

according to UK REACH Regulation

## Safranin O 0.1 %, aqueous

Revision date: 14.08.2023

Product code: 12382.xxxxx

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

### 1.1. Product identifier

Safranin O 0.1 %, aqueous

UFI:

6293-514P-E00Y-DAKW

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

### Use of the substance/mixture

Use as laboratory reagent. The product is intended for research, analysis and scientific education.

### Uses advised against

Any non-intended use.

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

Company name:	MORPHISTO GmbH	
Street:	Schumannstr. 144	
Place:	D-63069 Offenbach	
Telephone:	+49 (0) 69 / 400 3019-60	Telefax: +49 (0) 69 / 400 3019-64
E-mail:	info@morphisto.de	
Contact person:	Morphisto GmbH	
E-mail:	gefahrstoffmanagement@morphisto.	de
Internet:	http://www.morphisto.de	
1.4. Emergency telephone	Morphisto GmbH, Tel: +49(0)69 400	3019-60, Mo-Fr.: 09-16 Uhr

#### number:

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### **GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

## 2.2. Label elements

### Additional advice on labelling

Labelling according to Regulation (EC) No. 1272/2008 [CLP]: none

## 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1 % or more have endocrine disrupting properties. Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.

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

## 3.2. Mixtures

### Hazardous components

none (according to UK REACH Regulation)

#### **Further Information**

This product contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.



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

### 4.1. Description of first aid measures

### **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

### After inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

### After contact with skin

Wash with plenty of water. In case of skin irritation, seek medical treatment. Take off contaminated clothing and wash it before reuse.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

### After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Carbon dioxide (CO2). Dry extinguishing powder. alcohol resistant foam. Atomized water.

### Unsuitable extinguishing media

High power water jet.

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

Non-flammable. In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO2).

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

## Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

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

## General advice

Safe handling: see section 7 Personal protection equipment: see section 8

## 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided.

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

## For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the



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recovered material as prescribed in the section on waste disposal.

### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

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

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Wear suitable protective clothing. (See section 8.)

### Advice on protection against fire and explosion

Usual measures for fire prevention.

## Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Always close containers tightly after the removal of product.

#### Further information on handling

Avoid contact with skin, eyes and clothes.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

#### Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff

#### Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Recommended storage temperature: 15-25 °C Protect against: frost. UV-radiation/sunlight. heat. Humidity

## 7.3. Specific end use(s)

See section 1.

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

## 8.1. Control parameters

## Additional advice on limit values

Does not contain substances above concentration limits fixing an occupational exposure limit.

## 8.2. Exposure controls

Appropriate engineering controls Use extractor hood (laboratory).

## Individual protection measures, such as personal protective equipment

## Eye/face protection

Wear eye/face protection. Tightly sealed safety glasses. EN 166

## Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is



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recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. In case of prolonged or frequently repeated skin contact: Wear suitable gloves. Suitable material: FKM (fluororubber). - Thickness of glove material: 0,4 mm Breakthrough time >= 8 h Butyl rubber. - Thickness of glove material: 0,5 mm Breakthrough time >= 8 h CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm Breakthrough time >= 8 h NBR (Nitrile rubber). - Thickness of glove material: 0.35 mm Breakthrough time >= 8 h PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm Breakthrough time >= 8 h The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

## Skin protection

Use of protective clothing. Suitable protective clothing: Lab apron. Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

## **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. With correct and proper use, and under normal conditions, breathing protection is not required.

## Environmental exposure controls

No special precautionary measures are necessary.

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

## 9.1. Information on basic physical and chemical properties

Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and	liquid red transparent characteristic	~0 °C 100 °C
boiling range: Flammability: Lower explosion limits:		not applicable not determined
Upper explosion limits: Flash point: Auto-ignition temperature: Decomposition temperature:		not determined >100 °C not determined not determined
pH-Value (at 20 °C): Viscosity / kinematic: Water solubility:		5-6 not determined miscible.
(at 20 °C) Solubility in other solvents not determined		
Partition coefficient n-octanol/water: Vapour pressure: Density (at 20 °C): Relative vapour density:		not determined 23 hPa 1,00 g/cm³ not determined



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Particle characteristics:	not applicable	
9.2. Other information		
Information with regard to physical	hazard classes	
Explosive properties		
The product is not: Explosive. The		
Sustaining combustion:	Not sustaining combustion	
Self-ignition temperature		
Solid:	not applicable	
Gas:	not determined	
Oxidizing properties		
none		
Other safety characteristics		
Evaporation rate:	not determined	
Solvent separation test:	not determined	
Solvent content:	not determined	
Solid content:	not determined	
Sublimation point:	not determined	
Softening point:	not determined	
Pour point:	not determined	
Viscosity / dynamic:	not determined	
Flow time:	not determined	
SECTION 10: Stability and reactivit	у	
10.1. Reactivity		
No information available.		
10.2. Chemical stability		
	under recommended conditions of storage, use and temperature.	
10.3. Possibility of hazardous reaction		
Refer to chapter 10.5.	<u>-</u>	
10.4. Conditions to avoid		
Protect against: UV-radiation/sun	light heat	
	iigni. noat.	

### 10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

## 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO2).

## **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in GB CLP Regulation

### Acute toxicity

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

### ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

#### Irritation and corrosivity

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

#### Sensitising effects

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

### Carcinogenic/mutagenic/toxic effects for reproduction

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



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## 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.

## 11.2. Information on other hazards

## Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

#### Other information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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

### 12.1. Toxicity

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

## 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

#### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

## 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

No information available.

## **Further information**

Avoid release to the environment. Do not allow to enter into surface water or drains.

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

### 13.1. Waste treatment methods

### **Disposal recommendations**

Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

## List of Wastes Code - residues/unused products

160509 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

### List of Wastes Code - used product

160509 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08



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### List of Wastes Code - contaminated packaging

WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND 150106 PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging

#### Contaminated packaging

Completely emptied packages can be recycled. Wash with plenty of water. Handle contaminated packages in the same way as the substance itself.

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

## Land transport (ADR/RID)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.4. Packing group: Inland waterways transport (ADN) No dangerous good in sense of this transport regulation. 14.1. UN number or ID number: 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. 14.4. Packing group: No dangerous good in sense of this transport regulation. Marine transport (IMDG) 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.4. Packing group: Air transport (ICAO-TI/IATA-DGR) No dangerous good in sense of this transport regulation. 14.1. UN number or ID number: 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): 14.4. Packing group: No dangerous good in sense of this transport regulation. 14.5. Environmental hazards No

ENVIRONMENTALLY HAZARDOUS:

#### 14.6. Special precautions for user Refer to section 6-8

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

not relevant

## **SECTION 15: Regulatory information**

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

### EU regulatory information

Restrictions on use (REACH, annex XVII):	
Entry 75	
2010/75/EU (VOC):	No information available.
2004/42/EC (VOC):	No information available.
Information according to 2012/18/EU	Not subject to 2012/18/EU (SEVESO III)
(SEVESO III):	

### Additional information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

### National regulatory information



Liberchemikalien & Histologieservice       according to UK REACH Regulation         Safranin O 0.1 %, aqueous       Product code: 12382.xxxxx         evision date: 14.08.2023       Product code: 12382.xxxxx         Water hazard class (D):       non-hazardous to water         Additional information       non-hazardous to water         No information available.       - Chemical safety assessments for substances in this mixture were not carried out.			MORPHISTO GmbH
Safrain O 0.1 %, aqueous           vision date: 14.08.2023         Product code: 12382.xxxx         Page 8 /c           Water hazard class (D):        non-hazardous to water         Additional information           No Information available.         -         -           2. Chemical safety assessment         C         Chemical safety assessment           Chemical safety assessments for substances in this mixture were not carried out.         C           CTION 16: Other Information         Change         C           This data sheet contains changes from the previous version in section(s): 1.2.3.4.5.6.7.8.9.11,12.13,14.15,16.         Rev. 2.0, 10.7.2022, general adjustment(s)           Abbroations and accomym         Additional information         Rev. 2.1, 14.08.2023; general adjustment(s)           Abbroations and accomym         ADR: Accord europhen sur le transport des marchandises dangereuses par Route         AdW: Arbitsplatzprenzvert           AVV: Abstradts Service         C1.P.Classificaton, Labeling and Packaging of substances and mixtures         DNE:           DNE:         Derived No Effect Level         d: day(s)           EMCS: European Nerving or Ensity EACMICH Motified Chemical Substances         ELINCS: European Chemicals Agency           EVEY:         European Chemicals Agency         EMCS: European Chemicals Agency           EMCS: European Chemicals Agency         EMCS: European Chemicals Agency	MORPHISTO	Safety Data Sheet	
Product code:         Product	Laborchemikalien & Histologieservice	according to UK REACH Regulation	
Product code:         Product		Safranin O 0.1 %, aqueous	
Additional information         No information available.         2. Chemical safety assessments for substances in this mixture were not carried out.         ECTION 16: Other information         ECTION 16: Other information         ECTION 16: Other information         Changes         This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,11,12,13,14,15,16.         Rev. 2,1; 07.12.022, general adjustment(s)         Rev. 2,1; 04.08,2023, general adjustment(s)         Abbreviations and acronyms         ARA: Accord européen sur le transport des marchandises dangereuses par Route         AWS: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen         AWV: Abeltsplatzgenzwet         CAP: ClaSSification. Labelling and Packaging of substances and mixtures         DNEL: Derived No Effect Level         d: day(s)         EAKY: Europain List of Notified Chemical Substances         ECHA: Europaen List of Notified Chemical Substances         ECHA: Europaen List of Notified Chemical Substances         ECHA: Europaen Maste Catalogue         INTA: DCR: Dangerous Coods         INTA: International Air Transport Association (IATA)         ICAO: The Technical Instrumet Code for Dangerous Substances, Germany)         h. bur         LOAC: International Civil Aviation Organization         IC	Revision date: 14.08.2023		Page 8 of
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2. Chemical safety assessments Chemical safety assessments for substances in this mixture were not carried out. ECTION 16: Other Information Changes This data sheet contains changes from the previous version in section(s): 1.2.3.4.5.6.7.8.9.11.2.3.1.4.15.16. Rev. 2.0: 10.07.2022, Individual safety data sheet based on 10147_collect Rev. 2.1: 07.12.2022, general adjustment(s) ADV: Actor duropéen sure la fransport des marchandises dangereuses par Route AwSV: Verordnung über Anlagen zum Umgang mit wassergefahrdenden Stoffen AGW: Abelistgreinzwert AWV: Abfallverzeichnisverordnung CAS Chemical Abstracts Service CLP: Classification, Labelling and Packaging of substances and mixtures DNEL: Derived No Effect Level d: day(s) EAKV: Europaen Chemical Substances ELNCS: European ILst of Notified Chemical Substance ELNCS: Europea			
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Changes This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,11,12,13,14,15,16. Rev. 2,10, 10.07.2022, Individual safety data sheet based on 10147_collect Rev. 2,11,02,0223, general adjustment(s) ADR: Accord européen sur le transport des marchandises dangereuses par Route AwSV: Veordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen AGW: Arbeitsplatzgrenzweit AV: Abfallverzeichnisverordnung CAS Chemical Abstracts Service CLP: Classification, Labelling and Packaging of substances and mixtures DNEL: Derived No Effect Level d: day(s) EAKV: Europaisches Abfallverzeichnis gemäß Entwurf Abfalverzeichnisverordnung EINECS: European List of Notified Chemical Substances ELINCS: European List of Notified Chemical Substances ECOHA: European Vaste Catalogue IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER IMDC: International Air Transport Association ICAO-IT: Technical Instructions by the "International Air Transport Association" (IATA) ICAO: International Air and Labelling Offencials GefStoffV: Gefahrstoff/verordnung (Ordinance on Hazardous Substances, Germany) h: hour LOAEL: Lowest observed adverse effect level LOAEC: Lowest observed adverse effect level LOAEC: Lowest observed adverse effect level NOAEEL: No observed adverse effect level NOAEEL: No observed adverse effect level NOAEE: No observed adverse effect level		substances in this mixture were not carried out.	
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IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) h: hour LOAEL: Lowest observed adverse effect level LOAEC: Lowest observed adverse effect concentration LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent NOAEC: No observed adverse effect level NOAEC: No observed adverse effect level NLP: No-Longer Polymers N/A: not applicable OECD: Organisation for Economic Co-operation and Development PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail ) REACH: Registration, Evaluation, Authorisation of Chemicals SVHC: substance of very high concern TRGS Technische Regeln fuer Gefahrstoffe UN: United Nations			
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according to UK REACH Regulation

# Safranin O 0.1 %, aqueous

Revision date: 14.08.2023

Product code: 12382.xxxxx

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VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe WGK: Wassergefaehrdungsklasse CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals **UN: United Nations** CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container For abbreviations and acronyms, see table at http://abbrev.esdscom.eu For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

## **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations to existing laws and regulations. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)