Safety Data Sheet V1.6

UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS) compliant

Section 1 (Identification):

Product Description: A versatile and highly effective non-combustible, non-flammable, non-alcohol based sanitiser for use where working K9s could be a transport agent.
Trade name(s): K9san/K9
Product manufacturer: Lessing Research Laboratories, chemical division, 1986/021266/23
Address: P.O.Box 40012, Cleveland, 2022
Recommended use: Spray on animal coat, cover whole coat and areas coming in contact with humans. For K9 face, spray product on clean towel and wipe face, head and ears. Wait until K9 is dry to the touch, remember to touch K9 only with sanitized hands. Vehicle based K9s should be sanitised before being loaded. Not Classified dangerous per ICAO Dangerous Goods document No 9284.
Uses advised against: Do not add to detergents as a surface sanitizer.

Section 2 (Hazard information):

Hazard classification:

This chemical is not considered hazardous according to the OHSA Hazard communications standard.
Appearance: light yellow **Physical State:** Liquid **Odour:** no odour

Storage:

Store in a dry place at room temperature away from direct sunlight, do not expose to extreme heat.

Disposal:

Dispose of contents/container only to an approved waste disposal plant.

Unintended exposure:

Eye contact may cause mild, transient irritation. For irritation, rinse cautiously with water for several minutes. If contact lenses present, remove immediately if it is easy to do, continue rinsing. If eye irritation persists, seek medical advice/attention.
Skin contact or hair contact, no irritation, sensitizing, photo allergenic or photo toxic when used as intended. If irritation occurs following intended use or prolonged contact it is expected to be mild and transient.
Inhalation, may cause respiratory irritation, if persists seek medical advice/attention.

Other information:

This product when used according to instructions, is safe and presents no immediate or long-term health hazard. It is safe for consumers with intended and reasonable foreseeable use. Normal usage should not create hazardous conditions. Do not use in conjunction with any other detergents or hard waters. Under no circumstances should this product be exposed for extended periods to direct sunlight, the Hydrogen Peroxide stabilizer used in this product does not protect against Ultraviolet decomposition.

Section 3 (product composition):

Chemical name	CAS number	Percentage (w/w)
Benzalkonium Chloride	68424-85-1	< 0.5%
NI-90	26027-38-3	< 0.5%
2-Propanol	67-63-0	< 0.1%
Yellow Dye No 6	2783-94-0	< 0.0007%
Water	7732-18-5	< 96%

Appearance: Light yellow Aqueous solution
Physical Sate: Liquid
Odour: No odour

Section 4 (First Aid Measures):

Skin contact	None anticipated under foreseeable use conditions. Repeated or prolonged with this product may cause irritation in sensitive individuals. If irritation develops seek medical advice/assistance.
Eye contact	Flush with copious amount of clean water immediately. If contact lenses present flush for 5 minutes before removing lenses. Rinse effected eye(s) continuously for 15 to 20 minutes, if irritation persists seek medical advice/assistance.
Inhalation	None expected under foreseeable use conditions, if respiratory irritation is experienced, seek medical assistance/advice.
Ingestion	DO NOT induce vomiting. Drink lot of clean water, never give anything by mouth to an unconscious person and seek medical assistance.
Note to Physician	Treat symptomatically.

Section 5 (Fire Fighting measures):

Suitable extinguishing media: Water, Foam, Carbon Dioxide CO_2
Unsuitable extinguishing media: No information
Specific Hazard arising from product: No information

Explosive data:
Sensitivity to mechanical impact None
Sensitivity to electrostatic discharge None

Protective equipment and precautions:
As with all fires, use self-contained breathing apparatus and full protective gear. Cool product containers with flooding quantities of water until well after the fire is out.

Section 6 (Accidental release measures):

Emergency responders should isolate the area and keep unnecessary personal away.

Containment methods:

Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible Methods for cleaning up absorbent material, (e.g. sand, Di-atomaceous earth, vermiculite) and place in container for disposal according to local/national regulations.

Clean-up methods:

Use inert absorbent material to soak up spilled product. Sweep up and shovel absorbent material into suitable containers for disposal. Following product recovery, flush area with water.

Section 7 (Handling and storing measures):

Handle in accordance with good industrial hygiene and safety practice.
Store in a cool, dry place, keep away from heat.
Keep Containers tightly closed in a dry, cool and well-ventilated place. Store between 5°Celsius and 30°Celsius.

Incompatible materials:

Keep away from strong oxidizers.

Section 8 (Personal protection/Exposure control):

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Engineering Measures	Showers Eyewash stations Ventilation systems
Eye/Face Protection	No special protective equipment required.
Skin and Body Protection	No special protective equipment required.
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

See also section 11

Section 9 (Physical and Chemical Properties):

Basic physical characteristics:
Appearance: light green **Physical State:** Liquid **Odour:** light apple

Chemical properties:

pH	6.0 – 7.5
Melting Point/Range	No data
Boiling Point/Boiling Range	No data
Flash Point	No data
Evaporation rate	No data
Flammability (solid, gas)	No data
Partition coefficient: n-octanol/water	No data
Flammability Limits in Air	No data
upper flammability limit	No data
lower flammability limit	No data
Vapour Pressure	No data
Vapour Density	No data
Specific Gravity	0.97-1.03
Water Solubility	No data
Solubility in other solvents	No data
Auto-ignition Temperature	No data
Decomposition Temperature	No data
Viscosity	No data
Flammable Properties	Not flammable

Explosive Properties	Not explosive
Oxidizing Properties	No data

Section 10 (Stability and Reactivity):

Reactivity	No data available.
Chemical stability	Stable under recommended storage conditions.
Incompatible materials	Strong oxidizing agents.

Section 11 (Toxicological Information):

Information on the likely routes of exposure

Inhalation	Vapours may irritate throat and respiratory system.
Eye Contact	Contact with eyes may cause irritation.
Skin Contact	May cause irritation.
Ingestion	May be harmful if swallowed.

Exposure data:

2-Propanol CAS 67-63-0 generally accepted international exposure limits are:
ACGIH TWA: 200 ppm STEL: 400ppm
NIOSH REL TWA: 400 ppm (980 mg/m³)
NIOSH REL STEL: 500 ppm (1225 mg/m³)
Please refer to local health and safety procedures.

Toxicity data:

No toxic substances in composition.

Section 12 (ECOLOGICAL INFORMATION):

Information is included here for completeness as concentrations in product are lower than figures listed here.

2-Propanol 67-63-0

Fish LC50 Pimephales promelas	9.64-10.0g/L 96H exposure (Equivalent or similar to OECD 203)
Fresh water algae:	no data

Ecology -air:	Not included in the list of substances which may contribute to the greenhouse effect (IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Photo oxidation in the air. Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology -water:	Not harmful to Crustacea. Not harmful to fishes. Groundwater pollutant. Inhibition of activated sludge. Not harmful to algae. Not harmful to bacteria

Section 13 (Disposal Considerations)

Waste Disposal Methods:	This product, as supplied, is not a hazardous waste according to local regulations. This product could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult the appropriate state, regional, or local regulations for additional requirements.
Contaminated Packaging:	Do not re-use empty containers.

Section 14 (Transport Information)

This product is not regulated.

Section 15 (Regulatory Information)

U.S. Federal Regulations
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

EPA SARA 311/312 Hazard Categories	
Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Not listed in ICAO Dangerous Goods document No. 9284

Section 16 (General scientific Information):

Effectiveness against COVID-19, no hard empirical data exists but looking at the structure of the virus internationally the norm is to use products that contains Alcohols or Benzalkonium Chloride as per example https://www.canada.ca/en/health-canada/services/drugs-health-products/disinfectants/covid-19.html

When this product is used on clean and unsoiled hands, the effective percentage of Benzalkonium Chloride would be no less than 0.2%, internationally 0.13% is considered sufficient to kill envelope viruses on human skin.

Further references:
Inactivation of Viruses by Benzalkonium Chloride by J.A. Armstrong and E.J. Froelich
Disinfection efficacy against parvoviruses compared with reference viruses by M. Eterpi, G. McDonnell, V. Thomas
Virucidal efficacy of the newer quaternary ammonium compounds by M.A. Kennedy, V.S. Mellon, G. Caldwell, L.N. Potgieter.

Disclaimer

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