## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 26/09/2022 Revision date: 26/09/2022 Supersedes version of: 24/09/2010 Version:

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

## 1.1. Product identifier

Product form

: Mixture

Trade name

Tattoo colour liquid green

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

1.2.1. Relevant identified uses

Use of the substance/mixture

: Marking of animals

1.2.2. Uses advised against

No additional information available

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

Manufacturer/Supplier

Raidex GmbH Neuhäuser Str., 17 DE- 72581 Dettingen/Erms Germany

T +49 7123-9751-0 - F +49 7123 9751-33

info@raidex.de

## 1.4. Emergency telephone number

Emergency number

Email competent person

sds@kft.de

: National Health Service (NHS)

24 hour national number

consumer

England and Scotland: 111 Wales: 0845 46 47

Northern Ireland: call your local General Practitioner

Call 999 if there is a life-threatening incident.

### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

Skin sensitisation, Category 1

H317

Hazardous to the aquatic environment - Chronic Hazard, Category 3

H412

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

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

#### 2.2. Label elements

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

Hazard pictograms (CLP)

GHS07

Signal word (CLP)

Warning

Contains

: 2-octyl-2H-isothiazol-3-one

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Hazard statements (CLP)

: H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P261 - Avoid breathing mist, vapours, spray.

P273 - Avoid release to the environment.

P280 - Wear protective clothing, protective gloves, eye protection. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

#### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component		
Glycerol (56-81-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Calcium carbonate (1317-65-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Titanium dioxide (13463-67-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
2-octyl-2H-isothiazol-3-one (26530-20-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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

## 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Glycerol substance with national workplace exposure limit(s) (GB)	CAS-No.: 56-81-5 EC-No.: 200-289-5 REACH-no: 01-2119471987- 18-xxxx	≥ 10 - < 20	Not classified
Calcium carbonate substance with national workplace exposure limit(s) (GB)	CAS-No.: 1317-65-3 EC-No.: 215-279-6	≥ 5 – < 10	Not classified
Titanium dioxide substance with national workplace exposure limit(s) (GB)	CAS-No.: 13463-67-7 EC-No.: 236-675-5 REACH-no: 01-2119489379- 17-xxxx	≥ 2.5 – < 5	Not classified

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2-octyl-2H-isothiazol-3-one	CAS-No.: 26530-20-1 EC-No.: 247-761-7 EC Index-No.: 613-112-00-5	< 0.1	Acute Tox. 3 (Oral), H301 (ATE=125 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=311
			mg/kg bodyweight) Acute Tox. 2 (Inhalation), H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317
			Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
2-octyl-2H-isothiazol-3-one	CAS-No.: 26530-20-1 EC-No.: 247-761-7 EC Index-No.: 613-112-00-5	( 0.0015 ≤C ≤ 100) Skin Sens. 1A, H317

Full text of H- and EUH-statements: see section 16

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

#### 4.1. Description of first aid measures

First-aid measures general

: In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact

: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash

occurs: Get medical advice/attention.

First-aid measures after eye contact

: Rinse eyes with water as a precaution.

First-aid measures after ingestion

: Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact

: May cause an allergic skin reaction.

## 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

: Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam.

Carbon dioxide.

Unsuitable extinguishing media

: Strong water jet.

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

Hazardous decomposition products in case of fire

: Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Nitrogen oxides.

## 5.3. Advice for firefighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

Other information

: Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be

done according to official regulations.

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

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

#### 6.1.1. For non-emergency personnel

Emergency procedures

: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing mist, vapours,

spray

6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid sub-soil penetration. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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

Methods for cleaning up

: Take up liquid spill into absorbent material. Take up mechanically (sweeping, shovelling)

and collect in suitable container for disposal.

Other information

: Disposal must be done according to official regulations.

#### 6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

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

#### 7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid

contact with skin and eyes. Avoid breathing mist, vapours, spray.

Hygiene measures

: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash

contaminated clothing before reuse.

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

Storage conditions

: Store in a well-ventilated place. Keep cool.

Information about storage in one common storage

: Keep away from food, drink and animal feeding stuffs.

facility

## 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

## 8.1.1 National occupational exposure and biological limit values

Glycerol (56-81-5)	
United Kingdom - Occupational Exposure Limits	
Local name	Glycerol
WEL TWA (OEL TWA) [1]	10 mg/m³ mist
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

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Titanium dioxide (13463-67-7)		
United Kingdom - Occupational Exposure Limits		
Local name	Titanium dioxide	
WEL TWA (OEL TWA) [1]	4 mg/m³ respirable 10 mg/m³ total inhalable	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
Calcium carbonate (1317-65-3)		
United Kingdom - Occupational Exposure Limits		
Local name	Calcium carbonate (Limestone, Marble)	
WEL TWA (OEL TWA) [1]	10 mg/m³ total inhalable 4 mg/m³ respirable	

## 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

## 8.1.4. DNEL and PNEC

2-octyl-2H-isothiazol-3-one (26530-20-1) PNEC (Water)		
PNEC aqua (marine water)	0.00022 mg/l	
PNEC aqua (intermittent, freshwater)	0.00122 mg/l	
PNEC aqua (intermittent, marine water)	0.000122	
PNEC (Sediment)		
PNEC sediment (freshwater)	0.0475 mg/kg dwt	
PNEC sediment (marine water)	0.00475 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0.0082 mg/kg dwt	

## 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

## Appropriate engineering controls:

Ensure good ventilation of the work station.

## 8.2.2. Personal protection equipment

### 8.2.2.1. Eye and face protection

#### Eye protection:

Use splash goggles when eye contact due to splashing is possible. EN 166

## 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing. EN ISO 13688. EN 13034

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#### Hand protection:

Chemically resistant protective gloves. Nitrile rubber. EN 374. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus with filter. Filter A (colour code: brown). EN 143. Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust. Details on operating conditions and maximum application concentrations can be found in DGUV Regulation 112-190 - Use of respiratory protective devices.

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

## Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Always wash hands after handling the product.

## SECTION 9: Physical and chemical properties

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

Physical state : Liquid Colour Green. Odour characteristic Odour threshold Not available Melting point Not applicable Freezing point Not available Boiling point Not available Flammability Not available

Explosive properties : Product is not explosive

Oxidising properties Non oxidizing. **Explosive limits** Not available Lower explosion limit Not available Not available Upper explosion limit Flash point Not available Auto-ignition temperature Not self-igniting Decomposition temperature Not available pΗ Not available Viscosity, kinematic Not available Solubility Water: Miscible Partition coefficient n-octanol/water (Log Kow) Not available Vapour pressure Not available Vapour pressure at 50 °C Not available Density Not available Relative density Not available Relative vapour density at 20 °C Not available

#### 9.2. Other information

Particle characteristics

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

## 9.2.2. Other safety characteristics

No additional information available

Not applicable

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

## 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

Tattoo colour liquid green

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

ATE CLP (oral)	> 5000 mg/kg bodyweight	
ATE CLP (dermal)	> 5000 mg/kg bodyweight	
ATE CLP (dust,mist)	> 5 mg/l/4h	
2-octyl-2H-isothiazol-3-one (26530-20-1)		
LD50 oral rat	125 mg/kg bodyweight (OECD 401 method)	
LD50 dermal rat	311 mg/kg bodyweight (OECD 402 method)	
LC50 Inhalation - Rat	270 ml/m³ (OECD 403 method)	
Skin corrosion/irritation	Not classified (Based on available data, the classification criteria are not met)	
Serious eye damage/irritation	Not classified (Based on available data, the classification criteria are not met)	

Skin corrosion/irritation

Serious eye damage/irritation

Respiratory or skin sensitisation

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Reproductive toxicity

STOT-single exposure

STOT-repeated exposure

Aspiration

Not classified (Based on available data, the classification criteria are not met)

Not classified (Based on available data, the classification criteria are not met)

Not classified (Based on available data, the classification criteria are not met)

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#### 11.2. Information on other hazards

No additional information available

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## SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general

: Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term

: Not classified (Based on available data, the classification criteria are not met)

(acute)

Hazardous to the aquatic environment, long-term

: Harmful to aquatic life with long lasting effects.

(chronic)

2-octyl-2H-isothiazol-3-one (26530-20-1)	
LC50 - Fish [1]	0.122 mg/l (96h; Quantitative structure-activity relationship (QSAR))
EC50 - Crustacea [1]	0.181 mg/l (48h; Quantitative structure-activity relationship (QSAR))
ErC50 algae	0.15 mg/l (96 h; Quantitative structure-activity relationship (QSAR))
NOEC chronic crustacea	0.035 mg/l (21 d; Quantitative structure-activity relationship (QSAR))

## 12.2. Persistence and degradability

2-octyl-2H-isothiazol-3-one (26530-20-1)		
Persistence and degradability	Not readily biodegradable. Quantitative structure-activity relationship (QSAR).	
Glycerol (56-81-5)		
Persistence and degradability	Readily biodegradable.	
Biodegradation	94 % (24 h)	
Titanium dioxide (13463-67-7)	· · · · · · · · · · · · · · · · · · ·	
Persistence and degradability	Not applicable for inorganic substances.	

## 12.3. Bioaccumulative potential

2-octyl-2H-isothiazol-3-one (26530-20-1)		
Partition coefficient n-octanol/water (Log Pow)	2.61 (25 °C; pH = 7; Quantitative structure-activity relationship (QSAR))	
Glycerol (56-81-5)		
Partition coefficient n-octanol/water (Log Kow)	-1.75 (25 °C; pH 7.4)	
Bioaccumulative potential	ccumulative potential Bioaccumulation unlikely.	
Titanium dioxide (13463-67-7)		
Bioaccumulative potential	Not applicable for inorganic substances.	

## 12.4. Mobility in soil

Glycerol (56-81-5)	
Surface tension	≈ 63.4 mN/m (20 °C)

## 12.5. Results of PBT and vPvB assessment

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

## 12.6. Endocrine disrupting properties

No additional information available

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#### 12.7. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods

: Disposal must be done according to official regulations. European waste catalogue. Do not discharge into drains or the environment. Do not dispose of with domestic waste.

Product/Packaging disposal recommendations

: Recycle or dispose of in compliance with current legislation.

**HP Code** 

: HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one

or more sectors of the environment

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	umber	•	-	
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shippin	g name			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard o	class(es)	2 2		
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group	•			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental haz	ards			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information	on available			•

## 14.6. Special precautions for user

## Overland transport

Not regulated

## Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

## Rail transport

Not regulated

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

Not applicable

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## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(b)	Tattoo colour liquid green ; 2-octyl-2H-isothiazol-3-one
3(c)	Tattoo colour liquid green ; 2-octyl-2H-isothiazol-3-one

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Other information, restriction and prohibition

: Take note of Directive 94/33/EC on the protection of young people at work.

regulations

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

#### 15.1.2. National regulations

#### **United Kingdom**

National regulations

: Take note of Directive 94/33/EC on the protection of young people at work.

This safety data sheet is for informational purposes only and does not comply with national legal requirements without reference to a national distributor. The national distributor is responsible for a legally compliant safety data sheet.

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

Indication of changes			
Section	Changed item	Change	Comments
	General revision		Sections 4-7
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Labelling according to Regulation (EC) No. 1272/2008 [CLP]	Added	
3.2	Composition/information on ingredients	Added	
8.1	Generic OEL data	Added	
8.1	PNEC	Added	
11.1	Toxicological information	Added	
12.1	Ecotoxicity	Added	
13.1	HP Code	Added	\$
15.1	Regulatory information	Added	EU-Regulations; REACH Annex XVII

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Abbreviations a	and acronyms:
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative
CAS-No.	Chemical Abstract Service number

Data sources

: Information provided by the manufacturer. European Chemicals Agency,

http://echa.europa.eu/. MSDSs of the suppliers.

Department issuing data specification sheet:

: KFT Chemieservice GmbH Im Leuschnerpark 3 D-64347 Griesheim

Phone: +49 6155-8981-400 Fax: +49 6155 8981-500 SDS Service: +49 6155 8981-522

Contact person

: Dr. Lisa Schmitt

Other information : Version/s 4.00 is/are not available in this language.

Full text of H- and EUH-statements:		
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	

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Acute toxicity (oral), Category 3	
Hazardous to the aquatic environment – Acute Hazard, Category 1	
Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Serious eye damage/eye irritation, Category 1	
Toxic if swallowed.	
Toxic in contact with skin.	
Causes severe skin burns and eye damage.	
May cause an allergic skin reaction.	
Causes serious eye damage.	
Fatal if inhaled.	
Very toxic to aquatic life.	
Very toxic to aquatic life with long lasting effects.	
Harmful to aquatic life with long lasting effects.	
Skin corrosion/irritation, Category 1	
Skin sensitisation, Category 1	
Skin sensitisation, category 1A	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Skin Sens. 1	H317	Calculation method
Aquatic Chronic 3	H412	Calculation method

KFT SDS EU 00

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.