SAFETY DATA SHEET
Juice Crystal Glass Cleaner

According to *Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice*, 2011

SECTION 1: Identification: Product Identifier and Chemical Identity

Product Identifier

Product name Juice Crystal Glass Cleaner

Product no. JPCGC500

Relevant identified uses of the substance or mixture and uses advised against

Application Window glass cleaner

Uses advised against For professional use only. This product is not recommended for any other industrial, professional or consumer use other than specified above.

Details of the supplier of the Safety Data Sheet

Supplier

Sydney Automotive Paint and Equipment Pty Ltd
Unit A3, 366 Edgar Street
Condell Park
NSW 2200
Australia
Tel: +61 2 9772 9000
Email: reception@sape.com.au
www.juicepolishes.com.au
www.sape.com.au

NZ Distributor

Resene Automotive & Light Industrial
4 Te Apunga Place
Sylvia Park
Auckland
NZ 1641
Tel: +64 9 259 2738
www.resene.co.nz

Emergency Information

Emergency telephone NZ Poison Information Centre 0800 764 766 or +64 3 479 7248

General medical information +61 2 9772 9000 (Mon to Fri, 08:00-16:00 AEST)

Transport information +61 2 9772 9000 (Mon to Fri, 08:00-16:00 AEST)

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SECTION 2: Hazard(s) Identification

Classification of the substance or mixture

Physical and health hazards Not classified as hazardous according to New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations, 2001

Not classified as a dangerous good according to NZS 5433:2012, Transport of Dangerous Goods on Land, UN, IMDG and IATA.

HSNO Classification Not classified as hazardous.

Environmental hazards Not classified

Label elements

GHS hazard symbols Not classified

GHS signal word Not classified

Hazard statements Not classified

Precautionary statements Not classified

Given for information only:

P261 – Avoid breathing spray.

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 – Dispose of contents/container in accordance with national regulations.

Other hazard information

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition and Information on Ingredients

The product is a mixture.

2-Butoxyethanol CAS number 111-76-2	GHS Hazardous: Y	5<10%
Ethanol CAS number 64-17-5	GHS Hazardous: Y	3<5%
Propan-2-ol CAS number 67-63-0	GHS Hazardous: Y	0.5<0.7%
Butanone CAS number 78-93-3	GHS Hazardous: Y	0.5<0.7%

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SECTION 4: First Aid Measures

Description of first aid measures

General information Get medical attention if any discomfort continues. Show this Safety Data Sheet to any medical personnel.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

Ingestion Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Skin Contact Remove affected person from source of contamination. Rinse immediately with plenty of water.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

Most important symptoms and effects, both acute and delayed

General information See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.

Skin contact Prolonged contact may cause dryness of the skin.

Eye contact May cause temporary eye irritation.

Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

Specific treatments No special treatment required.

SECTION 5: Fire Fighting Measures

Extinguishing media

Suitable extinguishing media The product is not flammable.

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion products Thermal decomposition or combustion products may include harmful gases or vapours.

Advice for firefighters

Protective actions Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to Australia/New Zealand Standards AS/NZS 4967 (for clothing) AS/NZS 1801 (for helmets), AS/NZS 4821 (for protective boots), AS/NZS 1801 (for protective gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental Release Measures

Precautions, protective equipment and emergency procedures

Personal precautions No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage.

Environmental precautions Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Approach the spillage from upwind. Small Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. Large Spillages: If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labelled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. The contaminated absorbent may pose the same hazard as the spilled material. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Reference to other sections

Reference to other sections For personal protection, see Section 8.

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SECTION 7: Handling and Storage

Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists.

Occupation hygiene Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in accordance with local regulations.

Storage class Chemical storage.

Specific end use(s)

Specific end use The identified uses for this product are detailed in Section 1.

SECTION 8: Exposure Controls and Personal Protection

Occupational exposure limits

2-Butoxyethanol	Long-term exposure limit (8-hour TWA):	20 ppm	96.9 mg/m³
	Short-term exposure limit (15-minute):	50 ppm	242 mg/m³
	Absorption through the skin may be a significant source of exposure.		
Ethanol	Long-term exposure limit (8-hour TWA):	1000 ppm	1880 mg/m³
Propan-2-ol	Long-term exposure limit (8-hour TWA):	400 ppm	983 mg/m³
	Short-term exposure limit (15-minute):	500 ppm	1230 mg/m³
Butanone	Long-term exposure limit (8-hour TWA):	150 ppm	445 mg/m³ NOHSC
	Short-term exposure limit (15-minute):	300 ppm	890 mg/m³ NOHSC

Exposure controls

Protective equipment

Engineering controls Provide adequate ventilation. Good general ventilation should be adequate to control worker exposure to airborne contaminants.

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Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with Australia/New Zealand Standard AS/NZS 1337. Wear tight-fitting, chemical splash goggles or face shield.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with Australia/New Zealand Standard AS/NZS 2161. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
Hygiene measures	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Provide adequate ventilation. Large spillages: if ventilation is inadequate, suitable respiratory protection must be worn.
Environmental exposure control	Not regarded as dangerous to the environment.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Light blue.
Odour	Characteristic.
pH	Not applicable.
Melting point	< 0°C
Initial boiling point and range	> 100°C
Flash point	No information available.
Other flammability	This product does not sustain combustion, according to the sustained combustibility test L.2, Part III, section 32 of the UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria.
Viscosity	~ 1 cSt @20°C
Volatile organic compounds	This product contains a maximum VOC content of 12%.
Comments	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

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SECTION 10: Stability and Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
Possibility of hazardous reactions	No potentially hazardous reactions known.
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.
Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
Hazardous decomposition	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include harmful gases or vapours.

SECTION 11: Toxicological Information

Information on toxicological effects

Toxicological effects	There is no evidence that the product can cause cancer.

Acute toxicity - oral

Notes (oral LD_{50})	Based on available data the classification criteria are not met.
ATE oral (mg/kg)	21,079.94

Acute toxicity - dermal

Notes (dermal LD_{50})	Based on available data the classification criteria are not met.
ATE dermal (mg/kg)	17,836.87

Acute toxicity - inhalation

Notes (inhalation LC_{50})	Based on available data the classification criteria are not met.
ATE inhalation (mg/kg)	178.37

Skin corrosion/irritation

Animal data	Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation	Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation	Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation	Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro	Based on available data the classification criteria are not met.

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Carcinogenicity

Carcinogenicity	Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard	Based on available data the classification criteria are not met.

General information	No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Prolonged inhalation of high concentrations may damage respiratory system.
Ingestion	Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.
Skin Contact	Prolonged contact may cause dryness of the skin.
Eye contact	May cause temporary eye irritation.
Route of entry	Ingestion Inhalation Skin and/or eye contact
Target organs	No specific target organs known.
Medical symptoms	No specific symptoms noted, but this chemical may still have adverse health impact, either in general or on certain individuals.
Medical considerations	Not known.

Toxicological information on ingredients

2-Butoxyethanol

Acute toxicity – oral	Acute toxicity oral (LD_{50} mg/kg)	1,300.0	Rat
	ATE oral (mg/kg)	1,300.0	
Acute toxicity - dermal	Acute toxicity dermal (LD_{50} mg/kg)	2,270.0	Rat
	ATE dermal (mg/kg)	1,100.0	
Acute toxicity - inhalation	ATE inhalation (vapours mg/l)	11.0	

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro	Negative. This substance has no evidence of mutagenic properties

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Carcinogenicity

IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity - fertility	Fertility - NOAEL 720 mg/kg, Mouse
Reproductive toxicity - development	Developmental toxicity - NOAEL 100 mg/kg, Rat

Propan-2-ol

Acute toxicity – oral	Acute toxicity oral (LD_{50} mg/kg)	5,840.0	Rat
Acute toxicity - dermal	Acute toxicity dermal (LD_{50} mg/kg)	16.4	Rabbit
Acute toxicity - inhalation	ATE inhalation (vapours mg/l)	11.0	
Respiratory sensitisation	Not sensitising.		
Skin sensitisation	No sensitising.		

Carcinogenicity

IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Inhalation	Drowsiness, dizziness, disorientation, vertigo.
Ingestion	No specific health hazards known.
Skin contact	No specific health hazards known.
Eye contact	Irritating to eyes.

SECTION 12: Ecological Information

Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
Toxicity	Based on available data the classification criteria are not met.
Persistence and degradability	The degradability of the product is not known.
Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	Not available.
Mobility in soil	The product is soluble in water and may spread in the aquatic environment. The product is non-volatile.
PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.
Other adverse effects	None known.

Ecological information on ingredients

2-Butoxyethanol

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Ecotoxicity Not regarded as dangerous for the environment.

Acute toxicity-fish LC_{50}, 96 hours: > 100 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity-aquatic invertebrates EC_{50}, 48 hours: 1550 mg/l, Daphnia magna

Acute toxicity-aquatic plants EC_{50} : >100 mg/l

Acute toxicity-microorganisms EC_{50} : >1000 mg/l

Chronic toxicity-fish early life stage NOEC, 21 days: >100 mg/l

Chronic toxicity-aquatic invertebrates NOEC, 21 days: >100 mg/l, daphnia magna

Persistence and biodegradability The product is biodegradable.

Biodegradation Water- degradation (%) 90.4: 28 days

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log Pow: 0.05

Mobility in soil The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

Adsorption/desorption coefficient Water – Koc: ~67

Henry's Law constant 0.000016 atm m^3/mol

Surface tension 65mN/m

<u>Propan-2-ol</u>

Ecotoxicity The product is not expected to be hazardous to the environment.

Acute toxicity-fish LC_{50}, 96 hours: > 9640 mg/l, Pimephales promelas (Fat-head minnow)

Acute toxicity-aquatic invertebrates EC_{50}: > 1000 mg/l, daphnia magna

Acute toxicity-aquatic plants EC_{50}, 72 hours : >1000 mg/l, Scenedesmus subspicatus

Acute toxicity-microorganisms EC_{50} : >1000 mg/l, activated sludge

Persistence and biodegradability The product is expected to be biodegradable.

Biodegradation Degradation (%) 95: 21 days

Biological oxygen demand ~1171 g O_2/g substance

Chemical oxygen demand ~2294 g O_2/g substance

Mobility in soil The product is water soluble.

Adsorption/desorption coefficient Water – Koc: ~1.1

Henry's Law constant 0.00000338 atm m^3/mol @25°C

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SECTION 13: Disposal Considerations

Waste treatment methods

General information The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

Disposal methods Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

SECTION 14: Transport Information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

UN number Not applicable.

UN proper shipping name Not applicable.

Transport hazard class(es) No transport warning sign required.

Packing group Not applicable.

Environmentally hazardous substance/marine pollutant No

Special precautions for user Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory Information

Inventories

Australia – AICS All the ingredients are listed or exempt.

NZIoC All the ingredients are listed or exempt.

HSNO Approval Code Not assigned, non-hazardous

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SECTION 16: Any Other Relevant Information

General information	This product has been manufactured under ISO 9001 and ISO 14001 Quality and Environmental Management Systems. Only trained personnel should use this material.
Training advice	Read and follow manufacturer's recommendations. Only trained personnel should use this material**.**
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
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