

according to Regulation (EC) No. 1907/2006 (REACH)

#### N,N-Dimethyl-2-hydroxypropylammoniumchloride-polymer solution

Version number: GHS 4.0 (2021-10-25) Replaces version: GHS 3 (2020-07-08)

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 **Product identifier**

Trade name

SDS-Ref

N, N-Dimethyl-2-hydroxypropylammoniumchloride-polymer solution

Polyquat 60

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

> Relevant identified uses Water treatment chemical

> > Professional use

Consumer use (private households)

Details of the supplier of the safety data sheet Steinbach International GmbH 1.3

L. Steinbach Platz 1 4311 Schwertberg

Austria

Telephone: +43 7262 61431 1000 e-Mail: info@steinbach-group.com

e-Mail (competent person): sdb@steinbach-group.com

#### 1.4 **Emergency telephone number**

Country	Name	Postal code/city	Telephone	Opening hours
Austria	Vergiftungsinformationszentrale	1090 Wien	+43 1 406 4343 (24h)	
United King- dom	National Poisons Information Service		111 (24h)	

#### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Category	Hazard class and cat- egory	Hazard state- ment
3.10	acute toxicity (oral)	4	Acute Tox. 4	H302
4.1A	hazardous to the aquatic environment - acute hazard	1	Aquatic Acute 1	H400
4.1C	hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- Signal word

Warning

- Pictograms

GHS07, GHS09



- Hazard statements

H302 Harmful if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

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- Precautionary statements

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

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P312 Call a POISON CENTRE/doctor if you feel unwell.

P391 Collect spillage.

P501 Dispose of contents/container to hazardous or special waste collection point.

- Hazardous ingredients for labelling N,N-Dimet

N,N-Dimethyl-2-hydroxypropylammoniumchloride-polymer solution

#### 2.3 Other hazards

Of no significance

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not relevant (mixture).

#### 3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Classification acc. to GHS	Pictograms	Wt%
N,N-Dimethyl-2-hydroxypro- pylammoniumchloride-poly- mer solution	CAS No 25988-97-0	Acute Tox. 4 / H302 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	<b>₹</b>	50 – < 75

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
N,N-Dimethyl-2-hy- droxypropylammoni- umchloride-polymer solution	-	M-factor (acute) = 10.0	1,672 <sup>mg</sup> / <sub>kg</sub>	oral

For full text of abbreviations: see SECTION 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off immediately all contaminated clothing. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Self-protection of the first aider.

#### Following inhalation

Mouth to mouth resuscitation should be avoided. Use alternative methods, preferably with oxygen or compressed air driven apparatus. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Let be drunken in little sips: 0,1-0,2l Water. Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

None.

#### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media

Water jet

#### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Hydrogen chloride (HCI)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

#### **SECTION 6: Accidental release measures**

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

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: Kieselgur (diatomite), Sand, Universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use only in well-ventilated areas. Use local and general ventilation.

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

#### Control of effects

- Protect against external exposure, such as

High temperatures, Frost, UV-radiation/sunlight

#### Packaging compatibilities

Professional use: Only packagings which are approved (e.g. acc. to ADR) may be used. Consumer use (private households): Keep only in original container.

#### Conditions of storage

Keep container tightly closed in a cool place. Protect from sunlight. Keep away from children.

#### 7.3 Specific end use(s)

There is no additional information.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

This information is not available.

#### 8.2 Exposure controls (professional use)

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

- Eye/face protection

Use safety goggle with side protection (EN 166).

#### Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Type of material

PVC: polyvinyl chloride, NR: natural rubber, latex

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection: Full face mask (DIN EN 136).

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

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#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

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Physical state	liquid
Colour	various
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	100 °C
Flammability	not relevant (fluid)
Lower and upper explosion limit	not determined
Flash point	not determined
Auto-ignition temperature	not determined
pH (value)	5 – 8
Kinematic viscosity	not determined
Particle characteristics	no data available
Oxidising properties	none
Vapour pressure	
Vapour pressure	32 Pa at 25 °C

Density and/or relative density					
Density	not determined				
Relative vapour density	information on this property is not available				
Other safety parameters					
Solubility(ies)	not determined				

7, 11	
Partition coefficient	
n-Octanol/water (log KOW)	-3.13

#### 9.2 Other information

Information with regard to physical hazard classes Other safety characteristics hazard classes acc. to GHS (physical hazards): not relevant there is no additional information

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

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#### 10.5 Incompatible materials

Oxidisers

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Harmful if swallowed.

GHS of the United Nations, annex 4: May be harmful in contact with skin.

Acute toxicity estimate (ATE)

Oral  $1,672 \, \text{mg/kg}$ 

Name of substance	CAS No	Exposure route	End- point	Value	Species
N,N-Dimethyl-2-hydroxypropyl- ammoniumchloride-polymer solution	25988-97-0	oral	LD50	1,672 <sup>mg</sup> / <sub>kg</sub>	rat
N,N-Dimethyl-2-hydroxypropyl- ammoniumchloride-polymer solution	25988-97-0	dermal	LD50	>2,000 <sup>mg</sup> / <sub>kg</sub>	rabbit

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

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#### 11.2 Information on other hazards

There is no additional information.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

#### **Aquatic toxicity (acute)**

Endpoint	Value	Species	Exposure time
LC50	0.077 <sup>mg</sup> / <sub>l</sub>	rainbow trout	96 h
EC50	0.14 <sup>mg</sup> / <sub>I</sub>	daphnia magna	48 h
EC50	0.08 <sup>mg</sup> / <sub>l</sub>	daphnia magna	48 h
ErC50	0.13 <sup>mg</sup> / <sub>l</sub>	freshwater algae	72 h
EbC50	0.09 <sup>mg</sup> / <sub>I</sub>	freshwater algae	72 h

#### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
N,N-Dimethyl-2-hy- droxypropylammonium- chloride-polymer solu- tion	25988-97-0	LC50	0.077 <sup>mg</sup> / <sub>l</sub>	rainbow trout	96 h
N,N-Dimethyl-2-hy- droxypropylammonium- chloride-polymer solu- tion	25988-97-0	EC50	0.14 <sup>mg</sup> / <sub>l</sub>	daphnia magna	48 h
N,N-Dimethyl-2-hy- droxypropylammonium- chloride-polymer solu- tion	25988-97-0	EC50	0.08 <sup>mg</sup> / <sub>I</sub>	daphnia magna	48 h
N,N-Dimethyl-2-hy- droxypropylammonium- chloride-polymer solu- tion	25988-97-0	ErC50	0.13 <sup>mg</sup> / <sub>l</sub>	freshwater algae	72 h
N,N-Dimethyl-2-hy- droxypropylammonium- chloride-polymer solu- tion	25988-97-0	EbC50	0.09 <sup>mg</sup> / <sub>l</sub>	freshwater algae	72 h

#### **Aquatic toxicity (chronic)**

Endpoint	Value	Species	Exposure time
LC50	>1,000 <sup>mg</sup> / <sub>l</sub>	microorganisms	28 d
EC50	>1,000 <sup>mg</sup> / <sub>I</sub>	microorganisms	14 d

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#### Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
N,N-Dimethyl-2-hy- droxypropylammonium- chloride-polymer solu- tion	25988-97-0	LC50	>1,000 <sup>mg</sup> / <sub>I</sub>	microorganisms	28 d
N,N-Dimethyl-2-hy- droxypropylammonium- chloride-polymer solu- tion	25988-97-0	EC50	>1,000 <sup>mg</sup> / <sub>I</sub>	microorganisms	14 d

#### Biodegradation

Not readily biodegradable.

#### 12.2 Persistence and degradability

#### **Process of degradability**

Process	Degradation rate	Time
biotic/abiotic	81 %	28 d
biotic/abiotic	28 %	28 d

#### Degradability of components of the mixture

Name of sub- stance	CAS No	Process	Degradation rate	Time	Method
N,N-Dimethyl-2- hydroxypropylam- moniumchloride- polymer solution	25988-97-0	biotic/abiotic	81 %	28 d	
N,N-Dimethyl-2- hydroxypropylam- moniumchloride- polymer solution	25988-97-0	biotic/abiotic	28 %	28 d	

#### 12.3 Bioaccumulative potential

Data are not available.

#### Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
N,N-Dimethyl-2-hydroxypropylam- moniumchloride-polymer solution	25988-97-0		-3.13	

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

#### 12.7 Other adverse effects

Data are not available.

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#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Other disposal recommendations

Dispose of contents/container to hazardous or special waste collection point. Waste treatment of containers/packagings: Mixed municipal waste.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

#### **SECTION 14: Transport information**

14.1	UN number or ID number	3082
	adr/rid/adn	UN 3082
	IMDG-Code	UN 3082
	ICAO-TI	UN 3082

**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

ADR/RID/ADN ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

IMDG-Code ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

ICAO-TI Environmentally hazardous substance, liquid, n.o.s.

Technical name (hazardous ingredients)

N,N-Dimethyl-2-hydroxypropylammoniumchloride-polymer

solution

14.3 Transport hazard class(es)

ADR/RID/ADN 9
IMDG-Code 9
ICAO-TI 9

14.4 Packing group III (substance presenting low danger)

ADR/RID/ADN III
IMDG-Code III
ICAO-TI III

14.5 Environmental hazards hazardous to the aquatic environment

#### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

#### 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

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#### Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Classification code M6

Danger label(s) 9, fish and tree

Environmental hazards yes (hazardous to the aquatic environment)

Special provisions (SP) 274, 335, 375, 601

Excepted quantities (EQ)

Limited quantities (LQ)

Transport category (TC)

Tunnel restriction code (TRC)

Hazard identification No

Emergency Action Code

3Z

#### International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant yes (hazardous to the aquatic environment)

Danger label(s) 9, fish and tree

Special provisions (SP) 274, 335, 969

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 L
EmS F-A, S-F
Stowage category A

#### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Environmental hazards yes (hazardous to the aquatic environment)

Danger label(s) 9, fish and tree

Special provisions (SP) A97, A158, A197, A215

Excepted quantities (EQ) E1
Limited quantities (LQ) 30 kg

#### **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Relevant provisions of the European Union (EU)

#### Restrictions according to REACH, Annex XVII

No	Name of substance	CAS No	Type of registration
3	N,N-Dimethyl-2-hydroxypropyl- ammoniumchloride-polymer solu- tion		1907/2006/EC annex XVII

#### List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

#### **Seveso Directive**

No	Dangerous substance/hazard categories
E1	environmental hazards (hazardous to the aquatic environment, cat. 1)

#### **Deco-Paint Directive**

VOC content	0 %

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#### **Industrial Emissions Directive (IED)**

VOC content	0 %
VOC content	0 %

# Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

None of the ingredients are listed.

# Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

#### **Water Framework Directive (WFD)**

### List of pollutants (WFD)

Name of substance	CAS No	Listed in	Remarks
N,N-Dimethyl-2-hydroxypropylammoniumchloride- polymer solution		A)	

#### Legend

A)

Indicative list of the main pollutants

#### Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

#### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

#### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relevant
1.1	Trade name: Polyquat 60	Trade name: N,N-Dimethyl-2-hydroxypropylammoniumchloride-polymer solu- tion	yes
1.3	Details of the supplier of the safety data sheet: Steinbach International GmbH L. Steinbach Platz 1 43 11 Schwertberg Austria Telephone: +43 7262 61431 e-Mail: info@steinbach.at e-Mail (competent person): sdb@steinbach.at	Details of the supplier of the safety data sheet: Steinbach International GmbH L. Steinbach Platz 1 4311 Schwertberg Austria Telephone: +43 7262 61431 1000 e-Mail: info@steinbach-group.com e-Mail (competent person): sdb@steinbach-group.com	yes
2.1		Classification according to Regulation (EC) No 1272/2008 (CLP): change in the listing (table)	yes
2.2	- Hazardous ingredients for labelling: N,N-Dimethyl-2-hydroxypropylammoniumchloride-polymer	- Hazardous ingredients for labelling: N,N-Dimethyl-2-hydroxypropylammoniumchloride-polymer solu- tion	yes
2.3	Other hazards	Other hazards: Of no significance	yes
2.3	Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.		yes
3.2		Description of the mixture	yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relevant
4.1	General notes:  Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off immediately all contaminated clothing. In case of unconsciousness place person in the recovery position. Never give anything by mouth.	General notes:  Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off immediately all contaminated clothing. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Self-protection of the first aider.	yes
4.1	Following skin contact: Wash with plenty of soap and water.		yes
6.3	Advice on how to clean up a spill: Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: Sawdust, Kieselgur (diatomite), Sand, Universal binder	Advice on how to clean up a spill: Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: Kieselgur (diatomite), Sand, Universal binder	yes
8.2	- Eye/face protection: Use safety goggle with side protection.		yes
8.2		- Eye/face protection: Use safety goggle with side protection (EN 166).	yes
8.2	Hand protection: Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.		yes
8.2	Type of material: PVC: polyvinyl chloride, NR: natural rubber, latex		yes
8.2		- Hand protection: Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.	yes
8.2		Type of material: PVC: polyvinyl chloride, NR: natural rubber, latex	yes
8.2	Other protection measures: Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.	- Other protection measures:  Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.	yes
8.2	Respiratory protection: In case of inadequate ventilation wear respiratory protection	Respiratory protection: In case of inadequate ventilation wear respiratory protection: Full face mask (DIN EN 136).	yes
9.1	Melting point/freezing point: -15 °C	Melting point/freezing point: not determined	yes
9.1	Evaporation rate: not determined		yes
9.1		Kinematic viscosity: not determined	yes
9.1		Particle characteristics: no data available	yes
9.1		Oxidising properties: none	yes
9.1		Vapour pressure	yes
9.1		Density and/or relative density	yes
9.1	Vapour density: this information is not available		yes
9.1	Viscosity: not determined		yes

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9-1   Explosive properties   yes	Section	Former entry (text/value)	Actual entry (text/value)	Safety- relevant
Position of the information of t	9.1			yes
1.2.1   Aquatic boxing in the linking lobble   yes	9.1			yes
9.2	9.2		Other information	yes
### ### ### ### ### ### ### ### ### ##	9.2		Information with regard to physical hazard classes: hazard classes acc. to GHS (physical hazards): not relevant	yes
11.2   Change in the listing (lobble)	9.2			yes
There is no additional information.	11.1		Acute toxicity estimate (ATE): change in the listing (table)	yes
12.1   Aquatic toxically (chronic) of components of the mixture: change in the listing (lable)   yes	11.2			yes
Change in the lating (table)   12.2   Degradability of components of the mixture: Change in the lating (table)   12.3   Bioaccumulative potential of components of the mixture: Change in the lating (table)   12.7   Other adverse effects   Other adverse effects: Debt are not available.   14.1   ADR_ARID_ADN: UN 3082   yes   14.1   UN 3082   yes   14.1   UN 3082   yes   14.1   UN 3082   yes   14.1   UN 3082   yes   14.2   DEBT ARID CADE: UN 3082   yes   14.3   DEBT ARID CADE: UN 3082   yes   14.3   DEBT ARID CADE: UN 3082   yes   14.3   DEBT ARID CADE: UN 3082   yes   14.4   DEST ARID CADE: UN 3082   yes   3082   JADR_ARID CADE: UN 308	12.1		Aquatic toxicity (acute) of components of the mixture: change in the listing (table)	yes
12.3   Bioaccumulative potential of components of the mixture: change in the listing (table)   yes	12.1		Aquatic toxicity (chronic) of components of the mixture: change in the listing (table)	yes
Change in the listing (label)   Change in the listing (label)	12.2		Degradability of components of the mixture: change in the listing (table)	yes
Data are not available.	12.3		Bioaccumulative potential of components of the mixture: change in the listing (table)	yes
14.1	12.7	Other adverse effects		yes
14.1	14.1		ADR/RID/ADN: UN 3082	yes
14.2   ADR/RID/ADN:   yes	14.1			yes
ENVIRONMENTALLY HAZARPOUS SUBSTANCE, LIQUID, N.O.S.  14.2  IMDG-Code: ENVIRONMENTALLY HAZARPOUS SUBSTANCE, LIQUID, N.O.S.  14.2  ICAO-TI: Environmentally hazardous substance, liquid, n.o.s.  14.2  Technical name (hazardous ingredients): N,N-Dimethyl-2-hydroxypropylammoniumchloride-polymer solution  14.3  Class: 9 (environmentally hazardous)  ADR/RID/ADN: 9  14.3  IMDG-Code: 9  14.4  ADR/RID/ADN: yes  14.4  ADR/RID/ADN: yes	14.1			yes
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  14.2  ICAO-TI: Environmentally hazardous substance, liquid, n.o.s.  Yes  14.2  Technical name (hazardous ingredients): N,N-Dimethyl-2-hydroxypropylammoniumchloride-polymer solution  Yes  14.3  Class: 9 (environmentally hazardous)  ADR/RID/ADN: 9 yes  14.3  IMDG-Code: 9 yes  14.4  ADR/RID/ADN: 1CAO-TI: 9 yes  14.4  ADR/RID/ADN: 1CAO-TI: 9 yes  14.4  ADR/RID/ADN: 1CAO-TI: 9 yes	14.2		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,	yes
Environmentally hazardous substance, liquid, n.o.s.  Technical name (hazardous ingredients): N,N-Dimethyl-2-hydroxypropylammoniumchloride-polymer solution  14.3  Class: 9 (environmentally hazardous)  ADR/RID/ADN: 9  14.3  IMDG-Code: 9  14.4  ADR/RID/ADN: yes  ADR/RID/ADN: yes  14.4  IMDG-Code: 9  14.4  ADR/RID/ADN: yes	14.2		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,	yes
N,N-Dimethyl-2-hydroxypropylammoniumchloride-polymer solution   14.3   Class: 9 (environmentally hazardous)	14.2			yes
9 (environmentally hazardous)  ADR/RID/ADN: 9  14.3  IMDG-Code: 9  14.3  ICAO-TI: 9  ADR/RID/ADN: 11.4  ADR/RID/ADN: 11.4  IMDG-Code: 9  14.4	14.2		N,N-Dimethyl-2-hydroxypropylammoniumchloride-polymer solu-	yes
14.3   IMDG-Code: yes   9   14.3   ICAO-TI: yes   9   14.4   ADR/RID/ADN: III   14.4   IMDG-Code: yes   14.4   IMDG-Code: yes	14.3			yes
9 14.3 ICAO-TI: 9  14.4 ADR/RID/ADN: III  14.4 IMDG-Code: yes	14.3			yes
9  14.4  ADR/RID/ADN: yes  III  14.4  IMDG-Code: yes	14.3			yes
14.4 IMDG-Code: yes	14.3			yes
	14.4			yes
	14.4			yes

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### N,N-Dimethyl-2-hydroxypropylammoniumchloride-polymer solution

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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relevant
14.4		ICAO-TI:	yes
14.7	UN number: 3082		yes
14.7	Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		yes
14.7	Class: 9		yes
14.7	Packing group: III		yes
14.7	UN number: 3082		yes
14.7	Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		yes
14.7	Class: 9		yes
14.7	Packing group: III		yes
14.7	UN number: 3082		yes
14.7	Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.		yes
14.7	Class: 9		yes
14.7	Packing group: III		yes
14.7	Special provisions (SP): A97, A158, A197	Special provisions (SP): A97, A158, A197, A215	yes
15.1	Restrictions according to REACH, Annex XVII: None of the ingredients are listed.	Restrictions according to REACH, Annex XVII	yes
15.1	Water Framework Directive (WFD): None of the ingredients are listed.	Water Framework Directive (WFD)	yes
15.1	National inventories		yes
15.1		National inventories: change in the listing (table)	yes
15.1		List of pollutants (WFD): change in the listing (table)	yes
15.1		Regulation on persistent organic pollutants (POP): None of the ingredients are listed.	yes
16		Abbreviations and acronyms: change in the listing (table)	yes
16	Key literature references and sources for data:  Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).	Key literature references and sources for data:  Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).	yes
16		List of relevant phrases (code and full text as stated in section 2 and 3): change in the listing (table)	yes

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#### N,N-Dimethyl-2-hydroxypropylammoniumchloride-polymer solution

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#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations	
Acute Tox.	acute toxicity	
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)	
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)	
ADR/RID/ADN	Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)	
Aquatic Acute	hazardous to the aquatic environment - acute hazard	
Aquatic Chronic	hazardous to the aquatic environment - chronic hazard	
ATE	Acute Toxicity Estimate	
BCF	bioconcentration factor	
BOD	Biochemical Oxygen Demand	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
COD	chemical oxygen demand	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
EbC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control	
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval	
EC N₀	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)	
EINECS	European Inventory of Existing Commercial Chemical Substances	
ELINCS	European List of Notified Chemical Substances	
EmS	Emergency Schedule	
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air	
IMDG	International Maritime Dangerous Goods Code	
IMDG-Code	International Maritime Dangerous Goods Code	
index No	the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008	
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50% lethality during a specified time interval	
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval	
log KOW	n-octanol/water	
M-factor	means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present	
NLP	No-Longer Polymer	
PBT	Persistent, Bioaccumulative and Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)	
SVHC	Substance of Very High Concern	
VOC	Volatile Organic Compounds	
vPvB	very Persistent and very Bioaccumulative	

#### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H302	Harmful if swallowed.
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.

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#### N,N-Dimethyl-2-hydroxypropylammoniumchloride-polymer solution

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#### **Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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