



# SAFETY DATA SHEET

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

Date of update: 22.02.2023

Version: 3.0/EN

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

### 1.1 Product identifier

Trade name: **2 Phases - Green apple**

UFI 11Y2-H0MY-600P-X0DK

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

Relevant identified uses: air freshener.

Uses advised against: not determined.

### 1.3 Details of the supplier of the safety data sheet

Manufacturer: **Dr. MARCUS International Sp. z o.o. Sp. k.**

Address: Aleja Wojska Polskiego 2C, 62-800 Kalisz, Poland

Telephone/Fax number: + 48 62 760 07 00 / +48 62 760 07 59

E-mail address for a competent person responsible for SDS: [biuro@thetaconsulting.pl](mailto:biuro@thetaconsulting.pl)

### 1.4 Emergency telephone number

112

## Section 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Skin Sens. 1 H317, Acute Chronic 3 H412**

May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

Hazard pictograms and signal words



**WARNING**

Hazardous components placed on the label

Contains: 3,7-dimethyloctan-3-ol; 2,4-dimethylcyclohex-3-ene-1-carbaldehyde; 9-decen-2-one; delta-damascone; 1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one.

Hazard statements

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

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

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 Dispose of contents/container to properly labelled waste containers according to national law.

### 2.3 Other hazards

The product contains decamethylcyclopentasiloxane, which meet the PBT and vPvB, criteria in accordance with Annex XIII to the REACH Regulation.



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The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

## Section 3: Composition/information on ingredients

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

#### Colorless phase

CAS: 57-55-6 EC: 200-338-0 Index number: — REACH number: 01-2119456809-23-XXXX	<u>propane-1,2-diol</u> Substance is not classified as hazardous	5 - 20 %
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#### Color phase

CAS: 541-02-6 EC: 208-764-9 Index number: — REACH number: —	<u>decamethylcyclopentasiloxane</u> Substance is not classified as hazardous	< 30 %
CAS: 34590-94-8 EC: 252-104-2 Index number: — REACH number: —	<u>(2-methoxymethylethoxy)propanol<sup>1)</sup></u> substance is not classified as hazardous	< 12 %
CAS: 88-41-5 EC: 201-828-7 Index number: — REACH number: 01-2119970713-33-XXXX	<u>o-tert-butyl cyclohexylacetale</u> Aquatic Chronic 2 H411	< 12 %
CAS: 104-67-6 EC: 203-225-4 Index number: — REACH number: 01-2119959333-34-XXXX	<u>undecan-4-olide</u> Aquatic Chronic 3 H412	< 3 %
CAS: 78-69-3 EC: 201-133-9 Index number: — REACH number: 01-2119969447-21-XXXX	<u>3,7-dimethyloctan-3-ol</u> Skin Irrit. 2 H315, Skin Sens. 1B H317, Eye Irrit. 2 H319	< 3 %
CAS: 68912-13-0 EC: 272-805-7 Index number: — REACH number: 01-2119969447-21-XXXX	<u>3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl propionate</u> Aquatic Chronic 2 H411	< 3 %
CAS: 68039-49-6 EC: 268-264-1 Index number: — REACH number: 01-2119982384-28-XXXX	<u>2,4-dimethylcyclohex-3-ene-1-carbaldehyde</u> Skin Irrit. 2 H315, Skin Sens. 1B H317, Eye Irrit. 2 H319, Aquatic Chronic 2 H411	< 0,6 %



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CAS: 35194-30-0 EC: — Index number: — REACH number: 01-2120921116-65-XXXX	<u>9-decen-2-one</u> Skin Sens. 1B H317, STOT SE 3 H336	< 0,6 %
CAS: 57378-68-4 EC: 260-709-8 Index number: — REACH number: 01-2119535122-53-XXXX	<u>delta-damascone</u> Acute Tox. 4 H302, Skin Irrit. 2 H315, Skin Sens. 1A H317, Aquatic Acute 1 H400 (M=1), Aquatic Chronic 1 H410 (M=1)	< 0,06 %
CAS: 23696-85-7 EC: 245-833-2 Index number: — REACH number: 01-2120105798-49-XXXX	<u>1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one</u> Skin Irrit. 2 H315, Skin Sens. 1A H317, Aquatic Chronic 2 H411	< 0,06 %

1) Substance with occupational exposure limits defined on European Union level.

Full text of each relevant H phrase is given in section 16 of SDS.

## Section 4: First aid measures

### 4.1 Description of first aid measures

#### Skin contact

Take off all contaminated clothing. Wash out contaminated skin thoroughly with plenty of water and soap. Consult a doctor if disturbing symptoms appear.

#### Eye contact

Protect non-irritated eye, remove contact lenses. Wash the contaminated eyes with plenty of water for 10-15 minutes. Avoid powerful water stream – risk of corneal damage. Consult an ophthalmologist if disturbing symptoms appear.

#### Ingestion

Consult a doctor, show the container or label. Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person.

#### Inhalation

Remove to fresh air, keep warm and calm. Consult a doctor, if disturbing symptoms appear.

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

#### Skin contact

The product may cause redness, allergic reaction and drying.

#### Eye contact

The product may cause burning sensation, tearing, eye redness.

#### Ingestion

The product may cause nausea, abdominal pain.

#### Inhalation

High concentration of vapours and mists may cause headaches and dizziness.

#### Effects of exposure

No known significant effects or critical hazards with the correct use of the product.

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

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Treat symptomatically.



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## Section 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: adapt the extinguishing media to surrounding materials.

Unsuitable extinguishing media: water jet – risk of the propagation of the flame.

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

During the fire may produce harmful gases containing e.g. carbon monoxides. Do not inhale combustion products, they can be dangerous for human health.

### 5.3 Advice for firefighters

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. Collect used extinguishing media. Do not allow the extinguishing agents to enter sewage, surface and ground waters.

## Section 6: Accidental release measures

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

Immediately wipe away the spilled product - risk of slipping. Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. Ensure that only the trained personnel removes the effects of the accident. In case of large spills, isolate the exposed area. Use personal protective equipment.

### 6.2 Environmental precautions

Do not allow the product to get into the sewage system, surface waters and soil. In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services.

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

Collect the damaged containers mechanically. Collect the spilled product with incombustible absorbing materials (e.g. sand, earth, universal binding agents) and place it in labeled waste containers. Proceed in accordance with applicable regulations. Clean and ventilate the contaminated place.

### 6.4 Reference to other sections

Appropriate conduct with waste product – see section 13. Personal protective equipment – see section 8.

## Section 7: Handling and storage

### 7.1 Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Use personal protective equipment. Before break and after work wash hands carefully. Keep the unused containers tightly closed. Do not eat, drink and smoke during the work. Avoid contact with skin and eyes.

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

Keep only in properly labeled, tightly closed containers in a dry, cool and well ventilated place. Keep away from incompatible materials (see subsection 10.5) and food and feed for animals. Protect from direct sunlight.

### 7.3 Specific end use(s)

No information about applications other than those specified in section 1.2.

## Section 8: Exposure controls/personal protection

### 8.1 Control parameters

Specification	TWA 8 hour	STEL 15 min
(2-methoxymethylethoxy)propanol [CAS 34590-94-8]	308 mg/m <sup>3</sup>	-



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The table above shows the maximum workplace concentration values at the European Union level.

Legal Basis: Commission Directive 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU.

Please check any national occupational exposure limit values in your country

## Recommended control procedures

Procedures concerning the control over the hazardous components' concentrations in the air and over the air quality in the workplace should be used - if they are available and justified for the position - in accordance with the European Standards, with the conditions within the exposure place and a proper test methodology adapted to the working conditions.

## DNEL values for propane-1,2-diol [CAS 57-55-6]

Exposure route	Exposure scheme	DNEL (employees)
inhalation	Long-term, system effects	168 mg/m <sup>3</sup>
inhalation	Long-term, local effects	10 mg/m <sup>3</sup>
Exposure route	Exposure scheme	DNEL (consumers)
inhalation	Long-term, system effects	50 mg/m <sup>3</sup>
inhalation	Long-term, local effects	10 mg/m <sup>3</sup>

## PNEC values for propane-1,2-diol [CAS 57-55-6]

	PNEC
fresh water	260 mg/l
marine water	26 mg/l
fresh water sediment	572 mg/kg dry matter
marine water sediment	57,2 mg/kg dry matter
soil	50 mg/kg
sporadic release	183 mg/l
sewage treatment plant	20 000 mg/l

## 8.2 Exposure controls

### Appropriate engineering controls

Use the product in accordance with good occupational hygiene and safety practices. Do not eat, drink and smoke during the work. Before break and after work wash hands carefully. Ensure adequate general and/or local ventilation at the workplace. Use personal protective equipment.

### Individual protection measures, such as personal protective equipment

The necessity to use and the selection of appropriate personal protective equipment should take into account the type of risk posed by the product, working conditions and the way of handling the product. The personal protective equipment used must meet the requirements of Regulation (EU) 2016/425 and the relevant standards. The employer is obliged to provide protection measures appropriate to the activities performed and meeting all quality requirements, including their maintenance and cleaning. Any contaminated or damaged PPE must be replaced immediately.

### Hand protection

Use protective gloves resistant to chemicals according to EN 374 standard. Select the material for the gloves individually at the workplace.

The material that the gloves are made of must be impenetrable and resistant to the product's effects. The selection of material must be performed with consideration of breakthrough time, penetration speed and degradation. Moreover, the selection of proper gloves depends not only on the material, but also on other quality features and changes depending on the manufacturer. The producer should provide detailed information regarding the exact breakthrough time.

### Body protection

Use skin protection measures adequate to the existing thermal, chemical or mechanical hazards.

### Eyes protection

If there is a risk of eye contamination, use safety glasses in accordance with EN 166.



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## Respiratory protection

Not required if the ventilation is adequate.

## Thermal hazards

Not applicable.

## Environmental exposure controls

Prevent direct release to drains/ surface waters. Do not contaminate surface waters and drainage ditches with chemicals or used containers. Released product or uncontrolled spills to surface waters should be reported to appropriate authorities in accordance with local and national legislations. Dispose of as chemical waste, in accordance with local and national legislation.

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless/green
Odour:	characteristic, pleasant
Melting point/freezing point:	-60 °C (for propane-1,2-diol)
Boiling point or initial boiling point and boiling range:	188 °C (for propane-1,2-diol)
Flammability:	non-flammable
Lower and upper explosion limit:	2,6 % / 12,5 % vol. (for propane-1,2-diol)
Flash point:	99 °C (for propane-1,2-diol)
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH:	not determined
Kinematic viscosity:	not determined
Solubility:	completely dissolves in water
Partition coefficient n-octanol/water (log value):	not determined
Vapour pressure (20 °C):	7 Pa (for propane-1,2-diol)
Density and/or relative density:	not determined
Relative vapour density:	not determined
Particle characteristics:	not applicable

### 9.2 Other information

No additional test results.

## Section 10: Stability and reactivity

### 10.1 Reactivity

Product is slight reactive. It does not go under hazardous polymerization. See also subsection 10.3-10.5.

### 10.2 Chemical stability

The product is stable under normal conditions of use and storage.

### 10.3 Possibility of hazardous reactions

Hazardous reactions are not known.

### 10.4 Conditions to avoid

Avoid sources of heat, direct sunlight.

### 10.5 Incompatible materials

Strong oxidants.



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## 10.6 Hazardous decomposition products

Not known.

## Section 11: Toxicological information

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

Information on acute and / or delayed effects of exposure was determined on the basis of information on product classification and / or toxicological tests as well as the knowledge and experience of the manufacturer.

#### Components toxicity

propane-1,2-diol [CAS 57-55-6]

LD<sub>50</sub> (oral) > 2 000 mg/kg

LD<sub>50</sub> (skin) > 2 000 mg/kg

LC<sub>50</sub> (inhalation) > 20 mg/l

#### Mixture toxicity

##### Acute toxicity

ATE<sub>mix</sub> (oral) > 2000 mg/kg

The acute toxicity estimate (ATE<sub>mix</sub>) was determined using the appropriate conversion value from Table 3.1.2 in Annex I to CLP Regulation as amended. Based on available data, the classification criteria are not met.

##### Skin corrosion/irritation

Based on available data, the classification criteria are not met..

##### Serious eye damage/irritation

Based on available data, the classification criteria are not met.

##### Respiratory or skin sensitisation

May cause an allergic skin reaction.

##### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

##### Carcinogenicity

Based on available data, the classification criteria are not met.

##### Reproductive toxicity

Based on available data, the classification criteria are not met.

##### STOT-single exposure

Based on available data, the classification criteria are not met.

##### STOT-repeated exposure

Based on available data, the classification criteria are not met.

##### Aspiration hazard

Based on available data, the classification criteria are not met.

##### Information on likely routes of exposure

Routes of exposure: eye contact, skin contact, inhalation, ingestion. For more information on the impact of each possible route of exposure, see subsection 4.2.

##### Symptoms related to the physical, chemical and toxicological characteristics

See subsection 4.2.

##### Delayed and immediate effects as well as chronic effects from short and long-term exposure

See subsection 4.2.



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## 11.2 Information on other hazards

### Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

### Other information

Not known.

## Section 12: Ecological information

### 12.1 Toxicity

#### Toxicity of components

##### propane-1,2-diol [CAS 57-55-6]

Acute toxicity for fish	LC <sub>50</sub>	51 400 mg/l/96 h ( <i>Pimephales promelas</i> )
Acute toxicity for daphnia	EC <sub>50</sub>	10 000 mg/l/24 h ( <i>Daphnia magna</i> )
Acute toxicity for algae	EC <sub>50</sub>	19 100 mg/l/336 h ( <i>Selenastrum capricornutum</i> )

#### Mixture toxicity

Harmful to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

propane-1,2-diol [CAS 57-55-6]: biodegradable after 28 days.

### 12.3 Bioaccumulative potential

propane-1,2-diol [CAS 57-55-6]: bioaccumulation potential low (log Po/w = -0,92, BCF = 1)

### 12.4 Mobility in soil

Mobility of components of the mixture depends on their hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions, seasons and soil organisms.

### 12.5 Results of PBT and vPvB assessment

The product contains decamethylcyclopentasiloxane, which meet the PBT and vPvB, criteria in accordance with Annex XIII to the REACH Regulation.

### 12.6 Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

### 12.7 Other adverse effects

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

## Section 13: Disposal considerations

### 13.1 Waste treatment methods

#### Disposal methods for the product

The waste product should be recovered or disposed of in authorized incineration plants or waste disposal / neutralization plants, in accordance with applicable regulations. Do not empty into drains.





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## Disposal methods for used packing

Reuse / recycle / eliminate empty containers in accordance with the applicable legislation. Only completely empty containers can be reused.

## Recommended waste codes

The waste code should be assigned at the place of its formation.

Legal basis: Directive 2008/98/EC as amended, 94/62/EC as amended.

## Section 14: Transport information

### 14.1 UN number or ID number

Product is not classified as dangerous during transport by land, sea and air.

### 14.2 UN proper shipping name

Not applicable.

### 14.3 Transport hazard class(es)

Not applicable.

### 14.4 Packing group

Not applicable.

### 14.5 Environmental hazards

Not applicable.

### 14.6 Special precautions for user

Not applicable.

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

Not applicable.

## Section 15: Regulatory information

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

**ADR** Agreement Concerning the International Carriage of Dangerous Goods by Road.

**IMDG Code** International Maritime Dangerous Goods Code.

**IATA** The International Air Transport Association regulations.

**Regulation (EC) No 1907/2006** of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a 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, 93/67/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 classification, labelling 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.

**Commission Regulation (EU) No 2020/878** of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

**Directive 2008/98/EC** of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

**European Parliament and Council Directive 94/62/EC** of 20 December 1994 on packaging and packaging waste as amended.

**Regulation (EU) 2016/425** of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

**Commission Directive 2000/39/EC** of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.



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**Commission Directive 2006/15/EC** of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

**Commission Directive 2009/161/EU** of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

**Commission Directive 2017/164/EU** of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

**Commission Directive 2019/1831/EU** of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

**Permits, prohibitions and restrictions (Annex XIV, XVII REACH, SVHC substances)**

Decamethylcyclopentasiloxane [CAS 541-02-6] is subject to the restrictions of Annex XVII of the REACH Regulation and has been included in the candidate list of SVHC substances (candidate list for Annex XIV of the REACH Regulation).

## 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this mixture.

### Section 16: Other information

Full text of indicated H phrases mentioned in section 3

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
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.
H412	Harmful to aquatic life with long lasting effects.

Clarification of aberrations and acronyms

PBT	Persistent, Bioaccumulative and Toxic substance
vPvB	very Persistent, very Bioaccumulative substance
DNEL	Derived No-Effect Level
PNEC	Predicted No-Effect Concentration
Aquatic Acute 1	Hazardous to the aquatic environment - Acute - category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic - category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic - category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic - category 3
Acute Tox. 4	Acute toxicity - category 4
Eye Irrit. 2	Eye irritation - category 2
Flam. Liq. 3	Flammable liquid - category 3
Skin Irrit. 2	Skin irritation - category 2
Skin Sens. 1	Skin sensitization - category 1
Skin Sens. 1A	Skin sensitization - category 1A
Skin Sens. 1B	Skin sensitization - category 1B
STOT SE 3	Specific Target Organ Toxicity – single exposure - category 3
LC <sub>50</sub>	Median lethal concentration
LD <sub>50</sub>	Median lethal dose
EC <sub>50</sub>	Average effective concentration
TWA	Time Weighted Average.
STEL	Short Term Exposure Limit.

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training.



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## Key literature references and sources of data

This SDS was prepared on the basis of safety data sheets of the individual components, literature data, online databases (e.g. ECHA, TOXNET, COSING), our knowledge and experience, taking into account the current legislation.

## Procedures used for the mixture classification according with Regulation 1272/2008/EC (CLP) as amended

Skin Sens. 1 H317 calculation method

Aquatic Chronic 3 H412 calculation method

## Additional information

Version: 3.0/EN

Changes: sections: 2,3,8,10,11,13,15,16

Safety Data Sheet made by: **THETA Consulting Sp. z o.o.** (on the basis of producer's data)

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.