

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

	ALCOHOL FREE DISINFECTANT Disinfectant
	1.00

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

Manufacturer's Name	GMT SIA
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Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Ready-to-use, mechanical disinfectant for . For non-professional and professional use in household, medical, healthcare and other effective hands and surfaces.
and skin protection against bacteria, viruses, fungi and algae.
(Group 1: Disinfectants: Product type 1 - Human hygiene products and 2 - Disinfectants and algacides not intended for direct application to humans or animals)

2 : Hazards Identification**Classification of the substance or mixture**

Classification according to Directive 67/548/EEC or 1999/45/EC	This disinfectant product is not classified as hazardous according to Directive 1999/45/EC.
Classification according to Regulation (EC) No. 1272/2008 [CLP]	This disinfectant product is not classified as hazardous according to Regulation (EC) No. 1272/2008.
Classification under CLP:	Aquatic Chronic 3; H412.
Physical and chemical danger:	Mixture did not meet the classification criteria
Health effects	Mixture did not meet the classification criteria
Environmental effects:	Toxic to aquatic life with long lasting effects.

Label elements

GHS pictograms:	
Signal word:	Not required
Hazard statements:	H412 Toxic to aquatic life with long lasting effects.
Additional hazards designations:	None
Precautionary statements:	General: None.
Prevention:	P273 Avoid release to the environment
Reaction:	None
Storage:	None
Disposal:	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
Substance identity:	Not applicable
Additional labeling:	Active substance: Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides(CAS No: 68424-85-1): 0.4 g / 100 g (0.4% w / w)
Inaccessible to children fasteners:	Not needed
Warning signs:	Not needed

Other hazards

PBT or vPvB criteria:	The mixture does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006.
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MSDS - ALCOHOL FREE DISINFECTANT

	1907/2006. Regulation (EC) No. Regulation (EC) No 1907/2006 as amended. Article 2 Annex XIII to Regulation (EC) No 1907/2006.
Other dangers:	Not expected
3 : Composition/Information on Ingredients	
Mixtures	INGREDIENTS : Deionized Aqua, Glycerine, Alkylbenzyltrimethylammonium chloride, Tetrasodium Glutamate Diacetate ,
Chemical characterization	Neutral, ready to use disinfectant, aqueous solution. Declaration of ingredients according to Regulation (EC) No. 1272/2008:
Chemical name	QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES
EINECS	270-325-2
CAS number	68424-85-1
CLP Classification	Acute Tox. 4 Skin Corr. 1B Aquatic Acute 1 Aquatic Chronic 1 Piegādātāja dati H302 H314 H400 * H410 **
Percent	~0.4 %
The mixture contains 99.6% water and the formula does not contain alcohol. See Section 16 for the full text of the hazard classes and categories, as well as the codes for the hazard statements.	M-factor: * acute = 10; ** chronically = 1 (for additional information see section 16). [1] Substances classified as hazardous to health or the environment

4 : First Aid Measures

4.1. Description of first aid measures:

Inhalation	If respiratory irritation occurs, remove individual to fresh air.
Skin contact	The product is intended for dermal application. Discontinue use of product. Apply cold compresses to affected areas to relieve any discomfort. If discomfort persists, contact a physician.
Eye contact	Bathe the eye with running water for 15 minutes.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Call a physician immediately

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

Inhalation	There may be mild irritation at the site of contact.
Skin contact	There may be mild irritation at the site of contact.
Eye contact	There may be irritation and redness.
Ingestion	There may be irritation of the throat.

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

Information for doctor:	Exposure to the product should be evaluated as neutral. Respond to the condition and symptoms of the victim.
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5. Fire-fighting measures	
5.1. Extinguishing media	
Suitable for fire fighting means:	Does not apply to the product - it is non-flammable. Use surrounding materials and use them properly.
Ineligible extinguishing agents:	Not applicable. Do not use any materials unsuitable for surrounding combustible materials.
5.2. Special hazards arising from the substance or mixture	
Mixture caused danger:	The product is non-flammable.
Danger of burns products:	Under fire conditions, may be liberated after evaporation of the water in the mixture corrosive fumes
5.3. Advice for fire-fighters	
Special fire fighting methods:	Not applicable.
Remedies for firefighters:	Not applicable. Use measures to prevent the spread of flammable materials.
6. Accidental release measures	
6.1. Personal precautions, protective equipment and emergency procedures	
For persons who are not trained emergency situations:	No action shall be taken involving any personal risk or without suitable training.
Emergency assistance for providers:	Use safety glasses or safety goggles if splash hazards exist; use gloves and other protective clothing (apron, boots, etc) to prevent skin contact.
6.2. Environmental precautions	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3. Methods and material for containment and cleaning up	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
6.4. Reference to other sections	Refer to section 8 and 13 of SDS.

7. Handling and storage	
7.1. Precautions for safe handling	Use only in accordance with instructions for use. Spray gently on hands, Avoid contact with eyes. Fire and explosion hazard: No indication available
7.2. Conditions for safe storage, including any incompatibilities	Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials. Keep out of the reach of children.
7.3. Specific end use(s)	Hand disinfectant. For non-professional and professional use. See also section 1.

8. Exposure controls/personal protection	
8.1. Control parameters	
Workplace exposure limits:	No data available.
Biological limit values:	No data available.
DNEL Values	QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16*ALKYLDIMETHYL, CHLORIDES*
Subjects- Exposure type- Health-effects Value	Workers Through Skin Long-term Exposure - systemic effects

	5.7 mg / kg body weight day
	Workers Inhalation Long-term Exposure - systemic effects 3.96 mg / m ³
	Dermal Dermal Effects - systemic effects 3.4 mg / kg body weight day
	Inhalation Long-term Exposure - systemic effects 1.64 mg / m ³
	Population Oral Long term exposure - systemic effects 3.4 mg / kg body weight
PNEC Values	QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES*
Environment Sector- Value	Water (fresh water) 0.0009 mg / l
	Water (sea water) 0.00096 mg / l
	Water, open ocean (sea water) 0.0096 mg / l
	Precipitate (fresh water) 12.27 mg / kg
	Precipitation (sea water) 13.09 mg / l
	Waste water treatment plant (STP) 0.4 mg / l
	Water (irregular emissions) 0.00016 mg / l
	Soil 7 mg / kg
	* Basic component (up to 80 - 90%) of the active ingredient of the mixture (CAS No: 68424-85-1).
8.2. Exposure controls	
Adequate technical management:	No special measures are required. It is recommended that eyewash stations or running water are available at the workplace.
Personal protective equipment:	
Eye / face protection:	Avoid contact with eyes.
Skin protection:	
Hand protection:	Not required - the product is intended for skin application.
Body protection:	Not required.
Respiratory protection:	Not required. Avoid breathing spray.
General Hygiene Considerations:	General hygiene measures for handling chemicals should be observed
Environmental Risk Management:	Prevent undiluted product from entering drains (PNEC: 0.4 mg / l active substances).

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties	
Appearance:	
Physical state:	Liquid
Color:	Practically colorless, clear
Odor:	No odor
Odor threshold:	Not applicable
pH	~7
Melting point / freezing point:	~ As for water
Boiling point and boiling points range:	~ Like water
Flash point:	Not applicable
Evaporation rate:	As with water

MSDS - ALCOHOL FREE DISINFECTANT

Flammability (solid, gas):	Not applicable
High / low flammability or explosion limits:	Not applicable
Vapor pressure:	As for water
Vapor Density:	As for water
Density:	~ 1.0 g / cm ³ (20 ° C)
Solubility:	Fully miscible with water in all conditions
Partition coefficient:	n-octanol / water: No data available.
Decomposition temperature:	> 150 ° C (active substance, after evaporation of water)
Viscosity:	~ Like water
Explosive properties:	Not explosive
Oxidizing properties:	Not oxidizing
9.2. Other information:	No data available

10 : Stability and Reactivity

10.1. Reactivity	Stable under normal conditions. Does not decompose or form hazardous substances.
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	Heating above +30 ° C or freezing.
10.5. Incompatible materials	None under normal storage and use conditions.
10.6. Hazardous decomposition products	Under normal conditions of storage and use, hazardous reaction will not occur. In combustion emits toxic fumes.

11. Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity:	The mixture does not meet the criteria for classification.
Ingredients:	
Substance, CAS No./ Mode of action, animal /Dose	
QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES (CAS Nr.: 68424-85-1)	LD50, oral, rat (344 mg / kg) LD50, dermal, rabbit (3340 mg / kg)
Serious eye damage/eye irritation	The mixture does not meet the criteria for classification.
Skin Corrosion/irritation	The mixture does not meet the criteria for classification.
Respiratory irritation	The mixture does not contain ingredients classified as sensitizing. No sensitizing effect known.
Repeated doses toxicity:	No data available
Carcinogenicity:	The mixture does not contain ingredients classified as carcinogenic. No known carcinogenic effects.
Microorganism cell mutation:	The mixture does not contain any ingredients classified as mutagenic. Mutagenic effects are not known.
Toxicity for the reproductive system:	The mixture does not contain ingredients which are classified as toxic for reproduction system. Reproductive toxicity is not known.
Specific target organ toxicity (STOT):	
STOT - single exposure	The mixture does not meet the criteria for classification.
STOT - repeated exposure	The mixture does not meet the criteria for classification.
Inhalation hazard:	The mixture does not meet the criteria for classification.
Information on likely routes of exposure:	May cause skin contact, skin and eye contact, inhalation and unlikely ingestion.
Symptoms - physical, chemical and toxicological characteristics:	
Inhalation:	Mild irritation of upper respiratory tract may occur.
Skin contact:	Not expected under the intended conditions of use.
Ingestion:	There may be irritation of the throat.
Eye contact:	There may be irritation and redness.
Other information:	No data available.

12. Ecological information	
12.1. Toxicity	Harmful to aquatic life with long lasting effects.
Ingredients:	
Substance, CAS No. -Mode of action, organism -Dose	QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES(68424-85-1)
	LC50, Fish, Pimephales promelas, 96h(0.28 mg / L) EC50, Daphnia, Daphnia magna, 48h (0.0058 mg / L); (0.0016 mg / L) ErC50, algae, Selenastrum capricornutum, 72h (0.049 mg / L) NOEC, Daphnia, Daphnia magna, 21 d. ($\geq 4.15 \mu\text{g} / \text{l}$)
12.2. Persistence and degradability	
The product is readily biodegradable.	
Substance / Result	QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES(68424-85-1) - 63%; 28 days; OECD 301 D(Readily biodegradable)

12.3. Bioaccumulative potential	
The bioaccumulation potential is low.	
Substance / BCF/ Potential	QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES(68424-85-1)- 79 (fish, flow - through test, 35 d. + 21st purification) Low
12.4. Mobility in soil	The product is completely miscible with water and can travel in groundwater. The active substance in the mixture is expected to be absorbed into the soil and not readily desorbed, so it is considered immobile
12.5. Results of PBT and vPvB assessment	Components of the mixture do not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, as amended. 1907/2006 XIII Annex.
12.6. Other adverse effects	The active substance in the mixture is considered to be harmful to the activated sludge of the treatment plant.
Other information:	Do not allow undiluted product to reach groundwater, sewage system, water or soil

13: Disposal considerations	
13.1. Waste treatment methods	Reuse or reprocess, if possible. May be subject to disposal regulations. Dispose in accordance with all applicable regulations. The waste codes below are indicative and are based on the product's instructions for use.
Material / product / residues	Group: 0704 Organic Plant Protection Products (for 020108 and 020109) wood preservatives (developed by Group 0302) and other biocides, wastes from technological processes of preparation, delivery and use; Class: 070499 Other wastes from this group. The product is hazardous waste. Must not be disposed together with household garbage. Dispose of through licensed waste disposal companies. For example, chemical and / or physical processing. Properties of waste: HP 14 "Ecotoxic" - Waste that creates or can be reached or delayed one or two of the environmental elements are at risk.
Contaminated Packaging	Group: 1501 Packaging (including separately collected municipal waste packaging). Classes: cleaned: 150102 Plastic packaging; Uncleaned: 150110 Packaging containing residues of or containing dangerous substances contaminated. Empty container as far as possible. It can be recycled after proper treatment Recommended cleaning agent: water. Dispose of non-cleanable packaging in the same way as the product.
Other information:	Do not allow undiluted product to reach ground water, sewage system, water or soil.

14. Transport information	
14.1. UN number:	Not classified
14.2. UN shipping name:	Not classified
14.3. Transport hazard class:	Not classified
14.4. Packing group:	Not classified
14.5. Environmental hazards:	Not classified according to transport regulations.

14.6. Special precautions for user:	Not
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:	Not applicable.
Other information:	Not classified as dangerous in the meaning of international transport regulations.

15. Regulatory information	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
	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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
	Council Regulation (EU) 2017/997 of 8 June 2017 amending Annex III to Directive 2008/98/EC of the European Parliament and of the Council as regards the hazardous property HP 14 'Ecotoxic'
	Cabinet Regulation No. 628 of 27 August 2013, Requirements for Handling of Biocidal Products Cabinet Regulation No. 302 of 19 April 2011, Regulations Regarding Waste Classification and Characteristics that Make Waste Hazardous Cabinet Regulation No. 484 of 21 June 2011 "On Hazardous Waste Accounting, Identification, Storage, Packaging, Labeling and shipment accounting "
	Cabinet Regulation No. 325 of May 15, 2007 "Labor Protection Requirements in Contact with Chemicals in Workplaces" Cabinet Regulation No. 795 of 22 December 2015, Procedure and Database for Registration of Chemical Substances and Mixtures
15.2. Chemical Safety Assessment	A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

16. Other information	
Training rules:	Persons who handle the product and must be instructed on the risks and require their health and environment protect.
	In accordance with Article 35 of the REACH Regulation: "Employers and their representatives must gain access from their employer to the information they must be provided in accordance with Articles 31 and 32 for substances or mixtures that they use or may be exposed to at work. "
Abbreviations:	PBT - Persistent, Bioaccumulative and Toxic (substance) vPvB - very persistent and very bioaccumulative (substance) LC50 - Lethal dose 50% of the test population LC50 - lethal concentration in 50% of the test population EC50 is the mean effective concentration IC50 - inhibitory concentration 50% of the test population ErC50 is the concentration of test substance which produces a 50% reduction in growth rate compared to control NOEC - No Observed Effect Concentration BCF - bioconcentration factor
Descriptions of hazard classes and categories as well as hazard statements codes:	Acute Tox. 4 - Acute toxicity, Hazard Category 4 Aquatic Acute 1 - Hazardous to the aquatic environment - Acute Hazard Category 1 Aquatic Chronic 1 - Hazardous to the aquatic environment - Chronic Hazard Category 1 Skin Corr. 1B - Skin corrosion, Hazard Category 1B H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.
Classification and determination of the mixture according to	

MSDS - ALCOHOL FREE DISINFECTANT

Regulation (EC) No 1907/2006 Regulation (EC) No 1272/2008 Procedure used in Regulation (EC) No 1272/2008:	
Classification: Aquatic Chronic 3; H412:	Classification procedure:Expert method of calculation.
Sources of information:	Material Safety Data Sheet of the supplier; quality passports and certificates and information from databases. Database of the European Chemicals Agency (ECHA).
Additional sources of information:	Directive 98/8/EC concerning the placing biocidal products on the market. Inclusion of active substances in Annex I to Directive 98/8/EC. Assessment Report. Alkyl (C12-16) dimethylbenzyl ammonium chloride. Product-type 8. (Wood preservative)., June 2015, Italy. Pieejams: http://dissemination.echa.europa.eu/Biocides/ActiveSubstances/0063-08
Other information	This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by SIA „GMT”. to be dependable and is accurate to the best of the Company’s knowledge. It is not meant to be an all inclusive document on worldwide hazard communication regulation.