs/symptoms

Medical conditions aggravated by over-

conditions : None.

exposure

See toxicological information (Section 11)

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3. Composition/information on ingredients

		-		

Name	CAS number	%
ethanol	64-17-5	49.652

Canada

Name	CAS number	%
ethanol	64-17-5	49.652

Mexico

						CI	assific	cation
Name	CAS number	UN number	%	IDLH	Н	F	R	Special
ethanol	64-17-5	UN1993	49.652	3300 ppm	2	3	0	-

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

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

Seek medical attention if irritation persists.

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

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.

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.

Notes to physician : None

5. Fire-fighting measures

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

limits.

Extinguishing media
Special exposure hazards

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

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water

spray to keep fire-exposed containers cool.

Unusual fire/explosion hazards

None known.

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.

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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 head/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 a way 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.

Recommendations

PRESSURIZED CONTAINER Keep cool and protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

8. Exposure controls/personal protection

United States

Ingredient	Exposure limits	
ethanol	ACGIH TLV (United States, 2/2010).	
	STEL: 1000 ppm 15 minute(s).	
	OSHA PEL 1989 (United States, 3/1989).	
	TWA: 1000 ppm 8 hour(s).	
	TWA: 1900 mg/m ³ 8 hour(s).	
	NIOSH REL (United States, 6/2009).	
	TWA: 1000 ppm 10 hour(s).	
	TWA: 1900 mg/m³ 10 hour(s).	
	OSHA PEL (United States, €/2010).	
	TWA: 1000 ppm 8 hour(s).	
	TWA: 1900 mg/m ³ 8 hour(s).	

Canada

Occupational exposure limit	<u>ts</u>	TWA (8 hours		STEL (15 mins		Ceilin	g		
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
ethanol	US ACGIH 2/2010 AB 4/2009 BC 9/2010 ON 7/2010 QC 6/2008	- 1000 - - 1000	- 1880 - - 1880	-	1000 - 1000 1000	-	-	-	-	-	

Mexico

Occupational exposure limits

Ingredient	Exposure limits
ethanol	NOM-010-STPS (Mexico, 9/2000). LMPE-PPT: 1000 ppm 8 hour(s). LMPE-PPT: 1900 mg/m ³ 8 hour(s).

Consult local authorities for acceptable exposure limits.

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.

Engineering measures

Hygiene measures

In case of insufficient ventilation, wear suitable respiratory equipment.

: When using do not eat, drink or smoke.

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8. Exposure controls/personal protection

Personal protection

Chemical splash goggles. Protective clothing must be worn. Respiratory

Chemical-resistant, impervious gloves complying with an approved standard should be Hands

worn at all times when handling chemical products if a risk assessment indicates this is

necessary.

Safety eyewear complying with an approved s andard should be used when a risk Eyes

assessment indicates this is necessary to avoid exposure to liquid splashes, mists or

Personal protective equipment for the body should be selected based on the task being Skin

performed and the risks involved and should the 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.

Not available. Other protection

9. Physical and chemical properties

Liquid. [Viscous liquid.] Physical state

Closed cup: 13°C (55.4°F) Flash point Colorless to light yellow. Color

Characteristic. Fragrance-like. Odor

pH

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

Aerosol product

Type of aerosol : Spray

10. Stability and reactivity

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

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

oxidizers. Store away from oxidizing agents.

Incompatible materials

Hazardous decomposition

products

Separate from oxidizing materials.

Products of combustion

Possibility of hazardous

reactions

Not available.

Not available. Hazardous polymerization

11. Toxicological information

United States

Acute toxicity

Product/ingredient name	Result	Dose	Exposure
ethanol	LC50 Inhalation Vapor	124700 mg/m3	4 hours
	LD50 Oral	7 g/kg	-

Conclusion/Summary

: Not available.

Chronic toxicity

Conclusion/Summary

: Not available.

Irritation/Corrosion

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11. Toxicological information

Product/ingredient name	Result	Score	Exposure	Observation
ethanol	Eyes - Mild irritant	-	24 hours 500	-
	Eyes - Moderate irritant	-	milligrams 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 milligrams	-

Conclusion/Summary

: Not available.

Sensitizer

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: No carcinogenic effect.

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
ethanol	A3	1	-	-	-	-

Mutagenicity

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary

: Not available.

Canada

Acute toxicity

Product/ingredient name	Result	Dose	Exposure
ethanol	LC50 Inhalation Vapor LD50 Oral	124700 mg/m3 7 g/kg	4 hours

Conclusion/Summary

: Not available.

Chronic toxicity

Conclusion/Summary

: Not available.

Irritation/Corrosion

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			minutes 100 milligrams	
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	Skin - Mild irritant	-	400 milligrams	-
	Skin - Moderate irritant	-	24 hours 20 milligrams	-

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11. Toxicological information

Conclusion/Summary

Not available.

Sensitizer

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
ethanol	A3	1	-	-	-	-

Mutagenicity

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary

: Not available.

Mexico

Acute toxicity

Product/ingredient name	Result	Dose	Exposure
ethanol	LC50 Inhalation Vapor	124700 mg/m3	4 hours
	LD50 Oral	7 g/kg	-

Conclusion/Summary

: Not available.

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	-	0.066666667 minutes 100 milligrams	-
	Eyes - Moderate irritant	-	100 microliters	-
	Eyes - Severe irritant	-	500 milligrams	-
	Skin - Mild irritant	-	400 milligrams	-
	Skin - Moderate irritant	-	24 hours 20 milligrams	-

Conclusion/Summary

: Not available.

Sensitizer

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
ethanol	A3	1	-	-	-	-

Mutagenicity

Conclusion/Summary

: Not available.

Teratogenicity

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11. Toxicological information

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary

: Not available.

12. Ecological information

Ecotoxicity

: No known significant effects or critical hazard 3.

United States

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
ethanol	Acute EC50 17.921 mg/L Marine water Acute EC50 2000 ug/L Fresh water Acute LC50 25500 ug/L Marine water	Algae - Ulva pertusa Dap nnia - Daphnia magna Crustaceans - Artemia franchiscana - Larvae	96 hours 48 hours 48 hours
	Acute LC50 42000 ug/L Fresh water Chronic NOEC 0.375 ul/L Fresh water	Fish - Oncorhynchus mykiss Fish - Gambusia holbrooki - Larvae - 3 days	4 days 12 weeks

Conclusion/Summary

: Not available.

Persistence/degradability

Conclusion/Summary

: Not available.

Canada

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
ethanol	Acute EC50 17.921 mg/L Marine water Acute EC50 2000 ug/L Fresh water Acute LC50 25500 ug/L Marine water	Alga e - Ulva pertusa Dap nnia - Daphnia magna Crustaceans - Artemia franchiscana - Larvae	96 hours 48 hours 48 hours
	Acute LC50 42000 ug/L Fresh water Chronic NOEC 0.375 ul/L Fresh water	Fish - Oncorhynchus mykiss Fish - Gambusia holbrooki - Larvae - 3 days	4 days 12 weeks

Conclusion/Summary

mmary : Not available.

Persistence/degradability

Conclusion/Summary : Not available.

Mexico

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
ethanol	Acute EC50 17.921 mg/L Marine water Acute EC50 2000 ug/L Fresh water Acute LC50 25500 ug/L Marine water	Alga e - Ulva pertusa Daphnia - Daphnia magna Crustaceans - Artemia franchiscana - Larvae	96 hours 48 hours 48 hours
	Acute LC50 42000 ug/L Fresh water Chronic NOEC 0.375 ul/L Fresh water	Fish - Oncorhynchus mykiss Fish - Gambusia holbrooki - Larvae - 3 days	4 days 12 weeks

Conclusion/Summary

nary : Not available.

Persistence/degradability

: Not available.

Conclusion/Summary
Other adverse effects

: No known significant effects or critical hazards.

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13. Disposal considerations

Waste disposal

- : Dispose of according to all federal, state and local applicable regulations.
- Contaminated packaging
- : Waste must be disposed of according to applicable regulations. This material and its container must be disposed of as hazardous vaste. Recycle, if possible. Dispose of empty containers and waste safely.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

Danulatan	UN number	Proper shipping name	Classes	PG*	Label	Additional
Regulatory information	UN number	Proper snipping name	CidSSES		Lauei	information
DOT Classification	UN1950	Aerosols	2.1			Limited quantity Yes. Packaging instruction Passenger aircraft Quantity limitation: 75 kg Cargo aircraft Quantity limitation: 150 kg Special provisions 153, N82
TDG Classification	UN1950	AEROSOLS	2.1			Explosive Limit and Limited Quantity Index 1 Passenger Carrying Road or Rail Index 75
Mexico Classification	UN1950	AEROSOLES	2.1			Special provisions 63, 190, 277
ADR/RID Class	UN1950	AEROSOLS	2			Limited quantity LQ2 Special provisions 190 327 625 Tunnel code (D)

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14. Transpo	ort inform	ation				
IMDG Class	UN1950	AEROSOLS	2.1	-		Emergency schedules (EmS) F-D, S-U
IATA-DGR Class	UN1950	Aerosols, flammable	2.1		Y	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

United States

: Flammable aerosol **HCS Classification**

Irritating material

U.S. Federal regulations TSCA: Exempt

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: ethanol

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

ethanol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Air Act Section 112(b) Hazardous Air

Pollutants (HAPs)

Clean Air Act Section 602 : Not listed

Class | Substances

Clean Air Act Section 602

Class II Substances

DEA List I Chemicals (Precursor Chemicals) : Not listed

: Not listed

: Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

State regulations

: The following components are listed: ETHYL ALCOHOL Massachusetts

None of the components are listed. **New York**

The following components are listed: ETHYL ALCOHOL; ALCOHOL **New Jersey** : The following components are listed: DENATURED ALCOHOL Pennsylvania

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California Prop. 65

CALIFORNIA PROPOSITION 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. This product is not known to the State of California to cause cancer.

United States inventory

: Not determined.

(TSCA 8b)

Canada

Class B-2: Flammable liquid WHMIS (Canada)

Class B-5: Flammable aerosol.

Class D-2B: Material causing other toxic effects (Toxic).

Canadian lists

The following components are listed: Ethyl alcohol Canadian NPRI

None of the components are listed. **CEPA Toxic substances**

Not determined. Canada inventory

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Classification



International regulations

Chemical Weapons

Convention List Schedule I

Chemicals

Chemical Weapons

Convention List Schedule

II Chemicals

Chemical Weapons

Convention List Schedule

III Chemicals

Not listed

: Not listed

: Not listed

16. Other information

Hazardous Material Information System (U.S.A.)

2 Health 4 Flammability 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not lequired on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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16. Other information

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abla Indicates information that has changed from previously issued version.

Notice to reader

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