



# Safety Data Sheet

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name/Identifier</b>	5-in-1 Surface Cleaner
<b>Product Code</b>	BC8613
<b>Product Use</b>	For cleaning of precision components such as periscopes, mirrors in copiers, LCD Monitors, touch screen monitors, optical lens etc.
<b>Company Information</b>	Vance Chemicals Pte Ltd No.24 Gul Lane Singapore 629418 +65 6863 0863 <a href="mailto:msds@mr-mckenic.com">msds@mr-mckenic.com</a>
<b>Emergency Contact</b>	+65 9299 8024

## SECTION 2 HAZARDS IDENTIFICATION

### GHS CLASSIFICATION

<b>Health</b>		<b>Environmental</b>	<b>Physical</b>
Eye irritation	Category 3	Not Classified	Not Classified
Skin irritation	Category 2		

### GHS LABEL:

### EU LABEL:

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## Hazard Statements:

Code	Health hazard statements	Hazard class	Hazard category
H316	Causes mild skin irritation	Skin corrosion/irritation (chapter 3.2)	3
H320	Causes eye irritation	Eye damage/irritation(chapter 3.3)	2

## Precautionary Statements

Code	Prevention precautionary statements	Hazard class	Hazard category
P264	Wash thoroughly after handling	Eye damage/irritation(chapter 3.3)	2

## Response:

Code	Response precautionary statements	Hazard class	Hazard category
P305+P351 +P338	<b>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</b>	Eye damage/irritation(chapter 3.3)	2
P332+P313	<b>If skin irritation occurs: Get medical advice/attention.</b>	Skin corrosion/irritation (chapter 3.2)	3
P337+P313	<b>If eye irritation persists: Get medical advice/attention.</b>	Eye damage/irritation(chapter 3.3)	2

## SECTION 3 COMPOSITIONS / INFORMATION ON INGREDIENTS

Chemical Identity	CAS #	EINECS #	R Phrase	S Phrase	Weight %
Isopropyl alcohol	67-63-0	200-661-7	R11,R36,R67	S7, S16, S24/25, S26	10-30
Non-hazardous materials	Mixture	-	-	-	>80

## SECTION 4 FIRST AID MEASURES

<b>Eye contact</b>	Immediately flush thoroughly with water for at least 15 minutes.
<b>Skin contact</b>	Wash thoroughly with soap and water.
<b>Inhalation</b>	Remove to open area for fresh air. If rapid recovery does not occur, transport to the nearest medical facility for additional treatment.
<b>Ingestion</b>	If conscious, give water and induce vomiting immediately as directed by medical personnel.



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## SECTION 5 FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Dry chemical, "alcohol" foam, or carbon dioxide. Use water spray to cool fire-exposed containers and disperse vapors.
<b>Unsuitable Extinguishing Media</b>	No restrictions
<b>Specific Hazards Arising from the Chemical</b>	Decomposition under fire conditions will generate carbon monoxide and may generate other potentially toxic vapors.
<b>Protection for Fire-fighters</b>	Wear self-contained NIOSH-approved breathing apparatus (e.g., chemical cartridge respirator with an organic vapor cartridge and full face piece). Keep containers cool and reduce vapors with water spray.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions and Protective Equipment</b>	Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Keep away from open flames, hot surfaces and sources of ignition. Keep away from incompatible products. Isolate the area. Cover the spreading liquid with foam in order to slow down the evaporation. Ventilate the area.
<b>Environmental Precautions</b>	Prevent discharges into the environment (sewers, rivers, soils). Immediately notify the appropriate authorities in case of discharge.
<b>Method for Cleaning Up &amp; Containment</b>	If possible, dam large quantities of liquid with sand or earth. Collect the product with suitable means. Place everything into a closed, labeled container compatible with the product. Flush with plenty of water. Prevent product from entering drains. Treat recovered material as described in the section "Disposal considerations".
<b>Emergency Procedures</b>	Shut off leaks, if possible without personal risks. Remove all possible ignitions in the surrounding area. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth or other appropriate barriers. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Monitor area with combustible gas indicator.

## SECTION 7 HANDLING AND STORAGE

<b>Normal handling:</b> Always wear recommended personal protective equipment.
<b>Storage recommendation:</b> Keep container closed. Store in a cool area away from oxidizers. Do not breathe vapor. Do not get in eyes. Avoid prolonged, or repeated, skin contact.
Storage/Transport Pressure: Atmospheric



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## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
Isopropyl alcohol	Not Established	400ppm	400ppm	500ppm

<b>Engineering Controls</b>	Material should be handled or transferred in an approved fume hood or with adequate ventilation. If workplace exposure limit (s) of product or any component is exceeded (see TLV/PEL); a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety equipment supplier)
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### Personal Protective Equipment (PPE):

<b>Eye Protection</b>	Eye protection is not required under normal conditions of use. If material is handled such that it could be splashed into eyes, wear plastic face shield or splash-proof safety goggles.
<b>Skin Protection</b>	Apron/boots of neoprene if risk of splashing. For hand protection, use chemical resistant protective gloves such as Polyvinyl alcohol coated gloves.
<b>Respiratory Protection</b>	In the case of hazardous fumes, wear self contained breathing apparatus. Self-contained breathing apparatus in medium confinement/insufficient oxygen/in case of large uncontrolled emissions/in all circumstances when the mask and cartridge do not give adequate protection
<b>Thermal hazards</b>	NA

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Milky
<b>Odour</b>	Citrus
<b>Odour Threshold</b>	NA
<b>pH</b>	9 -11
<b>Melting Point/ Freezing Point (°C)</b>	Not determined
<b>Initial boiling point and range (°C)</b>	Not determined
<b>Flash Point (°C) [According to ISO 3679, Closed Cup Testing]</b>	Not applicable
<b>Evaporation Rate</b>	Not determined



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Flammability (solid, gas)	Not applicable
Vapour Pressure	Not determined
Upper/lower Flammability (Explosive) Limits:	Not determined
Vapour Density	Not determined
Relative Density	0.98 ± 0.03
Solubility in water	Soluble
Partition coefficient (N-Octanol/water)	Not determined
Auto-ignition Temperature (°C)	Not determined
Decomposition Temperature:	Not determined
Viscosity (mPa s)	Not determined

### SECTION 10 STABILITY AND REACTIVITY

Reactivity/Incompatible materials	Acids, oxidizers, halogens and halogen compounds; aldehydes
Chemical Stability	Stable under ordinary conditions of use and storage.
Possibility of hazardous reactions	Not determined
Hazardous decomposition products	No decomposition if stored normally
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources.
Materials to avoid	Acids, oxidizers, halogens and halogen compounds; aldehydes

### SECTION 11 TOXICOLOGICAL INFORMATION

<b>Ingredient Name:</b> Isopropyl alcohol
<b>Effects on humans:</b> <u>Eye contact</u> - Can cause eye irritation <u>Skin contact</u> - May cause mild skin irritation <u>Ingestion</u> - Swallowing small amounts during normal handling is not likely to cause harmful effects. Swallowing large amounts may be



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harmful. Swallowing large amounts may cause gastrointestinal tract irritation with nausea, vomiting and diarrhea, abdominal pain. It also may affect the urinary system, cardiovascular system, sense organs, behavior or central nervous system (somnolence, generally depressed activity, irritability, headache, dizziness, drowsiness), liver, and respiratory system (breathing difficulty).

**Inhalation**

- Breathing in small amounts of this material during normal handling is not likely to cause harmful effects. However, breathing large amounts may be harmful and may affect the respiratory system and mucous membranes (irritation), behavior and brain (Central nervous system depression - headache, dizziness, drowsiness, and stupor, in coordination, unconsciousness, coma and possible death), peripheral nerve and sensation, blood, urinary system, and liver.

**Acute toxicity:**

Acute oral toxicity (LD50): 5650 mg/kg [Rat].  
 Acute dermal toxicity (LD50): Not established.  
 Acute inhalation (LC50): 12500 ppm [Rat].

**Skin corrosion/irritation:** Not irritating to skin. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.

**Serious eye damage/irritation:** May cause eye irritation

**Carcinogenicity:** Not listed under IARC.

**Specific target organ toxicity:** Classified Reproductive system/toxin/female, Development toxin [POSSIBLE]. May cause damage to the following organs: kidneys, liver, skin, central nervous system (CNS)

**Chronic effects/Other toxicological information:** May cause defatting of the skin and dermatitis and allergic reaction. May cause adverse reproductive effects based on animal data (studies). May cause adverse reproductive/teratogenic effects (fertility, fetotoxicity, developmental abnormalities (developmental toxin)) based on animal studies. Detected in maternal milk in human.

### SECTION 12 ECOLOGICAL INFORMATION

<b>Toxicity</b>	<u>Acute ecotoxicity</u> Fishes; Low toxicity: LC/EC/IC50>100mg/l Aquatic Invertebrates; Low toxicity: LC/EC/IC50>1000mg/l Algae: Expected to have low toxicity: LC/EC/IC50>1000mg/l Microorganism: low toxicity: LC/EC/IC50>1000mg/l
<b>Persistence/Degradability</b>	Readily biodegradable meeting the 10 day window criterion. Oxidizes rapidly by photo-chemical reactions in the air
<b>Bio accumulative Potential</b>	Not expected to bioaccumulate significantly
<b>Mobility in soil</b>	It will have high mobility in soil and potential to leach into groundwater. Upon release to the environment, the compound is expected to partition to and be transported in surface water and groundwater.



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## SECTION 13 DISPOSAL CONSIDERATIONS

### Local legislation

Dispose in compliance with local/federal and national regulations. It is recommended to contact the producer for recycling/recovery. Or send the product to an authorized hazardous waste incinerator.

### Container Disposal

To avoid treatments, as far as possible, use dedicated containers. If not, rinse the empty containers with a low volatility hydrocarbon and treat the effluent in the same way as waste. Containers that cannot be cleaned must be treated as waste.

## SECTION 14 TRANSPORT INFORMATION

### Land (ADR)

UN number	Not Regulated
UN Class	NA
Subsidiary risk	NA
Packing Group	NA
Proper shipping name	NA
HIN	NA

### Sea (IMDG)

UN number	Not Regulated
UN Class	NA
Subsidiary risk	NA
Packing Group	NA
Proper shipping name	NA
Marine pollutant	NA

### Sea (Annex II of MARPOL 73/78 and the IBC Code)

Pollution category	NA
Ship type	NA



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Product name	NA
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## Air (IATA)

UN number	Not Regulated
UN Class	NA
Subsidiary risk	NA
Packing Group	NA
Proper shipping name	NA

## Special precautions:

Before transportation, make sure the containers are tightly sealed and that there are no liquid or gas leaks.
When transporting containers, be sure that they are tightly fastened. An appropriate buffer material should be placed between them to prevent them from bumping each other and being damaged during transport.

## SECTION 15 REGULATORY INFORMATION

### EU Information

#### Risk Phrase:

R11	Highly flammable
R36	Irritating to eyes.
R67	Vapours may cause drowsiness and dizziness.

#### Safety Phrase:

S7	Keep container tightly closed.
S16	Keep away from sources of ignition – No smoking
S24/S25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### USA Information

#### Comprehensive Environmental Response and Liability Act of 1980 (CERCLA)

<u>Ingredient</u>	<u>CAS #</u>	<u>CERCLA RQ</u>	<u>RCRA Code</u>
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Isopropyl alcohol	67-63-0	-	-
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**Superfund Amendments and Reauthorization Act (SARA) Title III Information:  
SARA Section 311/312 (40 CFR 370) Hazard Categories:**

<u>Ingredient</u>	<u>Acute Hazard</u>	<u>Chronic Hazard</u>	<u>Fire Hazard</u>	<u>Pressure Hazard</u>	<u>Reactivity Hazard</u>
Isopropyl alcohol	Yes	Yes	No	No	No

**This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):** Isopropyl alcohol

**Canada Information**

**WHMIS classification:**

Isopropyl alcohol

- B2 Flammable liquid
- D2B Toxic material causing other toxic effects

**SECTION 16 OTHER INFORMATION**

**Department issuing date sheet:** Vance Chemicals Quality Control and Laboratory

**Original Issue date:** 1<sup>st</sup> January 2010

**Issue date:** N.A

**Revision date:** 7<sup>th</sup> July 2011

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