



Customer Retention Systems
– Innovative Hygiene Solutions
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HAND N SANI LIQUID

MATERIAL SAFETY DATA SHEET

DISCLAIMER AND IMPORTANT SAFETY NOTICE

All information is provided in good faith and as accurate as possible. CRS will not accept any liability pertaining to the use of its products, as it is up to the end user "consumer" to determine the correct and safe use of this product. Kindly study this document prior to using this product or contact us for additional technical advice. Please ensure that all personal storing, handling and using of this product are properly trained and informed with regards to any potential dangers and / or hazards pertaining to this product. Please ensure that this document is easily obtainable in the event of an emergency

Supplier Identification and Information

Manufacturing Name	CRS (Customer Retention Systems)
Address of Manufacturing	19 Pinelands Industrial Park, 110 Brackenhill Road, Waterfall KZN
Telephone Number	031-9427863
Emergency Contact	072 323 7656
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1 Product and Company Identification

Product Name : **Hand n Sani**
Product Description : Alcohol Based Hand Sanitizer containing QAC

2 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Concentration (%)</u>
Ethanol	: 64-17-5	> 70
Aqua	: 7732-18-5	< 30
Glycerine	: 56-81-5	< 5
QAC	: 7173-51-5	0,02 - 0,03

For detailed risk and safety phrases see Section 15 of this MSDS. Please note data are typical of the product and not a specification or a full composition. The risk profile may change if this product is mixed with other compounds or as a blend within other components.

3 Hazards Identification (Summary of Most Important Hazards)

Hazard category : Flammable III
Adverse human health effects : Irritating to eyes.
Environmental effects : Toxic to aquatic organisms
Physical hazards : Keep away from sources of ignition, smoking, combustible material. Handle open container with care
Chemical hazards : Flammable

4 First Aid Measures

Action to be avoided at all costs : Do not induce vomiting. If the material is swallowed, get medical attention or advice.

Inhalation : If symptoms are experienced, remove source of contamination or move victim to fresh air. If affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Skin contact : If irritation is experienced, flush with water. If irritation persists, get medical attention.

Eye contact : Flush with large amounts of water for 15 minutes, seek medical attention

Ingestion : Do not induce vomiting, drink large amounts of water, seek medical attention

Brief description of symptoms : Fumes may cause nausea and unconsciousness

Protection of first aiders : Wear protective clothing, avoid inhalation of fumes and skin or eye contact

Notes to the physician : Treat symptomatically as for Alcohol

5 Fire Fighting Measures

- Extinguishing media : Use methods appropriate for the surrounding fire. Consider water spray or fog, carbon dioxide, dry chemical powder, or alcohol resistant foam.
- Inappropriate extinguishing media : None known
- Specific hazards : Fumes may cause nausea and unconsciousness
- Specific methods of fire fighting : Prevent pressure build up or confinement
- Special equipment for protection : Wear self contained breathing apparatus (S.C.B.A)

6 Accidental Release Measures

- Personal precautions : Avoid eye contact. Do not ingest.
- Environmental precautions : Water contaminating. Do not allow product to enter soil, ground drains and waterways.
- Methods for cleaning up recovery : Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth.
- Neutralisation and disposal of : Absorb spills with absorbent, non-combustible matter and remove to waste disposal area.

7 Handling and Storage

Handling

- Prevention of user exposure : Do not ingest, do not inhale fumes avoid eye contact
- Prevention of fire and explosion : Keep away from sources of ignition and heat
- Precautions for safe handling : Keep away from oxidising agents and food stuffs
- Safe handling advice : Ensure container is not leaking and properly closed

Storage

- Storage conditions : Keep container tightly closed in a cool, dry, well ventilated area
- Separation from incompatible products : Oxidising agents
- Safe packaging material : Check containers regularly for leakage and possible distention
Material must be stored in accordance with local rules and legislation

8 Exposure Controls / Personal Protection

Control parameters

Limit values	: To be monitored at the work place
Biological standards	: Refer to UN and R-Phrase numbers
Monitoring procedures	: Provide exhaust ventilation, keep container closed when not in use
Personal protective equipment	: Refer to attached S-Phrases data
Respiratory protection	: Do not exceed inhalation of airborne fumes longer than 15 minutes at one given time period
Hand protection	: None Required
Eye protection	: Goggles
Skin and body protection	: None Required
Special precautions	: None Required
Personal hygiene measures	: Wash contaminated clothing before storage and re-use

9 Physical and Chemical Properties (All Units in SI System)

Physical State

Form	: Liquid
Colour	: Clear colourless liquid
Odour	: Slight Alcohol
pH value	: 6,5 - 7,5
Boiling point/boiling range °C	: (Ethyl Alcohol) 78.5°C
Change of physical state	: Not ascertained
Decomposition temperature	: Not ascertained
Flash point °C	: (Ethyl Alcohol) 12°C
Autoignition temperature	: (Ethyl Alcohol) 363°C
Explosion properties	: Not considered a product that has an explosion risk
Vapour pressure	: (Ethyl Alcohol) 1.6
Vapour density	:
Density	: Not applicable
Solubility	: Complete
Octanol/water partition coefficient	: (Ethyl Alcohol): - 0.32
Viscosity at 20°C	: Not ascertained
Specific gravity at 20°C	: 0,84 - 0,86
% Volatile by volume	: Not ascertained
Other	:

10 Stability and Reactivity

Stability	: Product is stable under normal ambient temperatures.
Possible hazardous reactions	: Hazardous polymerization will not occur.
Conditions to avoid	: Avoid excessive heat or sources of ignition.
Materials to avoid	: Reacts with oxidising agents and strong acids
Hazardous decomposition	: Upon decomposition, this product evolves carbon monoxide, carbon dioxide, and/or low weight hydrocarbons.

11 Toxicological Information (ORL-RAT LD50 7060mg 1kg (Ethanol))

Acute toxicity	: Swallowing can cause nausea, vomiting and loss of consciousness
Local effects	: Symptoms may arise if product is mishandled
Sensitization	: Causes severe eye irritation
Chronic toxicity	: Ethyl Alcohol (64-17-5) Carcinogenicity: ACGIH A4 – Not Classifiable as a Human Carcinogen Neurotoxicity: This product contains ethyl alcohol, a central nervous system target. Mutagenicity: No information available for product. Reproductive: No information available for product. Developmental: Ethyl alcohol is a developmental toxin when consumed during pregnancy. Target Organs: When consumed, ethyl alcohol can target the respiratory system, skin, eyes, CNS, liver, blood and reproductive system.
Long term toxicity	: Hazardous in case of continuous inhalation
Special effects	: None known
Results of data from scientific experiments and sources of information	: None known

12 Ecological Information:

Possible environmental effects	: Toxic to aquatic organisms
Behaviour and fate	: Avoid large product spillage from entering waterways
Persistence/Biodegradability	: Not established

13 Disposal Considerations

Disposal of chemical product (waste from residues)	: Suitable for burning in an enclosed controlled burner for fuel
Disposal of contaminated packaging:	: At any government approved waste disposal facility

14 Transport Regulations

Proper shipping name	: ETHYL ALCOHOL SOLUTIONS
UN classification number	: UN1170
Class	: III
Danger Group	: III
International regulation classifications	: IMDG-UN1170, Ethanol Solutions (Ethyl Alcohol Solution)
Emergency Schedules (EmS)	: Fire Schedule Echo (F-E) Spillage Schedule Delta (S-D) ICAO/IATA-DGR
Additional regulations	: None known
Precautionary transport measures and conditions	: As for handling chemicals

15 Regulatory Information

Regulations specifically applicable to the product	: None known
EEC hazard classification risk phrases	: R10, 22, 36, 37, 44, 51
Safety phrases	: S3, 15, 16, 17, 25, 29
National legislation	: Contact local authorities, refer to attached Risk and Safety Phrase Data
Hazard and safety information	: Take usual good care

16 Additional information (e.g. Special Training or Restrictions on the Products Use)

General info

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties

Personnel using this product must be trained and advised on the best, safest and most effective means of application.