



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH) and ECC Regulation 2015/830

Date of Issue 19.12.2016

MAXPRO DEZ4HAND

Revision Date 19.02.2020
page 1/ 57

SECTION 1. Identification of the substance/mixture and the company/undertaking

- 1.1 Product Name:** MAXPRO DEZ4HAND
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Identified Uses: Biocidal Gel for Hygienic Disinfection of hands. For full details regarding recommended uses please refer to the product label.
Unidentified Uses: Not specified
- 1.3 Details of the supplier of the safety data sheet:**
DCC CHEMIA
ul. Husarska 17
87-100 Torun
Poland
Tel. 0048 56 658 5975
cccchemia@gmail.com
www.danex.torun.pl
- 1.4 Emergency telephone number:** National Poisons Information Centre (Eire) 01-8092566/8379964

SECTION 2: Hazards Identification

- 2.1 Classification of the substance or mixture**
Classification (EC 1272/2008)
Physical hazards Flam. Liq. 2 - H225
Health hazards Eye Irrit. 2 - H319
H225 – Highly flammable liquid and vapour.
H319 – Causes serious eye irritation.
- 2.2 Label elements:**
Pictograms:

Signal word: Danger
Hazard statements:
H225 – Highly flammable liquid and vapour.
H319 – Causes serious eye irritation.
Precautionary Statements:
P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
- 2.3 Other hazards:**
Lack of information regarding substances classified as PBT or vPvB according to the Annex XIII of the EC Directive No. 253/2011 from date 15.03.2011. Tests have not been conducted.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances:** N/A
3.2 Mixtures:

CHEMICAL NAME	CONCENTRATION	CAS NO	EC No.	Classification according to 1272/2008/EC
---------------	---------------	--------	--------	--



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH) and ECC Regulation 2015/830

Date of Issue 19.12.2016

MAXPRO DEZ4HAND

Revision Date 19.02.2020
page 2/ 57

Ethanol Registration No: 01-2119457610-43-XXXX	70-80%	64-17-5	200-578-6	Flam. Liq.2, H225 Eye Irrit.2, H319
Alkyl (C12-16) - dimethylbenzylammonium chloride Registration No: 01-2119457558-25-XXXX	0,13%	68424-85-1	270-325-2	Acute Tox. 4 H302 Skin Corr. 1 B H314 Aquatic Chronic 1, H410 Aquatic Acute 1, H400

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures:

Ingestion:

Do not induce vomiting and it occurs, keep head tilted forward to prevent aspiration of stomach contents. Keep the individual calm. Rinse mouth and throat well.

Inhalation:

Consult a doctor if symptoms persist. Move the individual to fresh air and keep them calm and warm.

Skin contact:

N/A - the product is intended for skin and hand disinfection.

Eye contact:

Rinse cautiously with water for several minutes. Do not rub eyes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist consult a doctor.

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

Eye Irritation: redness/ watering of the eyes may occur.

Ingestion: stomach pain, nausea, vomiting, alcohol-like intoxication may occur.

Skin Contact: moderate skin irritation with redness may occur after prolonged contact.

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

If the individual is unconscious, ensure that the airways are clear and put them in a stable side position. Provide medical assistance. The decision on how to proceed should only be made by a doctor after assessing the individual's condition.

SECTION 5. Firefighting methods

5.1 Extinguishing methods:

Suitable extinguishing media: CO₂, extinguishing powder, alcohol resistant foam, compact stream of water.

Unsuitable extinguishing media: water jet - danger of fire spreading.

5.2 Special hazards arising from the substance or mixture:

toxic gases and fumes may be formed during combustion

5.3 Information for firefighters:

General protective measures in the event of fire: do not stay in the fire endangered area without suitable chemical-resistant clothing and a breathing apparatus. Containers at risk of fire should be removed if possible and without excessive risk, or cooled with water from a suitable distance. Isolate the area by removing all individuals from the vicinity of the accident if there is a fire. You should not take any action that would put anyone at risk unless you are properly trained.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Personal precautions: Limit the access of bystanders to the area of the incident. Do not touch or walk through spilled material. Do not breathe in vapours - ventilate the area. Remove all sources of ignition, announce smoking ban. Put on appropriate protective equipment. Do not use sparking tools.

Precautions for personal who clean up: The removal of an accident and its effects may only be carried out by trained personnel. In the event of large spills, isolate the affected area. Use protection equipment. Avoid prolonged contact with skin. Avoid contact with eyes. Comply with health and safety rules and regulations.

6.2 Environmental precautions:

If larger quantities of the product are released, steps should be taken to prevent spreading in the environment. Notify appropriate emergency services.

6.3 Methods for cleaning up:



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH) and ECC Regulation 2015/830

Date of Issue 19.12.2016

MAXPRO DEZ4HAND

Revision Date 19.02.2020
page 3/ 57

Collect the product with non-combustible materials that absorb liquids (e.g. sand, soil, universal binders, silica, etc.) and place in waste containers. Do not mix with other waste. Treat collected material as waste. Clean and ventilate the contaminated area well. Do not use sparking tools.

6.4 References to other sections:

Product waste management - section 13 of the safety data sheet, personal protection equipment - section 8 of the safety data sheet.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Work in accordance with the principles of health and safety. Avoid eye contact. Keep unused containers tightly closed. Use as intended. Ensure good ventilation. Do not breathe vapours. Remove all sources of ignition and open flame, do not smoke when working with the product. Take precautionary measures against static discharge.

7.2 Conditions for safe storage, including any incompatibilities:

Store only in original, airtight containers in a dry and well-ventilated place. Keep away from food items and animal feed. Avoid sources of heat and open flame. Avoid direct sunlight. Do not store with incompatible materials (see subsection 10.5). Do not use after the expiry date. Do not store above 25°C.

7.3 Specific end use:

The identified uses for this product are detailed in section 1.2

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

ETHANOL: WEL - 1900 mg/m³; NDSCh - not specified; NDSP - not specified

DNEL values for staff:

In long-term exposure (system effect) through the skin:	343 mg/kg
In long-term exposure conditions (systemic and local effect) by inhalation:	1900 mg/kg
In long-term exposure (system effect) by ingestion:	950 mg/kg

DNEL values for general population:

In long-term exposure (system effect) through the skin:	1,161 mg/kg
In long-term exposure conditions (systemic and local effect) by inhalation:	600 mg/m ³

PNEC:

Fresh waters:	0,96 mg/l
Marine waters:	0,79 mg/l
Intermittent release	2,75 mg/l
Sewage treatment:	580 mg/l

8.2 Exposure Control:

Abide to the general principles of safety and hygiene. Do not eat, drink or smoke while working. Wash your hands thoroughly before breaks and after finishing work. Avoid contact with eyes and skin. Ensure adequate ventilation. If there is a risk of clothing catching on fire during work, safety showers should be installed near the work stations.

Respiratory protection:	Use in the absence of ventilation
Eye/face protection:	Wear safety glasses
Skin protection:	Wear protective gloves
Technical protective measures:	General ventilation of the room

SECTION 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance:	liquid
Colour:	colourless
Odour:	characteristic
Odor threshold:	not determined
pH:	approx. 7



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH) and ECC Regulation 2015/830

Date of Issue 19.12.2016

MAXPRO DEZ4HAND

Revision Date 19.02.2020
page 4/ 57

Boiling/melting point:	not determined
Initial boiling point and range:	not determined
Flashpoint:	19°C
Evaporation Rate:	not determined
Combustibility:	not determined
Upper/lower flammability or explosive limits	2,5/15% capacity - ethanol
Vapour pressure:	not determined
Vapour density:	not determined
Relative density:	0,85 g/ml
Solubility:	in water - very good
Partition coefficient for n-octanol/water:	not determined
Auto-ignition temperature	425°C
Decomposition temperature:	not determined
Viscosity:	not determined
Explosive properties:	not determined
Oxidising properties:	not determined
9.2 Other information:	not determined

SECTION 10. Stability and reactivity

- 10.1 Reactivity:**
Reactive product. Does not undergo hazardous polymerization. Product vapors may form explosive substance with air. See also subsections 10.3 - 10.5.
- 10.2 Chemical stability:**
The product is stable when used and stored properly.
- 10.3 Possibility of hazardous reaction:**
Concentrated alcohols may react violently with oxidizing agents. Contact with light metals may give off hydrogen.
- 10.4 Conditions to avoid:**
Avoid sources of heat, ignition and open flame. Avoid direct sunlight on containers containing the product..
- 10.5 Incompatible materials:**
Strong oxidizers, light metals. Particular care should be taken when in contact with materials sensitive to alcohol, e.g. jewelry, plastic watches.
- 10.6 Hazardous decomposition products:**
Not known.

SECTION 11. Toxicological information

- 11.1 Information on toxicological effects:**
- | | | |
|----------|---|--|
| a | Acute toxicity: | Based on available data, the classification criteria are not met |
| b | Skin corrosion/irritation: | Based on available data, the classification criteria are not met |
| c | Serious eye damage / eye irritation: | Based on available data, the classification criteria are not met |
| d | Respiratory or skin sensitisation: | Based on available data, the classification criteria are not met |
| e | Germ cell mutagenicity: | Based on available data, the classification criteria are not met |
| f | Carcinogenicity: | Based on available data, the classification criteria are not met |
| g | Reproductive toxicity: | Based on available data, the classification criteria are not met |
| h | Specific target organ toxicity - single exposure: | Based on available data, the classification criteria are not met |
| i | Specific target organ toxicity - repeated exposure: | Based on available data, the classification criteria are not met |



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH) and ECC Regulation 2015/830
Date of Issue 19.12.2016
MAXPRO DEZ4HAND

Revision Date 19.02.2020
page 5/ 57

j Aspiration hazard: Based on available data, the classification criteria are not met

Toxicological information based on ingredients:

Identification	Acute Toxicity		Species
ethanol	LD50 oral	7060 mg/kg	rat
CAS: 64-17-5	LD50 dermal	*	rat
EC: 200-578-6	LD50 inhalation	95,6 mg/l m3	rat
Alkyl (C12-16) -dimethylbenzylammonium chloride	LD50 oral	344 mg/kg	rat
CAS: 68424-85-1	LD50 dermal	3340 mg/kg	rabbit
EC: 270-325-2	LD50 inhalation	*	rat

SECTION 12. Ecological Information

12.1 Toxicity

Identification	Acute Toxicity		Species	
ethanol	LC50	8140 mg/l	fish	Daphnia magna
CAS: 64-17-5	EC50	9000 mg/l	algae	Leuciscus idus
EC: 200-578-6	EC50	*	shellfish	*
Alkyl (C12-16) -dimethylbenzylammonium chloride	LC50	0,28 mg/l	fish	Pimephales promelas
CAS: 68424-85-1	EC50	0,049 mg/l	algae	Pseudokirchneriella subcapitata
EC: 270-325-2	EC50	*	shellfish	*

12.2 Persistence and degradability

The product is biodegradable.
Ethanol is 97% biodegradable. OECD 301B test result.

12.3 Bioaccumulative potential: Not determined

12.4 Mobility in soil: Not determined

12.5 Results of PBT and vPvB assessment: Not determined

12.6 Other adverse effects:

The mixture is not classified as hazardous to the ozone layer. The possibility of other harmful effects of the individual components of the mixture on the environment should be considered (e.g. ability to disturb the hormonal balance, impact on global warming).

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Recommendations for the mixture:

Reuse or recycle products wherever possible. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Recommendations for used packaging:

Reuse/Recycling of packaging waste should be carried out in accordance with applicable regulations. Only completely emptied packaging can be sent for recycling.

SECTION 14. TRANSPORT INFORMATION

Road/rail transport (ADR/RID)

UN1170

Inland water transport (ADN)

ethanol in solution

Sea transport

F-E, S-D



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH) and ECC Regulation 2015/830

Date of Issue 19.12.2016

MAXPRO DEZ4HAND

Revision Date 19.02.2020
page 6/ 57

14.5 Environmental hazards

Environmentally hazardous substance/marine pollutant no

14.6 Special precautions for user:

Avoid fire and heat sources.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

N/A

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the substance and mixture:

EU legislation

Substances to be authorised according to the EC Directive 1907/2006 (REACH): no data

Substances present in Annex XIV EC (REACH) and expiry date: no data

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: no data

Active substances not included in Annex I (Regulation (EU) No 528/2012): no data

REGULATION (EU) No 649/2012 concerning the export and import of dangerous chemicals: no data

Regulation (EC) No 648/2004 on detergents (amended):

According to this regulation, the product meets the following criteria:

The surfactants contained in this mixture meet the biodegradability criterion from Regulation (EC) No. 648/2004 on cleaning agents.

Data confirming this statement is at the disposal of the relevant authorities of the member countries and will be made available to them at the direct request or at the request of the cleaning agent manufacturer.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 regarding the registration, evaluation, authorization and restriction of chemicals (REACH), establishment of the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/6/EEC, 93/105/EC and 2000/21/EC as amended

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No. 1907/2006 as amended

Act of 25 February 2011 on chemical substances and their mixtures (Journal of Laws of 2011, No. 63, item 322) Regulation of the Minister of Health (Poland) of 30 December 2004 on occupational health and safety related to the presence of chemical agents at work (Journal of Laws 2005 No. 11 item 86)

Announcement of the Minister of Economy, Labor and Social Policy (Poland) of 28 August 2003 on the publication of a uniform text of the Regulation of the Minister of Labor and Social Policy (Poland) on general provisions on occupational health and safety (Journal of Laws 2003 No. 169 item 1650)

Regulation of the Minister of Health (Poland) of February 2, 2011 on tests and measurements of factors harmful to health in the work environment (Journal of Laws No. 33, item 166 of 2011)

Regulation of the Minister of Health (Poland) of August 10, 2012. on the criteria and manner of classifying substances and their mixtures (Journal of Laws of 2012, item 1018) as amended.

Regulation of the Minister of Health (Poland) of 20 April 2012. on the labeling of packaging for dangerous substances and dangerous mixtures and certain mixtures (Journal of Laws of 2012, item 445) as amended

Act of 14 December 2012. on waste (Journal of Laws 2013, item 21). Act on biocidal preparations (Journal of Laws of 2002, No. 175, item 1433).

Commission Directive 2000/39/EC of 8 June 2000 establishing the first list of indicative limit values for exposure to external factors at work in connection with the implementation of Council Directive 98/24/EEC on the protection of the health and safety of workers from the risks related to chemical agents in the workplace.

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values for the implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC. By Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure values for the implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC. Regulation of the Minister of Health (Poland) of 11 June 2012 on the category of dangerous substances and dangerous mixtures, whose packaging is equipped with closures making it difficult for children to open and tactile warning of danger (Journal of Laws of 2012, item 688)



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH) and ECC Regulation 2015/830

Date of Issue 19.12.2016

MAXPRO DEZ4HAND

Revision Date 19.02.2020

page 7/ 57

Regulation of the Minister of Economy (Poland) of December 21, 2005 on the essential requirements for personal protective equipment (Journal of Laws of 2005, No. 259, item 2173).

Regulation of the Minister of Labor and Social Policy (Poland) of 26 September 1997. on general health and safety regulations (consolidated text OJ 03.169.1650, OJ 07.49.330, OJ 08.108.690, OJ 11.173.1034)

Regulation of the Minister of Health (Poland) of 24 July 2012 on chemical substances, their mixtures, factors or technological processes with carcinogenic or mutagenic effect in the work environment (Journal of Laws of 2012, item 890) Act of 19 August 2011. on the carriage of dangerous goods (Journal of Laws of 2011, No. 227, item 1367)

Government Statement of 28 May 2013 on the entry into force of amendments to Annexes A and B of the European Agreement concerning the international carriage of dangerous goods by road (ADR), done at Geneva on 30 September 1957 (Journal of Laws of 2013, item 815).

Government Declaration of 22 May 2013 on the entry into force of amendments to the Regulations on the International Carriage of Dangerous Goods by Rail (RID), which is Annex C to the Convention on International Carriage by Rail (COTIF), drawn up at Bern on May 9, 1980. . (Journal of Laws of 2013, item 840).

Regulation of the Minister of Economy (Poland) of October 10, 2013. on the application of restrictions specified in Annex XVII to Regulation 1907/2006 (Journal of Laws 2013 item 1314)

Act of 13 June 2013 on the management of packaging and packaging waste (Journal of Laws 2013 item 888) Announcement of the Minister of Economy (Poland) of April 14, 2014 on the announcement of a uniform text of the Regulation of the Minister of Economy (Poland) on restrictions on the production, marketing or use of dangerous or hazardous substances and mixtures and the placing on the market or use of articles containing such substances or mixtures (Journal of Laws of 2014 No. 0 item 769)

Regulation (EU) No 98/2013 of the European Parliament and of the Council of 15 January 2013 on the placing on the market and use of explosives precursors

Regulation of the Minister of Labor and Social Policy (Poland) of June 6, 2014 regarding the highest allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2014 No. 0 item 817).

Regulation of the Minister of the Environment (Poland) of December 9, 2014. on the waste catalog (Journal of Laws of 2014 No. 0, item 1923). Act of 20 March 2015 amending the act on chemical substances and their mixtures (Journal of Laws of 2015 No. 0, item 675)

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents. Commission Regulation (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and Council on detergents to adapt its Annexes III and VII

Commission Regulation (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents to adapt Annexes V and VI to that Regulation (derogation for surfactants)

Regulation (EC) No 1336/2008 of the European Parliament and of the Council of 16 December 2008 amending Regulation (EC) No 648/2004 to align it with Regulation (EC) No 1272/2008 on the classification, labeling and packaging of substances and mixtures (Official Journal of the EU L 354 from 31 December 2008)

15.2 Chemical safety assessment:

No chemical safety assessment has been carried out.

SECTION 16. OTHER INFORMATION

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

Terms used in the safety data sheet:

Hazard statements:

H225 – Highly flammable liquid and vapour.

H319 – Causes serious eye irritation.

Precautionary statements:

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P210 – Keep away from heat, hot surfaces, open flames and other ignition sources. No smoking.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

P337 + P313 – If eye irritation persists: Get medical advice/attention.

Flam. Liq. 2 - highly flammable liquid and vapor

Eye Irrit.2 -irritating to eyes, category 2

Aquatic Chronic 1



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH) and ECC Regulation 2015/830

Date of Issue 19.12.2016

MAXPRO DEZ4HAND

Revision Date 19.02.2020
page 8/ 57

Aquatic Acute 1

Abbreviations:

ADR: The European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Dangerous Goods Code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

COD: Chemical Oxygen Demand

BOD: Biochemical Oxygen Demand within 5 days

BCF: Bioconcentration Factor

Log KOW: Logarithm of octanol/water partition coefficient

MATC: Maximum acceptable toxicant concentration

MPC: Maximum permissible concentration

EC50: Dose required for an individual to experience 50% of the maximum effect

LD50: Lethal dose

LC50: Lethal Concentration

EC50: Half maximal effective concentration

PBT: Bioaccumulative ability of toxic substances (persistence, bioaccumulative and toxic)

vPvB: Very Persistent, very Bioaccumulative

STP: Sewage Treatment Plant

EINECS: European Inventory of Existing Commercial Chemical Substances.

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration