

## PRODUCT SAFETY SHEET

The product doesn't meet the criteria for classification as hazardous in accordance with Regulation (EC) No 1272/2008, is not persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) as defined in Annex XIII of Regulation (EC) No 1907/2006 (REACH), and is not included in the ECHA candidate list of substances of very high concern. Provision of a Safety Data Sheet (SDS) is thus not mandatory (REACH Art. 31). This Product Safety Sheet (PSS) is a voluntary presentation of certain information that may assist the user in the handling of the substance. This PSS is provided in English.

### 1. Identification of the substance/preparation and of the company

<b>Identification</b>	ZSC-02001 Conditioner
<b>Product use</b>	SU3 Industrial uses. Uses of substances as such or in preparations at industrial sites PC39 Cosmetics, personal care products
<b>Company</b>	Gildewerk B.V. A hofmanweg 41 2031 BH Haarlem The Netherland

### 2. Hazards identification

Not classified according to the Regulation (EC) No 1272/2008

Health Hazards: May be irritating to the mucous membranes and upper respiratory tract.

Physio-chemical Hazards: None identified

Environmental Hazards: None identified

### 3. Composition/information on ingredients

Product	Casn°	EINECSn°	Concentration	Classification
2-Propen-1 aminium,N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide	26590-05-6	-	5-15%	Aquatic Chronic 3, H412

### 4. First-aid measures

<b>Ingestion</b>	Rinse mouth several times with water. Get medical attention immediately if symptoms occur.
<b>Inhalation</b>	Ensure supply of fresh air. No hazards which require special first aid measures.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In case of persistent skin irritation, consult a physician.
<b>Eye Contact</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Alternatively, rinse immediately with Diphoterine. Get medical attention if irritation persists.

## 5. Fire-fighting measures

<b>Recommended extinguishers</b>	Water, water spray, foam, carbon dioxide, dry powder
<b>Forbidden extinguishers</b>	No data available
<b>Combustion dangers</b>	Thermal decomposition may produce: hydrogen chloride gas, nitrogen oxides, carbon oxides, ammonia. Hydrogen cyanide may be produced in the event of combustion in an oxygen deficient atmosphere.
<b>Protection means</b>	Wear self-contained breathing apparatus for firefighting if necessary.

## 6. Accidental release measures

<b>Individual precautions</b>	See section 8. Avoid contact with the skin and the eyes. Spills produce extremely slippery surfaces. Do not touch or walk through spilled material.
<b>Environmental precautions</b>	Limit the leak using soil or sand. Avoid penetration into watercourses and sewers. If the product goes into them or it contaminates vegetation, warn the competent authorities.
<b>Cleaning methods</b>	<b><u>Small spills:</u></b> Do not flush with water. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.  <b><u>Large spills:</u></b> Do not flush with water. Dam up. Soak up with inert absorbent material. Clean up promptly by scoop or vacuum.  <b><u>Residues:</u></b> After cleaning, flush away traces with water. Soak up with inert absorbent material.

## 7. Handling and storage

<b>Handling precautions</b>	Avoid contact with skin and eyes. Renders surfaces extremely slippery when spilled. When using, do not eat, drink or smole.
<b>Storage conditions</b>	Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material. Incompatible with strong bases.
<b>Specific use</b>	None in particular.
<b>Indication of the rooms</b>	Provide appropriate exhaust ventilation at places where dust is formed

## 8. Exposure controls/personal protection

<b>Exposure limits values</b>	Not determined
<b>Exposure controls</b>	Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.
<b>Respiratory protection</b>	In case of formation of vapours/aerosols: used approved respirators such as by NIOSH (US) or CEN (EU)
<b>Hand protection</b>	Wear gloves. Wash thoroughly after handling.
<b>Eye protection</b>	Wear safety glasses with side-shields.
<b>Skin protection</b>	Wear clothes with full skin protection
<b>Environmental exposure controls</b>	Do not allow uncontrolled discharge of product into the environment.

## 9. Physical and chemical properties

<b>Appearance</b>	Liquid
<b>Color</b>	Clear to slightly yellow
<b>Odour</b>	None
<b>pH @ 20°C</b>	3.0 – 8.0
<b>Boiling point</b>	>100°C
<b>Flash point</b>	Does not flash
<b>Flammability</b>	Not applicable
<b>Explosive properties</b>	Not expected to be explosive based on the chemical structure.
<b>Oxidising properties</b>	Not expected to be oxidizing based on the chemical structure.
<b>Vapour pressure</b>	2.3 kPa @20°C
<b>Relative density</b>	1.0 – 1.2
<b>Solubility</b>	Completely miscible in water.
<b>Water solubility</b>	NA
<b>Partition coefficient: n-octanol/water</b>	<0
<b>Viscosity</b>	NA
<b>Vapour density</b>	0.804 g/L @20°C
<b>Evaporation rate</b>	NA
<b>RI @ 20°C</b>	NA

## 10. Stability and Reactivity

<b>Conditions to avoid</b>	Protect from frost, heat and sunlight.
<b>Substances to avoid</b>	Strong bases and oxidizing agents.
<b>Hazardous decomposition products</b>	Thermal decomposition may produce: hydrogen chloride gas, nitrogen oxides, carbon oxides, ammonia. Hydrogen cyanide may be produced in the event of combustion in an oxygen deficient atmosphere.

## 11. Toxicological information

<b>Acute oral toxicity</b>	LD50 (oral, rat) > 5000 mg/kg (estimated)
<b>Acute dermal toxicity</b>	LD50 (dermal, rat) >5000 mg/kg (estimated)
<b>Eye irritation</b>	Slightly irritating
<b>Skin irritation</b>	Non-irritating to skin
<b>Corrosivity</b>	Not determined
<b>Sensitization potential</b>	Not sensitizing to skin
<b>CMR effect</b>	Not determined
<b>CIR status</b>	Safe

## 12. Ecological information

Avoid discharge into environment

<b>Ecotoxicity</b>	LC50 (Fish, 96h) >100 mg/L (OECD 203) EC50 (Daphnia Magna, 48h) >100 mg/L (OECD 202)
<b>Mobility</b>	Not determined
<b>Persistence and degradability</b>	Not readily biodegradable
<b>Bioaccumulative potential</b>	Not determined
<b>Results of PBT assessment</b>	Not determined

## 13. Disposal considerations

If it is possible recover the product. Send to the authorized disposal or burning plants under controlled conditions. Follow domestic and national effective laws.

## 14. Transport information

Date 1° Version: 01/02/2016      Version: 02

Date Revision: 03/11/2020      Revision: 01

According to transport regulations – not dangerous.

## **15. Regulatory information**

Not classified according to the Regulation (EC) No 1272/2008

The product does not need to be labeled in accordance with EC directives or respective national laws.

## **16. Other information**

This material is for use only in fragrances, fragranced products or cosmetics.

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## PRODUCT DOSSIER

### 1. Product identity:

#### 1.1 Product group:

Conditioner

#### 1.2 Product description:

Cationic water soluble polymer. Improves detangling and combability in shampoos and conditioners

#### 1.3 Composition:

INCI	%	Cas n°
AQUA	85 - 95	7732-18-5
CTFA	%	Cas n°
WATER	85 - 95	7732-18-5

#### 1.4 Additives:

INCI	%	Cas n°
SODIUM BENZOATE	<0.5	532-32-1
POLYQUATERNIUM-7	5 - 15	26590-05-6

#### 1.5 Allergenic ingredients:

Not present

#### 1.6 Origin and function:

INCI (CTFA):	Origin	Function
AQUA	Mineral	SOLVENT
POLYQUATERNIUM-7	Synthetic	FILM FORMING
SODIUM BENZOATE	Synthetic	PRESERVATIVE

### 2. Production process information:

Solution polymerisation of cationic monomer (DADMAC) and acrylamide.

#### 2.1 Irradiation:

Yes  No

#### 2.2 Additional information:

See file: Not available.

### 3. Impurities:

#### 3.1 Heavy metals:

Name	Value
Total	< 20 ppm

#### 3.2 Pesticides:

Not expected to be present.

#### 3.3 CMR impurities:

Name	Value	Comments
Acrylamide	<= 1 ppm	Unavoidable due to type of production process

#### 3.4 Prohibited impurities:

Not expected to be present.

#### 3.5 Other impurities:

##### 3.5.1 Residual solvent

Not expected to be present.

##### 3.5.2 Residual monomers

Name	Value
DADMAC	<=13000 ppm

##### 3.5.3 Residual reactants

Not expected to be present.

##### 3.5.4 Polyacrylic Aromatic Hydrocarbons

Not expected to be present.

##### 3.5.5 Others

Name	Value
Sodium Citrate	<10000 ppm

**4. Physio-chemical characteristics:**

**4.1 Specification**

Parameter	Specification
Appearance 20°C	Clear liquid
Colour	Colorless
Odour	Characteristic, mild aldehyde
Solids content	8 - 10 %
pH	3.3 - 4.5
Bulk viscosity	7500 - 15000 cPs
Residual Acrylamide	<= 1 ppm

**4.2 Typical Microbiology:**

Parameter	Value
Total Vival Count (TVC)	<100 CFU/g
Yeast	<10 CFU/g
Moulds	<10 CFU/g
Candida Albicans	Absent / 1g
Escherichia Coli	Absent / 1g
Pseudomonas Aeruginosa	Absent / 1g
Staphylococcus Aureus	Absent / 1g

**4.3 Fatty acids distribution:**

-

**4.4 Typical Properties:**

No information

**4.5 Quality of the product:**

Type	Details
Natural Index (acc. to ISO 16128)	NI=0.95
Natural Origin Index (acc. to ISO 16128)	NOI=0.95
Organic Index (acc. to ISO 16128)	OI=0

## 5. Formulation guideline:

### 5.1 Solubility:

Name	Solubility
Water	Soluble
Glycerine	Insoluble
Ethanol	Insoluble
Propylene glycol	Insoluble
Octylstearate	Insoluble
Mineral oil	Insoluble
Soya oil	Insoluble
Cyclomethicone	Insoluble
Dimethicone	Insoluble
Oil	Insoluble

### 5.2 Compatibility:

Name	Compatibility
Carbomer	Compatible
Colourants - oil soluble	Compatible
Colourants - water soluble	Compatible
DHA	Incompatible
Electrolytes +	Compatible
Electrolytes ++	Compatible
Electrolytes Al/Zr +++	Compatible
Essential oils	Compatible
Hydrogen peroxide	Compatible
Mineral oils	Compatible
Oxidizing agents	Compatible
Parfum	Compatible
Peroxides	Compatible
Plant extracts	Compatible
Preservatives	Compatible
Reducing agents	Compatible
Silicone oils	Compatible
Synthetic oils	Compatible
Thioglycolates	Compatible
Vegetable oils	Compatible
Vitamines	Compatible

### 5.3 pH range:

3.0 - 10.0

### 5.4 Maximum heating temperature:

< 80 °C





[www.gildewerk.com](http://www.gildewerk.com)

## Conditioner

ZSC-02001

### 5.5 Incorporation:

Product has to be added to the water phase.

### 5.6 Dosage:

Application	%
Shampoo	0.5 - 5
Conditioner rinse off	1 - 8
Conditioner leave in	0.1 - 0.5

### 5.7 Additional information:

None

## 6. Product properties:

- Conditioning of hair and skin

## 7. Product application:

- Shampoos
- Conditioners
- Hair masks

## 8. Product claims:

-

## 9. Logistics:

### 9.1 Shelf life:

24 months

### 9.2 Storage information:

Store in a dry, cool and well-ventilated area below 35°C. Keep in original, tightly sealed containers, away from heat and direct sunlight.

### 9.3 Customs Tariff Code (HS)

29239000

### 9.4 Country of origin:

GB

## 9.5 Packages information:

Quantity (kg)	Type:	Package material:	Amount EURO Pallet	Amount Block Pallet
1 kg	Bottle	PE	NR	NR
5 kg	JC	HDPE	NR	NR
30 kg	DRUM	HDPE	480 kg	720 kg

## 10. Regulation:

### 10.1 Cosmetic regulation status

Country	Status	Comments
EU	Compliant	Regulation (EC) No 1223/2009
USA	Compliant	FD&C Act – 21 CFR 700 to 740
Japan	Compliant	ISHL- Industrial Safety and Health Law
China	Compliant	IECSC- Chinese Chemical Inventory of Existing Chemical Substances
Canada	Compliant	DSL - Canadian Domestic Substances List
Korea	Compliant	ECL- Korean Existing Chemicals List
Australia	Compliant	AICS - Australian Inventory of Chemical Substances
US California	Compliant	California Proposition 65

### 10.2 REACH registration status

Ingredient	Status
AQUA	Exempt: Listed in Annex IV of Regulation 1907/2006.
POLYQUATERNIUM-7	Exempt: Polymer - exempt according to Article 2, paragraph 9. Monomers are exempt or registered.
SODIUM BENZOATE	Registered: 01-2119460683-35

## 11. Toxicological profile:

No information available.

## 12. IFRA Statements:

Not relevant.

## 13. Statements:

Allergens                      The substances suspected to be allergenic and listed in Annex III of EC 1223/2009 are below detection limit.

CMR	Based on our current knowledge of the production process, the used raw materials, the produced by products, the impurities and the equipment used we do not expect CMR substances 1A, 1B according to EC 1272/2008 Annex VI present in the product. The product contains CMR2 substances which are in compliance with article 15.1 of EC 1223/2009. The product is fully in compliance with article 15 of EC 1223/2009.
Animal Testing	This raw material has not been tested on animals for cosmetic purposes after the date 11/03/2009. This raw material is in compliance with article 18 EC 1223/2009.
Annex II Ingredients	This raw material does not contain any of the substances listed in Annex II ('List of substances prohibited in cosmetic products') of the European Commission's Cosmetic Ingredient Database (CosIng).
BSE/TSE	This raw material is not of animal origin. During production, storage and transport there is no contact with any bovine or other animal material and cross contamination is excluded. Therefore the requirements of Comm. Dir. 1999/82/EEC, CPMP/BWP/1230/98, Ph.EUR. Suppl. 2000:5.2.8 are not applicable.
Children Exploitation	No children are involved in the production process of this material. We strictly prohibit the use of child labour under the age of 15 or under the age for completion of compulsory education, whichever is higher, per the ILO Minimum Age Convention No. 138 (1973) and prohibit work that would harm the health, safety or morals of children per the ILO Worst Forms of Child Labor Convention No. 182 (1999).
CITES Vegetal Species	This raw material does not contain components regulated by CITES Vegetal Species.
Conflict Minerals	This raw material does not contain Conflict Minerals from countries which are known as conflict areas mentioned by the Dodd-Frank Act Section 1502. We are in a constant contact with our suppliers to ensure that the requirements of Conflict Free Minerals are fulfilled within the supply chain. It is our intention not to accept tin, tantalum, tungsten, gold or their derivatives known to originate from conflict areas.
CoRAP	This raw material does not contain any substances included in the CoRAP list.
Gluten	This raw material is free from gluten.
GMO	This raw material is not of vegetable origin. Therefore the requirements of the 1829/2003/EC regulation do not apply.

Halal	<p>All ingredients used in the production process of this raw material are non-animal based and/or do not contain any animal impurities.</p> <p>The following ingredients have been explicitly excluded during the complete production process:</p> <ul style="list-style-type: none"><li>- swine/pork and its by-products, or ingredients based on swine/pork,</li><li>- animals improperly slaughtered or dead before slaughtering,</li><li>- animals killed in the name of anyone else than Allah,</li><li>- ethanol (alcohol) or drugs,</li><li>- carnivorous animals,</li><li>- birds of prey,</li><li>- land animals without external ears,</li><li>- blood, blood by products and blood derived ingredients.</li></ul> <p>This raw material is not Halal certified.</p>
Impurities	<p>The presence of any impurities is non-intended and technically unavoidable in good manufacturing practice.</p>
Kosher	<p>This raw material is not derived from, nor does it contain pork and/or pork derivatives. This product is not Kosher certified.</p>
Nagoya	<p>The best of our knowledge, this raw material is conform to the Nagoya Protocol Regulation (EU) N°511/2014 (EU CM-ABS Regulation) on access to genetic resources and the fair and equitable sharing of benefit arising from their utilization.</p>
Nanomaterials	<p>This raw material is not classified as nano-material according to COLIPA's guidance SCCS/1484/12, EU Cosmetic regulation 1223/2009, French Decree n° 2012-232</p>
Palm Origin	<p>This raw material does not contain and is not derived from palm and/or palm kernel oil.</p>
SVHC	<p>This raw material contains substances listed as Substances of Very High Concern under the REACH Regulation (Residual Acrylamide).</p>
TSCA	<p>This raw material is not listed in the TSCA Chemical Substance Inventory.</p>
Vegan	<p>This raw material neither contains animal and/or animal derived ingredients, nor has it been in contact with animal and/or animal derived ingredients. To the best of our knowledge, this raw material fulfills the requirements set by the Vegan Society.</p>
VOC	<p>This raw material does not contain substances listed as Volatile Organic Compounds.</p>

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