

MATERIAL SAFETY DATA SHEET according 91/155/EE

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Product name : **INSTANT HAND SANITIZER**
Product code : 67401

Supplier : Vectair Systems Ltd
Address : Bilton Road, Kingsland Business Park, Basingstoke, Hampshire RG24 8LJ
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EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:
Vectair Systems Limited : +44-1256-319500

1.2 Use of Substance/Preparation

Disinfecting Agent

2. COMPOSITION / INFORMATION ON CONSTITUENTS

Alcoholic solution containing several additive components.
The product contains the following relevant components:
Ethanol (max. 70%)

CAS	EEC/ELINCS	Index No.	Warnings	R-Phrases
64-17-5	200-578-6	603-002-00-5	F	11
Carc	Muta	RF	RE	EEC Guidelines
-	-	-	-	-

3. HAZARD INFORMATION

Prolonged or repeated contact with the product may weakly irritate the skin and the eyes. Product vapours in high concentration may irritate the respiratory system.

The product is flammable and volatile. The product may form flammable/explosive vapour-air mixtures.

Exothermic reactions may occur on contact with certain chemicals (refer to the list of incompatible materials in Section 10: (Stability-Reactivity))

The product presents no particular risk to the environment, provided the disposal requirements (see section 13) and national or local regulations are complied with.

4. FIRST AID MEASURES

General Instructions: Measures to be taken following inhalation should preferably be provided by an expert only.

Eye Contact: After separating the eyelids immediately flush eyes thoroughly and lasting with plenty of water. In case eye irritation persists, consult and Oculist.

Skin Contact: Take off polluted clothing and shoes. Wash affected skin thoroughly and lasting with plenty of water.

Ingestion: In case affected person is fully conscious, rinse out the mouth with plenty of water and administer 2 glasses of water. Guide affected person to medical treatment or call for medical assistance. Hand out to the physician the container label or this safety data sheet.

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4. FIRST AID MEASURES - Continued

Inhalation: Guide affected person to fresh air. Give oxygen if breathing is difficult.
Guide affected person to medical treatment or call for medical assistance.

Notes to the Physician: There is no specific information available about the product. Treat affected person according to symptoms developing.

5. FIRE FIGHTING METHODS

Suitable Extinguishing Media: Carbon Dioxide, powder and foam extinguisher (alcohol-resistant). Water spray.

Not to be used for Safety reasons: Water Jet

Specific Exposure Hazards Arising from Substance or its Combustion Products The product is flammable and volatile. Formation of carbon monoxide and carbon dioxide during the combustion of the product. During the thermal decomposition/combustion of the product toxic and irritating vapours/gases are released. Heating will cause a pressure rise in closed drums – risk of bursting and explosion.

Specific Protective Equipment and Measures required for Fire-Fighting Cool containers exposed to the fire with water spray. In case of a fire wear a self-containing breathing apparatus and OSHA/MSHA-approved clothing. Collect contaminated extinguishing-water if any possible and dispose of. (See also Section 13).

6. ACCIDENTAL RELEASE MEASURES

Take up undamaged small containers (tins, tubes, cartridges) and store in a secure place. In case large amounts of product is spilled caused by damaged small containers, wear protective clothing (see Section 8). Close all drains. Ventilate dangerous area by mechanical means. Remove all sources of heat and ignition. Turn leaking containers leak-side up to prevent any further escape of liquid. Dike spilled liquid using dry inert materials like sand or soil. Only use explosion proofed tools resistant to organic solvents. Observing the relevant guidelines of safety mob up large amounts of liquid into labelled and resistant containers. Cover liquid residues using an inert chemical binder and take up spill into labelled and resistant containers. Finally dispose of products as pointed out in Section 13 Thoroughly wash ground using plenty of water.

7. HANDLING & STORAGE

Handling: Use product only in well ventilated areas/workplaces. Do not handle product in direct neighbourhood of sparks, sources of heat and hot surfaces. Comply with the instructions (refer to technical sheet). Provide eyewash fountains at the working place. Do not smoke at the working place.

Storage: Store product only in tightly closed original containers in a cool and dry place protected from any sources of heat and ignition. Take all precautionary storage measures to avoid effectively any contamination of drains or water circuits in case of an accidental spill of the product. Do not store product close to incompatible substances (see Section 10). Take suitable precautionary measures against static discharges. Do not breathe product vapours during refilling processes and avoid spills and splashes. Respect the national guidelines for the storage of water-hazardous products. Respect the national guidelines for the storage of hazardous products.

Specific Uses: No data available – refer to technical data sheet.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with an Exposure Limitation

Origin	ml/m ³	mg/m ³	Cat.	Refer to Notes
-	-	-	-	-

Exposure limits of components as listed in Section 2

CAS	Origin	ml/m ³	mg/m ³	Cat.	Refer to Notes
64-17-5	MAK	500	960	4	

Environmental Exposure Controls

No data available

Respect the general regulations of industrial working hygiene as stated by the responsible professional association. Do not breathe product vapours. Do not eat, drink or smoke at the working place. Take off polluted clothing and thoroughly clean before reuse. Separate work clothing from casual dress.

Respiratory: Respiratory protective device EN 3181 with gas filter and cartridge A3 in case the official limits for airborne concentrations are exceeded. Respect the national time-limitations for the use of respiratory protective devices.

Eye: Protective goggles with side-protection.

Hand: Would not be very helpful.

Body: Impervious working clothes

9. PHYSICAL & CHEMICAL PROPERTIES

State	At 20° C : liquid	Colour	Colourless to pale yellow
Odour	Characteristic		
Siedepunkt	Approx 80°C Ethanol		
Density	25°C approx. 0.93-0.95 g/cm ³		
Bulk Density	20°C not applicable kg/m ³		
Vapour Pressure	20°C 59 hPa ethanol		
Viscosity	20°C no data available		
Water Solubility	25°C soluble g/l		
Fat Solubility	Partly soluble in the commonly used organic solvents		
pH-Value	20°C no data available	(at g/l H ₂ O)	
Flashpoint	In closed cup >21°C		
Auto flammability	425°C ethanol		
Exposure Limits	Lower: 3.5 Vol%	Upper 15 Vol%	Ethanol
Partition	This product is a non-oxidizing material according to the actual EEC criteria.		
Coefficient n-Octanol/Water [log Pow]	No data available		
Further Data	VOC-Share: max70%		

10. STABILITY & REACTIVITY

Conditions to Avoid: Strong thermal influence (decomposition). The product is stable at ambient temperatures and if used according to given applications.

Products to Avoid: Caustic (alkaline) substances, strong oxidizers and reducing agents (reaction).

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10. STABILITY & REACTIVITY – (Cont'd)

Hazardous Decomposition

Products: Formation of carbon monoxide and carbon dioxide during the combustion of the product. During the thermal decomposition of the product toxic and irritating vapours/gases are released.

11. TOXICOLOGICAL INFORMATION

When respecting the general instructions of good occupational hygiene the handling of the product does not imply a particular acute toxicological hazard. The single components of the formulation imply only a very low toxicological potential by oral and dermal route. The product is weakly irritating to the eyes. Product vapours in high concentration may irritate the respiratory system. Symptoms after a concentrated exposition are watering of the eyes, nausea, vomiting, difficulties in breathing, dry skin, dizziness, drowsiness, troubles with co-ordination. (Lit.1)

Ethanal:

LD(50)oral/rat 7060 mg/kg

LC(50)inhalation/rat 20000 ppm/10h

LD(Lo)dermal/rabbit 20000 mg/kg

(Lit2)

12. ECOLOGICAL INFORMATION

The product contains approx. 70% volatile components.

Environmental compartment for the ultimate destination of the product: Soil, Air. If used properly according to its applications the product does not cause any problems in biological purification plants (Lit.1).

Do not release the product in the environment. Decant polluted waste water before its release into the drains.

13. DISPOSAL CONSIDERATIONS

Disposal in compliance with official regulations.

14. TRANSPORT INFORMATION

14.1 Land Transport (ADR/GGVS, RID/GGVE)

UN-No: 1170

RID/ADR 3

Pack-Group III

Danger Code 30

Label 3

Limited Quantity LQ7

Shipping Name: Ethanol, solution

Hazard caused by:

14.2 Marine Transport (IMDG)

UN-No: 1170

IMO/IMDG-Class 3

Limited Quantity 5 L

EMS-No. F-E, S-D

MFAG-No: 305

MarPol:

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ADNR 3
Pack Group III
Label –
Shipping Name: Ethanol, solution
Hazard caused by:

14.3 Air Transport (ICAO/IATA)

UN-No: 1170
ICAO/IATA – Class 3
Limited Quantity 10 L
Label: Flammable Liquid
Pack Group III
Passenger Aircraft/Quantity: 60 L
Cargo Aircraft/Quantity: 220 L
Shipping Name: Ethanol solution
Hazard caused by:

15. REGULATORY INFORMATION

15.1 Labelling According to EC-Guidelines

Symbol Of Danger



Extremely flammable

Contains Ethanol
R-Phrases :
R10 Flammable
R11 Highly Flammable

S-Phrases:
S2 : Keep out of reach of children
S7 : Keep container tightly closed.
S16 : Keep away from sources of ignition – No smoking

Product Classification : Water-Hazard Classification: WGK 1 (Lit 1)

16. ADDITIONAL INFORMATION

References:
[Lit.1] Unpublished producer results.

New MSDS