



Safety Data Sheet

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name/Identifier GK Concentrate Disinfectant Cleaner

Product Code AV8312(4)

Product Use Actively removes dirt and germs for multipurpose cleaning

Company Information Vance Chemicals Pte Ltd
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Emergency Contact +65 9299 8024

SECTION 2 HAZARDS IDENTIFICATION

GHS CLASSIFICATION (For GK Concentrate™ Neat)

Health		Environmental	Physical
Skin irritation	Category 2	Not Classified	Not Classified
Eye irritation	Category 2		

GHS LABEL:



SIGNAL WORD: Warning

Hazard Statements:

H315 Causes skin irritation

H320 Causes eye irritation

Prevention Precautionary Statements:

P264 Wash face, hands and any exposed skin thoroughly after handling.

P280 Wear eye protection/face protection/protective gloves.

Response Precautionary Statements:

P362 Take off contaminated clothing and wash before use.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P337+P313 If eye irritation persists: Get medical advice/attention.

P332+P313 If skin irritation occurs: Get medical advice/attention.

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

Disposal:

P501 Dispose of contents/container to local/regional/national/international regulations



Safety Data Sheet

GHS CLASSIFICATION (For 1 part GK Concentrate™: 40 parts water dilution)

Health	Environmental	Physical
Not Classified	Not Classified	Not Classified

GHS LABEL:
Not Classified

There is no risk or hazards based on GHS classification criteria.

SECTION 3 COMPOSITIONS / INFORMATION ON INGREDIENTS

Chemical Identity	CAS #	Weight %
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	68424-95-3	<5
Non-hazardous materials	Mixture	>95

SECTION 4 FIRST AID MEASURES

Eye contact

Immediately flush eyes with large amounts of water for at least 15 minutes while holding the eyelids open. Get medical attention.

Skin contact

Remove contaminated clothing and shoes. Flush exposed area with large amount of water for at least 15 minutes followed by washing with soap. Get medical attention.

Inhalation

Remove to open area for fresh air. If breathing is difficult, give oxygen. Get medical attention.

Ingestion

If swallowed, do not induce vomiting without medical advice. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspirations. Get medical attention.

SECTION 5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Use water spray, carbon dioxide, dry chemical powder, fog or foam to cool fire exposed surfaces and to protect personnel.

Unsuitable Extinguishing Media

Do not use water in a jet.

Specific Hazards Arising from the Chemical

Decomposition under fire conditions will generate toxic gas.

Protection for Fire-fighters

Evacuate personnel to safe areas. Intervention only by capable personnel who are trained and aware of the hazards of the product. In the event of fire, wear self-contained breathing apparatus. When intervention in



Safety Data Sheet

close proximity wear acid resistant over suit. Clean contaminated surface thoroughly.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment

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.

Environmental Precautions

Prevent discharges into the environment (sewers, rivers, soils). Immediately notify the appropriate authorities in case of discharge.

Method for Cleaning Up & Containment

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".

Emergency Procedures

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

Precautions for Safe Handling: Use proper bonding and grounding (earthing) all equipment. Electrostatic discharge may cause fire. Prevent small spills and leakage to avoid slip hazard. Avoid contact with skin.

Conditions for Safe Storage: Keep container dry. Ground all equipment containing material. Keep container tightly closed. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents. Keep in a cool, well-ventilated place.

Storage temperature: Ambient

Storage/Transport Pressure: Atmospheric

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	Not Established	Not Established	Not Established	Not Established

Engineering Controls

Ensure adequate ventilation. Provide appropriate exhaust ventilation at machinery. Refer to protective measures listed in sections 7 and 8. Apply technical measures to comply with the occupational exposure



Safety Data Sheet

limits.

Personal Protective Equipment (PPE):

Eye Protection

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.

Skin Protection

Apron/boots of neoprene if risk of splashing. For hand protection, use chemical resistant protective gloves such as Polyvinyl alcohol coated gloves.

Respiratory Protection

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

Thermal hazards

NA

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear
Odour	Jasmine
Odour Threshold	Not Available
pH	7
Melting Point/ Freezing Point (°C)	Not determined
Initial boiling point and range (°C)	Not determined
Flash Point (°C) [According to ISO 3679, Closed Cup Testing]	No flash point detected (From ambient temperature to 93°C)
Evaporation Rate	Not determined
Flammability (solid, gas)	Not applicable
Vapour Pressure	Not determined
Upper/lower Flammability (Explosive) Limits:	Not determined
Vapour Density	Not determined
Relative Density	0.99 ± 0.03
Solubility in water	Soluble
Partition coefficient (N-Octanol/water)	Not determined
Auto-ignition Temperature (°C)	Not determined



Safety Data Sheet

Decomposition Temperature: Not determined
Viscosity (mPa s) Not determined

SECTION 10 STABILITY AND REACTIVITY

Reactivity/Incompatible materials

Strong oxidizers.

Chemical Stability

Stable under ordinary conditions of use and storage.

Possibility of hazardous reactions

Combustion and thermal decomposition.

Hazardous decomposition products

Thermal decomposition may produce toxic vapours/ fumes of hydrogen chloride, amines and other organic materials, and oxides of carbon and nitrogen.

Conditions to avoid

None known

Materials to avoid

Strong oxidizing agents, reducing agents, strong acids.

SECTION 11 TOXICOLOGICAL INFORMATION

Information in this sections are applicable for 1 part GK Concentrate™ to 40 parts water dilution

Acute Toxicity

Acute oral toxicity (LD50) : 5000 mg/kg
Species: Wistar Rat; no deaths were observed during the study.
Observation period: 14 days
Method: OECD 423

Acute dermal toxicity (LD50) : 2000 mg/kg
Species: Wistar Rat; no deaths were observed during the study.
Exposure time: 24 hours
Observation period: 14 days
Method: OECD 402

Acute inhalation toxicity (LC50) : 5.08 mg/L
Species: Wistar Rat; no deaths were observed during the study.
Exposure time: 24 hours
Observation period: 14 days
Method: OECD 403

Acute Dermal Irritation/Corrosion

Dermal Irritation : Non-irritant
Species: White Rabbits; no deaths were observed during the study.
Exposure time: 4 hours
Observation period: 72 hours
Method: OECD 404



Safety Data Sheet

Acute Eye Irritation/Corrosion

Eye Irritation : Non-irritant
Species: White Rabbits; no deaths were observed during the study.
Observation period: 72 hours
Method: OECD 405

Skin Sensitizer

: Not a skin sensitizer
Species: Guinea Pig; no deaths were observed during the study.
Exposure time: 24 hours
Observation period: 22 days
Method: OECD 406

Carcinogenicity: Not listed under IARC.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Non-Toxic

Persistence/Degradability

Not expected to bio-accumulate significantly

Bio accumulative Potential

Not expected to bio-accumulate significantly

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)



Safety Data Sheet

UN Number : Not Regulated
UN Class : NA
Subsidiary Risk : NA
Packing Group : NA
Proper Shipping Name : NA
HIN : NA

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

Pollution Category : NA
Ship Type : NA
Product Name : NA

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

Applicable national regulations:

Standards on Hazard communication for hazardous chemicals and dangerous goods

- SS 586: Part 1: 2014-Transport and storage of dangerous goods
- SS 586: Part 2: 2014-GHS of classification and labelling of chemicals
- SS 586: Part 3: 2008-Preparation of safety data sheet

MOM: Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations

- This product is subject to SDS, labelling, PEL and other requirements in the Acts/Regulations.

NEA: Environmental Protection and Management Act & Environmental Protection and Management (Hazardous Substances) Regulations

- This product is not subject to control under this Acts/Regulations.

SCDF: Fire Safety Act & Fire Safety (Petroleum and Flammable Materials) Regulations

- This product is not subject to the requirement of this Acts/Regulations.

SPF: The Arms and Explosive Act, the Arms and Explosives (Explosives) Rules, and the Arms and Explosives (Explosive Precursors) Rules

- This product is not subject to the requirement of this Acts/Regulations



Safety Data Sheet

SECTION 16 OTHER INFORMATION

Department issuing date sheet: Vance Chemicals Quality Control and Laboratory

Original Issue date: 23 Aug 2024

Revision no: 00

Revision date: -

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