

**Safety Data Sheet according to Regulation (EC) No 1907/2006**

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V000.0

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Replaces version from: 06.01.2006

**GLASS CLEANER**

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

**1.1. Product identifier**  
GLASS CLEANER

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

Intended use:  
Hard Surface Cleaners (HSC)

**1.3. Details of the supplier of the safety data sheet**

DUTHOO NV  
Street : ESSERSTRAAT 3  
Postal code/city : BE - 8550 ZWEVEGEM  
Telephone : +32 (0)56 360 774  
Telefax : +32 (0)56 360 776  
E-mail : info@duthoo.eu  
www.duthoo.eu

**1.4. Emergency telephone number**

Anti poisoning center in Belgium, Tel: +32 (0)70 245245

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

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

Eye Irrit. 2  
H319 Causes serious eye irritation.

**2.2. Label elements**

**Label elements (CLP):**

**Hazard pictogram:**



**Signal word:**

Warning

**Hazard statement:**

H319 Causes serious eye irritation.

EUH208 Contains Isothiazolinone mixture 3:1 (CIT/MIT). May produce an allergic reaction.

**Precautionary statement:** P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P280 Wear eye protection.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3. Other hazards

None if used properly.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

### 3.2. Mixtures

#### Hazardous substances according to CLP (EC) No 1272/2008:

Hazardous substances CAS-No.	EINECS	REACH-Reg No.	Content	Classification
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts 85586-07-8	287-809-4	01-2119489463-28	>= 1- < 5 %	Skin irritation 2; Dermal H315 Serious eye damage 1 H318 Acute toxicity 4 H302 Chronic hazards to the aquatic environment 3 H412
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	500-234-8	01-2119488639-16	>= 1- < 5 %	Skin irritation 2; Dermal H315 Serious eye damage 1 H318 Chronic hazards to the aquatic environment 3 H412
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9			>= 1- < 5 PPM	Acute toxicity 2 H330 Acute toxicity 3 H301 Acute toxicity 2 H310 Skin corrosion 1B H314 Skin sensitizer 1A H317 Acute hazards to the aquatic environment 1 H400 Chronic hazards to the aquatic environment 1 H410

For full text of the H - Phrases indicated by codes only see Section 16 "Other information".

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

In case of adverse health effects seek medical advice.

#### Inhalation:

Move to fresh air. In case of breathing difficulties seek immediate medical advice.

**Skin contact:**

Rinse with water. Take off all clothing contaminated by the product.

**Eye contact:**

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

**Ingestion:**

Do not induce vomiting, seek medical advice immediately.  
Rinse mouth with water, (only if the person is conscious).

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

After inhalation: Irritation of the respiratory tract, coughing. Inhalation of larger amounts may cause laryngospasm with shortness of breath.

After skin contact: Temporary irritation of the skin (redness, swelling, burning).

After ingestion: Ingestion may cause irritation of mouth, throat, digestive tract, diarrhea and vomiting. Vomit may get into the lungs causing damage (aspiration).

After eye contact: Moderate to strong irritation of the eyes (redness, swelling, burning, watering eyes).

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

After inhalation: No special action.

After skin contact: No special action.

After eye contact: No special action.

After ingestion: Do not induce vomiting. Single administration of a non-carbonated beverage (water or tea).

After ingestion: In case of ingestion of larger or unknown quantities administer a defoamer (Dimeticon or Simeticon).

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Suitable extinguishing media:

Water spray jet (if possible, avoid full jet). Adapt the fire-fighting measures to the environmental conditions.

Commercially available extinguishers are suitable for fighting incipient fires. The product itself does not burn.

**Extinguishing media which must not be used for safety reasons:**

None

**5.2. Special hazards arising from the substance or mixture**

Hazardous combustion products can be formed by pyrolysis and/or carbon monoxide.

**5.3. Advice for firefighters**

Use personal protective equipment and self-contained breathing apparatus.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes.

Ensure adequate ventilation.

Danger of slipping on spilled product.

If large amounts are released contact the fire service.

**6.2. Environmental precautions**

Do not empty into drains / surface water / ground water.

**6.3. Methods and material for containment and cleaning up**

Remove mechanically. Rinse away residue with plenty of water.

**6.4. Reference to other sections**

See advice in section 8

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

No special measures required if used properly.

**Hygiene measures:**

Protective equipment only required in case of industrial use or for large packs (not for household packs)  
Avoid contact with skin and eyes. Remove soiled or soaked clothing immediately. Wash off any contamination that gets onto the skin with plenty of water, skin care.

**7.2. Conditions for safe storage, including any incompatibilities**

Store dry at between +5 and +40°C.  
Consider national regulations.

**7.3. Specific end use(s)**

Hard Surface Cleaners (HSC)

## SECTION 8: Exposure controls/personal protection

Only relevant for professional/industrial use

**8.1. Control parameters**

Valid for  
Belgium

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Remarks
ETHYL ALCOHOL 64-17-5	1.000	1.907	Time Weighted Average (TWA):		BE/OEL

**8.2. Exposure controls**

Respiratory protection:  
Not needed.

**Hand protection:**

For the contact with product protective gloves made from Spezial-Nitril (material thickness > 0.1 mm, break through time > 480 min class 6) are recommended according to EN 374. In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. We recommend to change single-use protective gloves periodical and a hand care plan in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

**Eye protection:**

Wear tight fitting goggles.

**Skin protection:**

Protective clothing against chemicals. Observe manufacturer's instructions.

## SECTION 9: Physical and chemical properties

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

The following data apply to the whole mixture.

a) Appearance	liquid low viscosity turquoise
b) Odor	citric
c) Odour threshold	No data available / Not applicable
d) pH (20 °C (68 °F); Conc.: 100 % product; Solvent: None)	10,8 - 11,4
e) Melting point	No data available / Not applicable
f) Initial boiling point and boiling range	No data available / Not applicable
g) Flash point	58 °C (136.4 °F); not an agreed U-W method The product does not support combustion in any way.
h) Evaporation rate	No data available / Not applicable
i) Flammability (solid , gas)	No data available / Not applicable
j) Upper / lower flammability or explosive limits	No data available / Not applicable
k) Vapour pressure	No data available / Not applicable
l) Vapor density	No data available / Not applicable
m) Relative density Density (20 °C (68 °F))	0,990 - 1,000 g/cm <sup>3</sup>
n) Solubility (ies)	soluble in water
o) Partition coefficient: n-octanol/water	No data available / Not applicable
p) Auto-ignition temperature	No data available / Not applicable
q) Decomposition temperature	No data available / Not applicable
r) Viscosity	No data available / Not applicable
s) Explosive properties	No data available / Not applicable
t) Oxidising properties	No data available / Not applicable

### 9.2. Other information

Not applicable

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None if used for intended purpose.

### 10.2. Chemical stability

Stable under normal conditions of temperature and pressure.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

No decomposition if used according to specifications.

### 10.5. Incompatible materials

None if used properly.

### 10.6. Hazardous decomposition products

No decomposition if used according to specifications.

## SECTION 11: Toxicological information

**11.1. Information on toxicological effects****Acute oral toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts 85586-07-8	Acute toxicity estimate (ATE)	500 mg/kg		Expert judgement
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts 85586-07-8	LD50	500 - 2.000 mg/kg	rat	EU Method B.1 bis (Acute Oral Toxicity)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	LD50	2.870 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	LD50	66 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)

**Acute dermal toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	LD50	87,12 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

**Acute inhalative toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	LC50	0,171 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts 85586-07-8	highly irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious eye damage/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	highly irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	Category 1 (irreversible effects on the eye)		rabbit	not specified

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Sulfuric acid, mono-C12- 14-alkyl esters, sodium salts 85586-07-8	not sensitising	Guinea pig maximisation test	guinea pig	Magnusson and Kligman Method
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	sensitising	Mouse local lymphnode assay (LLNA)	mouse	not specified

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	ambiguous	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	positive	in vitro mammalian chromosome aberration test	with and without		EPA OPP 84-2 (Mutagenicity Testing)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	positive	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	not applicable		OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	negative	oral: gavage		mouse	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	oral: gavage		mouse	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	oral: feed		Drosophila melanogaster	OECD Guideline 477 (Genetic Toxicology: Sex-linked Recessive Lethal Test in Drosophila melanogaster)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	oral: gavage		rat	OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	oral: gavage		rat	EPA OPP 84-2 (Mutagenicity Testing)

**Carcinogenicity**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	not carcinogenic	oral: drinking water	2 y daily	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	NOAEL P 300 mg/kg NOAEL F1 300 mg/kg	Two generation study	oral: drinking water	rat	OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOAEL P 30 ppm NOAEL F1 300 ppm NOAEL F2 300 ppm	Two generation study	oral: drinking water	rat	OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)

**STOT-single exposure:**

No data available.

**STOT-repeated exposure::**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	NOAEL 225 mg/kg	oral: gavage	90 days once daily, 5 times a week	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOAEL 16,3 mg/kg	oral: drinking water	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOAEL 0.34 mg/m <sup>3</sup>	inhalation: aerosol	90 d 6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOAEL 2,625 mg/kg	oral: drinking water	90 d 6 h/d	rat	EPA OPP 82-3 (Subchronic Dermal Toxicity 90 Days)

**Aspiration hazard:**

No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts 85586-07-8	LC50	3,6 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	LC50	7,1 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	NOEC	0,14 mg/l	28 d	Oncorhynchus mykiss	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	LC50	0,22 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOEC	0,098 mg/l	28 d	Oncorhynchus mykiss	OECD Guideline 210 (fish early lite stage toxicity test)

#### Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts 85586-07-8	EC50	5 mg/l	24 h	Daphnia magna	not specified
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	EC50	7,2 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	EC50	0,12 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

#### Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	NOEC	0,72 mg/l	21 d	Daphnia magna	OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOEC	0,0036 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

#### Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts 85586-07-8	EC50	> 20 mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	EU Method C.3 (Algal Inhibition test)
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts 85586-07-8	NOEC	0,6 mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	EU Method C.3 (Algal Inhibition test)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	EC50	27 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	NOEC	0,93 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	EC50	0,0052 mg/l	48 h	Skeletonema costatum	OECD Guideline 201 (Alga, Growth Inhibition Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOEC	0,00064 mg/l	48 h	Skeletonema costatum	OECD Guideline 201 (Alga, Growth Inhibition Test)

### Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts 85586-07-8	EC0	90 mg/l	30 min		not specified
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	EC0	360 mg/l	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	EC20	0,97 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

### 12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts 85586-07-8	readily biodegradable	aerobic	96 - 100 %	28 d	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts 85586-07-8		aerobic	> 93 %	20 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	readily biodegradable	aerobic	77 - 79 %	28 d	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	inherently biodegradable	aerobic	100 %	28 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	readily biodegradable	aerobic	> 60 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

### 12.3. Bioaccumulative potential

Does not bioaccumulate.

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	3,6			calculation	QSAR (Quantitative Structure Activity Relationship)

#### 12.4. Mobility in soil

Hazardous substances CAS-No.	LogPow	Temperature	Method
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts 85586-07-8	<= -2,42	20 °C	not specified
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	0,3	23 °C	OECD Guideline 123 (Partition Coefficient (1-Octanol / Water), Slow-Stirring Method)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	-0,71 - 0,75	20 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

#### 12.5. Results of PBT and vPvB assessment

Hazardous substances CAS-No.	PBT / vPvB
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts 85586-07-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

#### 12.6. Other adverse effects

Other adverse effects of this product for the environment are not known to us.

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product disposal:

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

Only completely empty containers are to be disposed of as recoverable materials.

**SECTION 14: Transport information**

- 14.1. UN number**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.2. UN proper shipping name**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.3. Transport hazard class(es)**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.4. Packing group**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.5. Environmental hazards**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.6. Special precautions for user**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**  
not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Declaration of ingredients according to Detergent Regulation 648/2004/EC**

< 5 %	anionic surfactants
Further ingredients	Perfumes
	Amyl cinnamal
	Limonene
	preservation agents
	Dimethylol glycol
	Methylchloroisothiazolinone and Methylisothiazolinone

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

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**SECTION 16: Other information**

H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H310 Fatal in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H330 Fatal if inhaled.  
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.

**Further information:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

This Safety Data Sheet contains changes from the previous version in Section(s):

2, 3, 15, 16