

**SAFETY DATA SHEET****Zwype Non-Alcohol Hand Sanitiser**

According to Regulation (EC) No 1907/2006, Annex II, as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name Zwype Non-Alcohol Hand Sanitiser
Product code WYH-600; WYH-05

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Hand Sanitizer. This is a hand sanitiser product for industrial/professional users. While the product is not classified hazardous to health, this SDS contains valuable information for safe handling and any large spills and exposures.

Uses advised against Use only for intended applications.
Not for direct contact with Food or Beverage stuffs. Not for oral consumption.

1.3. Details of the supplier of the safety data sheet

Supplier BioBax Ltd
Technology Park,
Standback Way,
Skelmanthorpe,
West Yorkshire
HD8 9GA
UK
Telephone Number: +44 (0) 1484 868970
Email: safety@biobax.co.uk

Manufacturer Same as supplier

1.4. Emergency telephone number

Emergency telephone Biobax Ltd: +44 (0) 1484 868 970 (office hours only)

National emergency telephone number 999 / 112

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification (EC 1272/2008)**

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Aquatic Chronic 3 - H412

Environmental Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard statements	H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P273 Avoid release to the environment. P501 Dispose of contents/ container in accordance with national regulations.
Biocide Labelling	Contains active substance: Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-16)) CAS No 68424-85-1, 0.8g/100g Contains active substance: Didecyldimethylammonium chloride (DDAC) CAS 7173-51-5, 0.4g/100g.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides CAS number: 68424-85-1 EC number: 270-325-2 M factor (Acute) = 10 M factor (Chronic) = 1	<1%
Classification Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	
didecyldimethylammonium chloride CAS number: 7173-51-5 EC number: 230-525-2 M factor (Acute) = 10	<1%
Classification Acute Tox. 3 - H301 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411	
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides CAS number: 308062-28-4 EC number: 931-292-6 M factor (Acute) = 1	<1%
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures**

Inhalation	Move affected person to fresh air at once. If breathing stops, provide artificial respiration. Get medical attention if any discomfort continues. If in doubt, get medical attention promptly.
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Ingestion	If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Do not induce vomiting unless under the direction of medical personnel. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues. Never give anything by mouth to an unconscious person.
Skin contact	Not relevant.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Vapour may irritate respiratory system/lungs. Coughing. Headache. Irritation of nose, throat and airway.
Ingestion	Gastrointestinal symptoms, including upset stomach. Nausea, vomiting. Diarrhoea.
Skin contact	May cause irritation.
Eye contact	Prolonged contact may cause redness and/or tearing. Visual disturbances, including blurred vision..

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations. Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	None known.

5.2. Special hazards arising from the substance or mixture

Specific hazards	No unusual fire or explosion hazards noted. Vapours may form explosive mixtures with air.
Hazardous combustion Products	Thermal decomposition or combustion products may include the following substances Carbon monoxide (CO). Carbon dioxide (CO ₂). Ammonia or amines

5.3. Advice for fire-fighters

Protective actions during firefighting	Vapours may form explosive mixtures with air. Containers close to fire should be removed or cooled with water. Control run-off water by containing and keeping it out of sewers and watercourses. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate for 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 breathing gas, fume, vapours or spray. Provide adequate ventilation.
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6.2. Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses. Large Spillages: Use appropriate containment to avoid environmental contamination.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Large Spillages: Provide adequate ventilation. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb in vermiculite, dry sand or earth and place into containers. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Flush contaminated area with plenty of water. Small Spillages: Clear up spills immediately and dispose of waste safely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Take care as floors and other surfaces may become slippery.

Precautionary measures to prevent the occurrence of secondary hazards Vapours may accumulate on the floor and in low-lying areas. Vapours may form explosive mixtures with air. Avoid heat, flames and other sources of ignition.

6.4. Reference to other sections

Reference to other sections For waste disposal, see Section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Usage precautions: Do not swallow this product. Avoid contact with eyes. Avoid inhalation of vapours and spray/mists. For personal protection, see Section 8.

Advice on general occupational hygiene No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from freezing and direct sunlight

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection**8.1. Control parameters**

Ingredient comments No exposure limits known for ingredient(s).

8.2. Exposure controls

Appropriate engineering controls Good general ventilation should be adequate to control worker exposure to airborne contaminants.

Eye/face protection No specific eye protection required during normal use. If large quantities are involved: The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection Large Spillages: It is recommended that chemical-resistant, impervious gloves are worn. The most suitable glove should be chosen in consultation with the glove supplier/manufacture, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body Protection Large Spillages: Wear anti-static protective clothing if there is a risk of ignition from static electricity

Hygiene measures	Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. Do not smoke in work area.
Respiratory protection	No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Colourless
Odour	Slight.
Odour threshold	No information available.
pH	pH (concentrated solution): 7
Melting point	Not applicable.
Initial boiling point and range	>100°C
Flash point	Not applicable.
Evaporation rate	No information available.
Evaporation factor	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	No information available.
Vapour density	Not available.
Relative density	~ 1 @ 20°C.
Bulk density	Not applicable.
Solubility(ies)	Completely soluble in water.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.
Oxidising properties	Not applicable.
Comments	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

9.2. Other information

Volatile organic compound	This product contains a maximum VOC content of 0 g/litre.
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SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable under normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No potentially hazardous reactions known

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time. Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong alkalis. Strong oxidising agents. Strong reducing agents. Peroxides. Hydrocarbons - halogenated. Alkali metals. Amines. Chlorine. Aldehydes.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO₂). Ammonia or amines

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity - oral**

Notes (oral LD₅₀) Based on available data the classification criteria are not met.
ATE oral (mg/kg) 59,500.0

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity – inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Inhalation

Spray/mists may cause respiratory tract irritation. Heating may generate the following products: Irritating gases or vapours.

Ingestion

May cause discomfort if swallowed. Stomach pain. Nausea, vomiting. Diarrhoea.

Skin contact

No adverse effects known. If irritation occurs discontinue use. Get medical attention if any discomfort continues.

Eye contact

May irritate eyes. Prolonged contact may cause redness and/or tearing. Visual disturbances, including blurred vision.

Route of exposure

Skin and/or eye contact Inhalation Ingestion

SECTION 12: Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

12.1. Toxicity**Acute aquatic toxicity**

Acute toxicity - fish Not known.

Acute toxicity – aquatic invertebrates Not known.

Acute toxicity - aquatic plants Not known.

12.2. Persistence and degradability

Persistence and degradability Expected to be readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

12.4. Mobility in soil

Mobility The product is water-soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB

12.6. Other adverse effects

Other adverse effects Not known.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

General information When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Dispose of contents/container in accordance with local regulations. Larger quantities should be treated in a suitable plant or disposed of via a licensed waste disposal contractor.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

No transport warning sign required

14.4. Packing group

Not applicable

14.5. Environmental hazards**Environmentally hazardous substance/Marine pollutant:**

No

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Biocidal Product Regulation (BPR) No 528/2012

Guidance

Workplace Exposure Limits EH40.

Health and environmental listings

The active biocidal substance contained in this mixture is in the review program for this use, the transitional measures therefore apply

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information**Abbreviations and acronyms used in the safety data sheet**

CAS: Chemical Abstracts Service

PBT: Persistent, Bioaccumulative and Toxic substance.

vPvB: Very Persistent and Very Bioaccumulative.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

ATE: Acute Toxicity Estimate.

LC₅₀: Lethal Concentration to 50 % of a test population.LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).EC₅₀: 50% of maximal Effective Concentration.

IMDG: International Maritime Dangerous Goods.

IATA: International Air Transport Association.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

UN: United Nations.

MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.

IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code).

GHS: Globally Harmonized System.

NPIS - National Poisons Information Service.

Classification abbreviations and acronyms	Acute Tox. = Acute toxicity Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic) Eye Dam. = Serious eye damage Eye Irrit. = Eye irritation Skin Irrit. = Skin irritation Skin Corr. = Skin corrosion
Key literature references and sources for data	Material Safety Data Sheet, Misc. manufacturers. Source: European Chemicals Agency, http://echa.europa.eu/
Classification procedures according to Regulation (EC) 1272/2008	Calculation method.
Revision comments	This is the first issue.
Revision date	02/02/2021
Revision	0.0
SDS number	23335
Hazard statements in full	H301 Toxic if swallowed. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

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