



SAFETY DATA SHEET

According to Reg. 1272/2008/EC and Reg. 830/2015/EU

1		CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
1.1	Product name	GREEN APPLE	
1.2	Description and use of the product	High concentration cleaning and sanitizing product Do not use for other purposes	
1.3	Company name	ITALSAN S.R.L.	
1.4	Address	Via Mazzini, 5 - 21040 Venegono Sup. (VA)	
1.5	Telephone number	+39.0331.850186	
1.6	Fax number	+39.0331.850357	
1.7	E-mail address of the competent person responsible for Safety Data Sheet	mario.magni@italsan.it	
1.8	Emergency phone number	Poison control center, Niguarda Hospital (Milano): 0039 02 66101029	
2		HAZARDS IDENTIFICATION	
Pictograms and hazard labelling of the product			
2.1	Reg. EC 1272/2008	DANGER	
	Substances on label	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides Alcohols, C11-13-branched, ethoxylated Green apple fragrance (ALLYL CYCLOHEXYLPROPIONATE, NEROL, BUTYLPHENYL METHYLPROPIONAL, HEXYL CINNAMAL, GERANYL ACETATE, 2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE, METHYLENEDIOXYPHENYL METHYLPROPANAL)	
Classification and identification of hazards			
2.2	Reg. EC 1272/2008	Eye damage 1 Skin irrit. 2 Aquatic chronic 1	
	Hazards to humans	Serious eye irritation Skin irritation May produce an allergic reaction	
	Hazards to environment	Very toxic to aquatic life with long lasting effects	
	Physical or chemical hazards	No relevant chemical or physical hazards	
Hazard statements H			
2.3	H315 - Causes skin irritation		
	H318 - Causes serious eye damage		
	H410 - Very toxic to aquatic life with long lasting effects		
	EUH208 - Contains Green apple fragrance (ALLYL CYCLOHEXYLPROPIONATE, NEROL, BUTYLPHENYL METHYLPROPIONAL, HEXYL CINNAMAL, GERANYL ACETATE, 2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE, METHYLENEDIOXYPHENYL METHYLPROPANAL). May produce an allergic reaction		



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Precautionary statements	
2.4	P102 - Keep out of reach of children
	P273 - Avoid release to the environment
	P280 - Wear protective gloves/protective clothing/eye protection/face protection
	P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
	P302+P352 - IF ON SKIN: Wash with plenty of soap and water
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P501 - Dispose of contents/container to authorized disposal plants

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Chemical composition: sanitizer and deodorant liquid containing cationic, non ionic surfactants, fragrances and other process chemicals

Chemical name of hazardous substances	CAS N.	EC N.	Pictograms	Classification, Hazard statements H	Conc. [%]
			Reg. EC 1272/2008	Reg. EC 1272/2008	
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides REACH Reg. N.: not available	68424-85-1	270-325-2	DANGER GHS05 GHS07 GHS09	Met. Corr.1, H290 Acute Tox. 4 - H302 Skin corr. 1B - H314 Eye Dam. 1 - H318 Aquat. Ac. 1 - H400 (M = 10) Aquatic chronic 1 - H410	3,0 ± 2
Alcohols, C11-13-branched, ethoxylated REACH Reg. N.:not applicable	68439-54-3	n.a.	DANGER GHS05 GHS07	Acute Tox. 4 - H302 Eye Dam. 1 - H318 Aquatic chronic 3 - H412	5,0 ± 2

Water and other non-hazardous substances or placed an extent not-significant for hazards classification according to Reg. 1272/2008/EC.

Total content of green apple fragrance sensitising substances is < 0,2% (ALLYL CYCLOHEXYLPROPIONATE, NEROL, BUTYLPHENYL METHYLPROPIONAL, HEXYL CINNAMAL, GERANYL ACETATE, 2,4-DIMETHYL-3-CYCLOHEXENE CARBOXYALDEHYDE, METHYLENEDIOXYPHENYL METHYLPROPANAL)

The active ingredients (quaternary ammonium salts) is notified to the European Commission, according to the Biocides Regulation (BPR)

4 FIRST AID MEASURES

4.1	Eye contact	Rinse opened eye for several minutes under running water and seek immediate medical advice, showing this MSDS
4.2	Skin contact	Remove contaminated clothes. Immediately wash with water and soap and rinse thoroughly.
4.3	Swallowing	Drink water and seek immediate medical advice, showing this MSDS
4.4	Inhalation	Supply fresh air; consult doctor in case of complaints
4.5	other informations	Immediately remove contaminated clothing

5 FIRE FIGHTING MEASURES

5.1	Suitable extinguishing agents	The water based liquid is not flammable. In case of fire around the dispensers, use CO ₂ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam
5.2	Unsuitable extinguishing agents for safety reasons	Do not use water jet. The water is not effective to extinguish the fire, but can be used to cool containers exposed to flames to prevent fires and explosions
5.3	Special hazards caused by the substance and its combustion products or resulting gases	Avoid breathing fumes
5.4	Protective equipment	Use protection for the respiratory tract. Cool fire exposed containers with water
5.5	Other informations	Cool endangered containers with water spray. Do not allow contaminated water used to extinguish entering into soil, ground water and surface water







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6		ACCIDENTAL RELEASE MEASURES
6.1	Person-related safety precautions	Ensure adequate ventilation, avoid contact with mist and breathing fumes. Use safety gloves and clothes.
6.2	Measures for environmental protection	Do not allow product to reach sewage system or any water course  
6.3	Measures for cleaning/collecting	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Treat washing waste water according to local environmental regulation.
6.4	Additional informations	Collect residues in a container identified, refer to Section 13 for disposal
7		HANDLING AND STORAGE
7.1	Handling	Ensure adequate ventilation or extraction of air. Verify the atmosphere regularly and avoid breathing vapors, wear a respirator if necessary. Do not smoke, drink or eat during use. Provide points of water nearby. Keep out of reach of children
7.2	Storage	Store the original containers, tightly closed in a dry place and away from heat sources. Keep container closed before and after use. Use storage areas with impermeable floor creating drip pans
7.3	Final specific uses	Water based High concentration cleaning and sanitizing product
8		EXPOSURE CONTROLS / PERSONAL PROTECTION
8.1	Environmental protection devices	Provide a replacement of air and / or suction to the work environment and deposit, in order to maintain the environmental concentrations below the exposure limits
8.2	Control parameters	No available data
8.3	Respiratory protection	Not necessary in case of normal use
8.4	Eyes protection	For the handling and packaging of the product as such, operate in each case with caution, according to good working practices, so sketches and direct contact during manipulation. For situations of particular risk: visor and goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU) 
8.5	Hands protection	For the long term handling and packaging, protective gloves are advised, according to standard EN374; materials for long contact time. Recommended: protection factor 6 (time > 480 min. Ex: PVC – thickness 0.7 mm. See also technical sheet of material supplier. 
8.6	Skin protection	Protective clothes are advised  
8.7	Other informations	Keep away from foodstuffs. Wash hands thoroughly after handling the product. Keep working clothes separately. Immediately remove contaminated clothing. Follow the local Safety Management standards and instructions.

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9 PHYSICAL AND CHEMICAL PROPERTIES		
9.1	Appearance	Limpid, liquid
9.2	PH	7,5 ± 1
9.3	Odour	Characteristic of green apple
9.4	Odour threshold	No available data
9.5	Density at 20°C	About 1,0 g/ml
9.6	Flash point	Not applicable
9.7	Melting temperature	About 0°C
9.8	Boiling temperature	About 100°C
9.9	Self-ignition temperature	No available data
9.10	Explosive range	No available data
9.11	Comburent properties	No available data
9.12	Vapour pressure	No available data
9.13	Water solubility	Soluble at any ratio
9.14	Oils/solvents solubility	No available data
9.15	Partition coefficient n-octanol/water (log Pow)	No available data
9.16	VOC (Volatile organic compounds)	< 0,1% by weight

10 STABILITY AND REACTIVITY		
10.1	Stability and reactivity	Stable under normal conditions of handling and storage. No decomposition if used according to specifications
10.2	Incompatible materials	Strong acids, oxidising substances, anionic surfactants
10.3	Other informations	Avoid overheating

11 TOXICOLOGICAL INFORMATIONS			
11.1	Toxicological effects, general informations, CMR properties	Specific target organ toxicity: No effect detected Cancerogenicity: No effect detected Mutagenicity: No effect detected Reproductive toxicity: No effect detected	
11.2	Acute toxicity	Component	LD50-oral
		LD50-skin	
		Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	795 mg/kg (rat)
		Alcohols, C11-13-branched, ethoxylated	300 - 2000 mg/kg (rat)
			> 2000 mg/kg (rabbit)
11.3	Local effects	Sensitizing effects: the mixture is not classified sensitising. The total content of sensitising substances is < 0,1% Effects on skin: possible serious irritation in case of direct contact Effects on eyes: possible damage in case of direct contact Inhalation and ingestion: slight harmful effects in case of direct inhalation or swallowing As part of the system designed for dispensing the amount released into the water does not cause any significant health	



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12 ECOLOGICAL INFORMATION		
12.1	Elimination information (persistence and degradability)	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides Ready Biodegradability (> 60%)
		Alcohols, C11-13-branched, ethoxylated OECD 301B Ready Biodegradability - CO2 Evolution Test 28 days 85 % No official guidelines 122 days 70 a 99 %
12.2	Ecotoxicity	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides Toxicity to fish: LC50 = 0,085 mg/l, 96 h, Oncorhynchus mykiss (OECD 203) Toxicity to algae: EC50 = 0,025 mg/l, 96 h, Selenastrum capricornutum (OECD 201) Toxicity to aquatic invertebrates: EC50 = 0,016 mg/l, 48 h, Daphnia magna (OECD - guideline 202)
		Alcohols, C11-13-branched, ethoxylated Toxicity to fish: LC50 = 1 - 10 mg/l, 96 h, Cyprinus carpio (DIN EN ISO 7346-2) Toxicity to fish aquatic invertebrates: EC50 = 1 - 10 mg/l, 48 h, Daphnia magna (OECD - guideline 202)
12.3	Potential of bioaccumulation	Product is not classified PVB or vPvB
12.4	Mobility in soil	No available data
12.5	Further informations	Avoid product entering watercourses, waste water or soil. Hazardous to water. Do not enter ground water, water course or sewage system


13 DISPOSAL CONSIDERATIONS		
13.1	Disposal recommendation	Dispose of in compliance with all applicable international, national and local. Do not dispose together with household refuse. Dispose of as industrial waste
13.2	European waste catalogue (EWC)	For disposal within the EU is roughly from the code used by the sudden refusal to register the European Waste Catalogue (EWC)

14 TRANSPORT INFORMATION		
14.1	Land transport ADR – RID (road and rail)	UN number: 3082 Description: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides) ADR RID class: 9 Kemler n.: 90 Packing group: III Tunnel restriction code: E
14.2	Transport by sea IMDG	UN number: 3082 Description: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides) IMDG class: 9 Packing group: III Marine pollutant: YES
14.3	Air transport IATA	UN number: 3082 Description: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides) IATA class: 9 Packing group: III



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15 REGULATORY INFORMATION		
15.1	Reg. 1272/2008/EC	The product does not contain substances which can be classified as carcinogenic cat. 1 or 2 under Reg. 1272/2008 / EC and later amendments
15.2	Reg. 1907/2006/EC (REACH)	The product conforms to the requirements provided for in Title II of Reg. 1907/2006 / EC (registration of substances) The product does not contain SVHC substances included in the candidate list of ECHA on the date of issue of this sheet.
15.3	Reg. 528/2012/EC	Applicable
15.4	Directive Seveso III	Not applicable
15.5	WHIMIS Hazard symbol	 D2B - Skin/Eye Irritant
16 OTHER INFORMATIONS		
16.1	Full text of H statements, sections 2 and 3 (Reg. 1272/2008/EC)	H290 – May be corrosive to metals
		H302 – Harmful if swallowed
		H312 – Harmful in contact with skin
		H314 – Causes severe skin burns and eye damage
		H318 – Causes serious eye damage
		H315 – Causes skin irritation
		H400 - Very toxic to aquatic life
		H410 – Very toxic to aquatic life with long lasting effects
		H412 – Harmful to aquatic life with long lasting effects
		EUH208 - Contains (name of sensitising substance). May produce an allergic reaction
16.2	Bibliographic references	ECDIN - Environmental Chemical Data and Information Network
		IUCLID - International Uniform Chemical Information Data Base
		ECHA C&L inventory
		NIOSH - Registry of Toxic Effects of Chemical Substances
		ChemDAT - Safety Data Sheets from E. Merck on CD-ROM
		ESIS - European Chemical Substances Information System
16.3	Further informations	The information herein is correct at the Reg 1272/2008/EC and following amendments. Product conforms to the requirements provided in Title II of Regulation 1907/2006/EC (the registration of substances). None of the substances in this product is subject to authorization (annex 14) or is included in the candidate list of SVHCs under the REACH Regulation, the issuance of this sheet
16.4	Changes of the previous issue	Not applicable
16.5	Disclaimer	This MSDS complies with the requirements of Reg 830/2015/EU. It does not excuse in any way the user from knowing and applying all texts governing his activity. The user will take under its responsibility the precautions related to the use of the product. The set of regulations mentioned is intended simply to help the recipient to fulfill her obligations. This list should not be considered as a technical note details The information is based on our knowledge of the product, the date indicated. They are given in good faith. The attention of the user is directed to possible risks incurred when a product is used for other purposes than for which it was conceived. The recipient must ensure that no other obligations to compete on the basis of texts in addition to those mentioned

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