

# SAFETY DATA SHEET



## Joico Vero K-PAK Instant Gloss Toner (All Shades)

### 1. Identification of the material and supplier

#### Names

**Product name** : Joico Vero K-PAK Instant Gloss Toner (All Shades)  
**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** : R10  
Xi; R38  
N; R50/53  
**Risk phrases** : R10- Flammable.  
R38- Irritating to skin.  
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
**Safety phrases** : S2- Keep out of the reach of children.  
S29- Do not empty into drains.  
S46- If swallowed, seek medical advice immediately and show this container or label.  
S61- Avoid release to the environment. Refer to special instructions/safety data sheet.  
**Hazard statements** : FLAMMABLE LIQUID AND VAPOR. COMBUSTIBLE. CAUSES EYE IRRITATION. MAY BE HARMFUL IF SWALLOWED. MAY CAUSE SKIN 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
propane-1,2-diol	57-55-6	20.00
propane-1,2-diol	57-55-6	9.90
Dodecan-1-ol, ethoxylated	9002-92-0	5.50
Propan-2-ol	67-63-0	5.00

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** : If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Ensure sufficient ventilation during and after use, in order to prevent vapour accumulation. Seek immediate medical attention.

## **4. First aid measures**

- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash the contaminated skin gently and thoroughly with running water and non-abrasive soap. If on clothes, remove clothes. Get medical attention if adverse health effects persist or are severe.
- Eye contact** : Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention immediately.
- 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** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## **5. Fire-fighting measures**

- Extinguishing media** : Extinguish fire using an agent suitable for the surrounding fire.
- Special exposure hazards** : 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. This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## **6. Accidental release measures**

- Personal precautions** : Wear suitable protective clothing, gloves and eye/face protection. Avoid contact with eyes, skin and clothing.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
- Methods for cleaning up** : Wash with plenty of soap and water. Use a water rinse for final clean-up.

## **7. Handling and storage**

- Handling** : Avoid contact with skin and eyes. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10).
- Storage** : Store in a cool, dry, well-ventilated place. Avoid contamination by any source including metals, dust and organic materials. Keep packages tightly closed. Store in a dry, well-ventilated place.

## 8. Exposure controls/personal protection

### Occupational exposure limits

Ingredient name	Exposure limits
propane-1,2-diol	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Particulate TWA: 150 ppm 8 hours. Form: Vapor and particulates TWA: 474 mg/m <sup>3</sup> 8 hours. Form: Vapor and particulates
propane-1,2-diol	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Particulate TWA: 150 ppm 8 hours. Form: Vapor and particulates TWA: 474 mg/m <sup>3</sup> 8 hours. Form: Vapor and particulates
Propan-2-ol	<b>Safe Work Australia (Australia, 1/2014).</b> STEL: 1230 mg/m <sup>3</sup> 15 minutes. STEL: 500 ppm 15 minutes. TWA: 983 mg/m <sup>3</sup> 8 hours. TWA: 400 ppm 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** : In case of insufficient ventilation, wear suitable respiratory equipment. No special ventilation requirements.
- Hygiene measures** : When using do not eat, drink or smoke. Avoid contact with eyes, skin and clothing.
- Eyes** : None.
- Hands** : Wear suitable gloves.
- Respiratory** : In case of insufficient ventilation, wear suitable respiratory equipment.
- Skin** : Wear suitable protective clothing.
- 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.
- Color** : Colorless to light yellow.
- Odor** : Ammoniacal.
- Relative density** : 0.985 to 1.05
- Density** : 1.1 to 2.1 g/cm<sup>3</sup>
- Flash point** : Closed cup: 51.1°C (124°F)
- pH** : 9.1 to 10.1
- Flame duration** : Not applicable.

## 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** : Avoid contact with ignition and heat sources. Keep away from direct sunlight.
- Materials to avoid** : metals strong acids
- Hazardous decomposition products** : Ammonia.

## 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** : Irritating to mouth, throat and stomach.
- Skin contact** : Irritating to skin.
- Eye contact** : May cause eye irritation.

### Acute toxicity

Product/ingredient name	Result	Dose	Exposure
propane-1,2-diol	LD50 Dermal LD50 Oral	20800 mg/kg 20 g/kg	- -
propane-1,2-diol	LD50 Dermal LD50 Oral	20800 mg/kg 20 g/kg	- -
Propan-2-ol	LD50 Dermal LD50 Oral	12800 mg/kg 5000 mg/kg	- -

**Conclusion/Summary** : Not available.

### Potential chronic health effects

#### Chronic toxicity

**Conclusion/Summary** : Not available.

#### Irritation/Corrosion

Product/ingredient name	Result	Score	Exposure	Observation
propane-1,2-diol	Eyes - Mild irritant	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	-	100 milligrams	-
	Skin - Moderate irritant	-	96 hours 30 Percent continuous	-
	Skin - Mild irritant	-	168 hours 500 milligrams	-
	Skin - Moderate irritant	-	72 hours 104 milligrams Intermittent	-
	Skin - Mild irritant	-	96 hours 30 Percent	-
propane-1,2-diol	Eyes - Mild irritant	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	-	100 milligrams	-
	Skin - Moderate irritant	-	96 hours 30 Percent continuous	-
	Skin - Mild irritant	-	168 hours 500 milligrams	-
	Skin - Moderate irritant	-	72 hours 104 milligrams Intermittent	-
	Skin - Mild irritant	-	96 hours 30 Percent	-
Dodecan-1-ol, ethoxylated	Eyes - Severe irritant	-	24 hours 750 Micrograms	-
	Skin - Moderate irritant	-	72 hours 6 milligrams Intermittent	-
	Skin - Mild irritant	-	24 hours 500 milligrams	-
	Skin - Moderate irritant	-	24 hours 500 milligrams	-

## 11. Toxicological information

Propan-2-ol	Eyes - Moderate irritant	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	-	10 milligrams	-
	Eyes - Severe irritant	-	100 milligrams	-
	Skin - Mild irritant	-	500 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** : No specific data.

**Ingestion** : No specific data.

**Skin** : Adverse symptoms may include the following:  
irritation  
redness

**Eyes** : No specific data.

**Target organs** : Contains material which may cause damage to the following organs: blood, kidneys, liver, spleen, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

## 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** : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
propane-1,2-diol	Acute EC50 >110 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1020000 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
propane-1,2-diol	Acute LC50 710000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute EC50 >110 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1020000 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
Dodecan-1-ol, ethoxylated	Acute LC50 710000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 6460 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
Propan-2-ol	Acute LC50 1500 µg/l Fresh water	Fish - Salmo salar - Parr	96 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours

## 12. Ecological information

**Conclusion/Summary** : Not available.

**Other ecological information**

**Persistence/degradability**

**Conclusion/Summary** : Not available.

**Bioaccumulative potential**






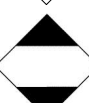
Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
propane-1,2-diol	-1.07	-	low
propane-1,2-diol	-1.07	-	low
Propan-2-ol	0.05	-	low

**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

Regulation	UN number	Proper shipping name	Classes	PG*	Label	Additional information
<b>ADG</b>	Not regulated.	-	-	-		-
<b>ADR</b>	UN1993	FLAMMABLE LIQUIDS, N.O. S.	3	III	  	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  <b>Hazard identification number</b> 30  <b>Limited quantity</b> LQ7  <b>Special provisions</b> 274 601 640E  <b>Tunnel code</b> (D/E)
<b>IMDG</b>	UN1993	FLAMMABLE LIQUIDS, N.O. S.. Marine pollutant (Dodecan-1-ol, ethoxylated, Alcohols, C12-15, ethoxylated)	3	III	  	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  <b>Emergency schedules (EmS)</b> F-E, _S-E_  <b>Special provisions</b> 223, 274, 955

## 14. Transport information

IATA	UN1993	FLAMMABLE LIQUIDS, N.O. S.	3	III	 	<p>The environmentally hazardous substance mark may appear if required by other transportation regulations.</p> <p><b>Passenger and Cargo Aircraft</b> Quantity limitation: 60 L Packaging instructions: 309</p> <p><b>Cargo Aircraft Only</b> Quantity limitation: 220 L Packaging instructions: 310</p> <p><b>Limited Quantities - Passenger Aircraft</b> Quantity limitation: 10 L Packaging instructions: Y309</p> <p><b>Special provisions</b> A3</p>
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PG\* : Packing group

## 15. Regulatory information

### [Standard Uniform Schedule of Medicine and Poisons](#)

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** : 1/29/2018

### 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.