



# Nanoxx Alcohol Hand Sanitiser Safety data sheet

According to Regulation (EC) No. 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

<b>SECTION 1: Identification of the substance/mixture and of the company undertaking</b>	
<b>1.1. Product Identifier</b>	
Trade name	Nanoxx Antimicrobial Alcohol Hand Gel
Product form	Gel Mixture
Product code	-
Product type	Biocide
<b>1.2. Relevant identified uses of the substance or mixture and uses advised against</b>	
Intended use	Hand sanitizer gel
<b>1.3. Details of the Manufacturer of the safety data sheet</b>	
Production company	SHIMYATECH LTD
Address	131 Mount Pleasant Liverpool Science Park IC1 Liverpool L3 5TF
Telephone	(+44) 07891 062644
Email	<a href="mailto:Info@shimyatech.com">Info@shimyatech.com</a>
<b>1.4. Emergency telephone number</b>	
Emergency telephone number	(+44) 07891062644

<b>SECTION 2: Hazards Identification</b>	
<b>2.1. Classification of the substance or mixture</b>	
Classification under CLP	Flam. Liq. 2 H225: Highly flammable liquid and vapour Eye Irrit. 2 H319: Causes serious eye irritation.
<b>2.2. Label elements</b>	
Hazard statements	H225: Highly flammable liquid and vapour H319: Causes serious eye irritation EUH208: Contains perfume, May produce allergic reaction
Signal Words	Danger, Flammable
Hazard pictograms	GHS02  GHS07 
Precautionary statements	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/attention. P403+P235: Store in a well-ventilated place. Keep

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	cool. P501: Dispose of contents in accordance with local, state or national legislation. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
<b>2.3. Other hazards</b>	
Other hazards	This product is not identified as a PBT/vPvB substance

<b>SECTION 3: Composition/information on ingredients</b>				
3.2 Mixtures				
Hazardous Ingredients	CAS No	EC No./ Reach Registration No.	%W/W	Hazard statements
Ethanol	64-17-5	200-578-6	70	H225: Flam. Liq 2 H319: Eye Irrit. 2

See section 16 for full text of hazard statements

<b>SECTION 4: First aid measures</b>	
4.1 Description of first aid measures	
Skin contact	Do not use on broken or irritated skin. If prolonged contact occurs, rinse thoroughly with water.
Eye contact	Bathe the eye with running water for 15 minutes. If easy to do, remove contact lens, if worn. IF symptoms occur Get medical attention
Ingestion	Wash out mouth with water. Get medical attention if symptoms occur.
Inhalation	Move to fresh air in case of accidental inhalation of vapours. Get medical attention if symptoms occur.
4.2 Most important symptoms and effects, both acute and delayed	
Skin contact	There may be mild irritation at the site of contact.
Eye contact	There may be irritation and redness
Ingestion	There may be confusion, aggressive behaviour, slurred speech and staggering walk.
Inhalation	Drowsiness or mental confusion may occur
Delayed / immediate effects	Immediate effects can be expected after short-term exposure.
4.3 Indication of any immediate medical attention and special treatment needed	
Treat symptomatically	

<b>SECTION 5: Firefighting measures</b>	
5.1 Extinguishing media	
Suitable Extinguishing media	Use water spray, dry powder or carbon dioxide to extinguish
Unsuitable extinguishing media	Water jet spray
5.2 Special hazards arising from the substance or mixture	

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Special Hazards	Highly flammable liquid and vapour. May decompose in a fire, giving off toxic and irritant vapours.
<b>5.3 Advice for firefighters</b>	
Advice	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.
Special protective equipment for firefighters	Use air-supplied respirator, gloves and protective goggles. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with eyes and prolonged skin contact. Adequate ventilation. Non sparking ventilation systems. Approved explosive proof equipment. Intrinsically safe electrical systems.

#### 6.2 Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. This material and its container must be disposed of safely

#### 6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Containers must not be punctured or destroyed by burning, even when empty.

#### 6.4 Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting/equipment. Use non-sparking tools. Take action to prevent static discharges. Wear eye protection.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep cool

#### 7.3 Specific end use(s)

Industrial use. Professional use. SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen). Consumer use. PC8 Biocidal products (e.g. Disinfectants, pest control). PC35 Washing and cleaning products (including solvent based products).

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### 8.1.1. Occupational exposure limits

#### ETHANOL

Substance	CAS No.	LTEL (8hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )

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Ethanol	64-17-5	1000	1920
8.1.2 Derived No Effect Levels (DNEL)			
<b>ETHANOL</b>			
<b>Route of exposure</b>	<b>Chronic effects systemic</b>	<b>Chronic effects local</b>	<b>Acute effects systemic</b>
Inhalation	950 (mg/m <sup>3</sup> )	No hazard identified	No hazard identified
Dermal	343 (mg/kg or bw/day)	No hazard identified	No hazard identified
Oral	87 (mg/kg or bw/day)	No hazard identified	No hazard identified
8.1.3 Predicted no-effect concentrations			
<b>ETHANOL</b>			
Environmental protection target		PNEC	
Fresh water		0.96 mg/l	
Freshwater sediments		3.6 mg/kg sediment dw	
Marine water		0.79 mg/l	
Marine water sediments		2.9 mg/kg sediment dw	
Microorganisms in sewage treatment (STP)		580 mg/l	
Soil		0.63 mg/kg soil dw	
PNEC oral, (food chain)		720 mg/kg food	
8.2 Exposure controls			
8.2.1 Appropriate engineering controls			
Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.			
8.2.1 Personal protective equipment			
Eye protection	Wear eye protection with side protection (EN166)		
Skin protection	Gloves: Not normally required		
Respiratory protection	Normally no personal respiratory protection is necessary		
Thermal hazards	None known		
8.2.3 Environmental exposure controls			
Avoid release to the environment			

<b>SECTION 9: Physical and Chemical properties</b>	
9.1 Information on basic physical and chemical properties	
Appearance	Liquid/gel. Colourless liquid.
Odour	Alcohol odour
Odour threshold	No data available
pH	Not known
Melting point/Freezing point	-114°C (Ethanol)
Initial boiling point and boiling range	78.5 °C (Ethanol)
Flash point	13 °C (Ethanol)
Evaporation rate	No data available
Flammability (solid, gas)	Not known
Upper/lower flammability or explosive limits	3.3-19 (ethanol)

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Vapour pressure	57.26 hPa @ 19.6 °C (ethanol)
Vapour Density	>1
Density (g/ml)	No data available
Relative density	No data available
Solubilities	Solubility (Water) : Soluble Solubility (Other) : Not known
Partition coefficient: n-octanol/water	-0.35 @ 24 °C (Ethanol)
Auto-ignition temperature	368.8 °C (Ethanol)
Decomposition Temperature (°C)	No data available
Viscosity	No data available
Explosive Properties	Not explosive
Oxidising properties	Not oxidising
Other information	None

<b>SECTION 10: Stability and reactivity</b>
10.1 Reactivity
Stable under recommended transport or storage conditions
10.2 Chemical stability
Stable under normal conditions
10.3 Possibility of hazardous reactions
Hazardous reactions will not occur under normal transport or storage conditions
10.4 Conditions to avoid
Heat. Flames. Sources of ignition
10.5 Incompatible materials
Strong oxidizing agents
10.6 Hazardous decomposition products
In combustion emits toxic fumes of carbon dioxide/carbon monoxide

<b>SECTION 11: Toxicological information</b>	
11.1 Information on toxicological effects	
Acute toxicity - Ingestion	Not classified. Based on available data, the classification criteria are not met. ATE > 5000 mg/kg
Acute toxicity – Skin Contact	Not classified. Based on available data, the classification criteria are not met
Acute toxicity – Inhalation	Not classified. Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Not classified. Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Calculation method: Causes serious eye irritation.
Skin Sensitization data	Not classified. Based on available data, the classification criteria are not met
Respiratory sensitization data	Not classified. Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Not classified. Based on available data, the classification criteria are not met.

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Carcinogenicity	Not classified. Based on available data, the classification criteria are not met.
Reproductive toxicity	Not classified. Based on available data, the classification criteria are not met.
Lactation	Not classified.
STOT – single exposure	Not classified. Based on available data, the classification criteria are not met
STOT – repeated exposure	Not classified. Based on available data, the classification criteria are not met.
Aspiration hazard	Self classification: Not classified. Based on available data, the classification criteria are not met.
11.1 Information on toxicological effects	
None	

<b>SECTION 12: Ecological information</b>	
12.1 Toxicity	
Toxicity	Not classified. Based on available data, the classification criteria are not met
Toxicity – Aquatic invertebrates	EC50: 5 012 mg/L
Toxicity – Fish	LC50: 14 200 mg/L
Toxicity – Algae	Low toxicity to algae.
12.2 Persistence and Degradation	
Readily biodegradable.	
12.3 Bioaccumulative potential	
The product has low potential for bioaccumulation. Partition coefficient: n-octanol/water: -0.35 @ 24 °C	
12.4 Mobility in soil	
Soluble in water. Highly volatile.	
12.5 Result of PBT and vPvB assessment	
Not classified as PBT or vPvB	
12.6 Other adverse effects	
Not known	

<b>SECTION 13: Disposal considerations</b>	
13.1 Waste treatment methods	
Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Do not allow to enter drains, sewers or watercourses. Do NOT landfill. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Dispose at suitable refuse site.	
13.2 Waste treatment methods	
Disposal should be in accordance with local, state or national legislation.	


<b>SECTION 14: Transport information</b>	
14.1 UN number	
UN No.	1170
14.2 UN Proper shipping name	

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UN proper shipping name	Ethanol solution (Ethyl alcohol solution)
14.3 Transport hazard class	
Transport class	3
14.4 Packing group	
Packing group	II
14.5 Environmental hazards	
Environmentally hazardous	Not classified as Marine pollutant
14.6 Special precautions for user	
ADR transport category	2
Tunnel Restriction Code	D/E
Emergency Action Code	-2YE
IMDG EMS	F-E, S-D
14.7 Transport in bulk according to Annex II of Marpol and the IBC code	
No information available	

<b>SECTION 15: Regulatory information</b>	
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
The product has been classified in accordance with Regulation (EC) No. 1272/2008 (CLP). This SDS was prepared in accordance with Regulation (EC) No. 1907/2006 as amended. Biocidal Products Regulation (BPR): Regulation (EU) No. 528/2012	
Candidate List of Substances of Very High Concern for Authorisation	Not listed
REACH: ANNEX XIV list of substances subject to authorisation	Not listed
REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Ethanol (64-17-5)
Community Rolling Action Plan (CoRAP)	Not listed
Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants	Not listed
Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer	Not listed
Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals	Not listed
National regulations	Not known
15.2 Chemical Safety Assessment	
A REACH chemical safety assessment has not been carried out.	

<b>SECTION 16: Other information</b>	
Hazard pictograms	<p>GHS02</p> <div style="text-align: center;">  </div> <p>GHS07</p>

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Hazard classification	Flam. Liq. 2 : Flammable liquid, Category 2 Eye Irrit. 2 : Serious eye damage/irritation, Category 2
Hazard Statement(s)	H225: Highly flammable liquid and vapour. H319: Causes serious eye irritation.
Precautionary Statement(s)	<p>P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P233: Keep container tightly closed.</p> <p>P240: Ground and bond container and receiving equipment.</p> <p>P241: Use explosion-proof electrical/ventilating/lighting/equipment.</p> <p>P242: Use non-sparking tools.</p> <p>P243: Take action to prevent static discharges.</p> <p>P264: Wash hands and exposed skin thoroughly after handling.</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</p> <p>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337+P313: If eye irritation persists: Get medical advice/attention.</p> <p>P370+P378: In case of fire: Use water spray, dry powder or carbon dioxide to extinguish.</p> <p>P403+P235: Store in a well-ventilated place. Keep cool.</p> <p>P501: Dispose of contents in accordance with local, state or national legislation</p>
Acronyms	<p>ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways</p> <p>ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road</p> <p>CAS : Chemical Abstracts Service</p> <p>CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures</p> <p>DNEL : Derived No Effect Level EC : European Community</p> <p>EINECS : European Inventory of Existing Commercial Chemical Substances</p> <p>IATA : International Air Transport Association</p> <p>IBC : Intermediate Bulk Container</p> <p>ICAO : International Civil Aviation Organization</p> <p>IMDG : International Maritime Dangerous Goods</p> <p>LTEL : Long term exposure limit</p> <p>PBT : Persistent, Bioaccumulative and Toxic</p> <p>PNEC : Predicted No Effect Concentration</p>



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	REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals RID : Regulations concerning the International Carriage of Dangerous Goods by Rail STEL : Short term exposure limit STOT : Specific Target Organ Toxicity UN : United Nations vPvB : very Persistent and very Bioaccumulative
Key Literature and Sources of Data	ECHA REACH Dossier Regulation (EC) No. 1272/2008 (CLP) Regulation (EC) No. 1907/2006 (REACH) Regulation (EU) No. 2015/830
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