

**Safety data sheet in accordance with regulation (EC) No 1907/2006**

Trade name: Treatex Chocolate Colour Tone 11080

Version: 4 / GB

Date created/revised: 24.06.16

Replaces Version: 3 / GB

Print date: 05.12.14

**1. Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Treatex Chocolate Colour Tone 11080

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

**Use of the substance/preparation**

Surface treatment of wood and other materials

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

**Producer**

Treatex Ltd, Unit I, Howland Road Business Park,  
Howland Road, Thame, Oxfordshire,  
OX9 3GQ  
Telephone no. +44 (0) 1844 260416  
Fax no. +44 (0) 1844 358160  
E-mail address info@treatex.co.uk

**1.4. Emergency telephone number**

+49 (0) 30 30686700

**2. Hazards identification \*\*\***

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

**Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)  
Flam. Liq. 3 H226

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**Classification in accordance with EC directives 1999/45/EC and 67/548/EEC**

Reference to other sections 2.2. Label elements

**2.2. Label elements**

**Labelling according to regulation (EC) No 1272/2008**

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**Hazard pictograms \*\*\***



**Signal word \*\*\***

Warning

**Hazard statements \*\*\***

H226 Flammable liquid and vapour.

**Precautionary statements \*\*\***

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241.3 Use explosion-proof electrical equipment.

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P243 Take precautionary measures against static discharge.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

### Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

#### Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

#### Supplemental information

Cleaning cloth soaked with the product can self ignite during packing up, therefore dry the cloth on a line or through spreading and dispose of after dry up.

### Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC

#### R phrases

10 Flammable.  
53 May cause long-term adverse effects in the aquatic environment.  
66 Repeated exposure may cause skin dryness or cracking.  
67 Vapours may cause drowsiness and dizziness.

#### S phrases

2 Keep out of the reach of children.

### Hazardous component(s) to be indicated on label

#### Special labelling for certain preparations

Cleaning cloth soaked with the product can self ignite during packing up, therefore dry the cloth on a line or through spreading and dispose of after dry up.

### 2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB) (if not listed in Section 3).

## 3. Composition/information on ingredients

### Hazardous ingredients

#### naphtha hydrodesulfurized heavy

CAS No. 64742-48-9  
EINECS no. 265-150-3  
Registration no. 01-2119457273-39  
Concentration >= 25 < 50 %  
Classification R67  
R66  
Xn, R65

Classification (Regulation (EC) No. 1272/2008)  
Asp. Tox. 1 H304  
EUH066

#### alkanes, C11-14-iso-

CAS No. 90622-58-5  
EINECS no. 918-167-1  
Registration no. 01-2119472146-39  
Concentration >= 10 < 25 %

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Classification Xn, R65  
R66  
R53

Classification (Regulation (EC) No. 1272/2008)  
Asp. Tox. 1 H304  
Aquatic Chronic 4 H413  
EUH066

### **N-alkyl propylene diamine dioleate**

CAS No. 40027-38-1

EINECS no. 254-754-2

Concentration < 0,5 %

Classification Xn, R22  
Xi, R38  
Xi, R41  
N, R50

Classification (Regulation (EC) No. 1272/2008)  
Acute Tox. 4 H302  
Skin Irrit. 2 H315  
Eye Dam. 1 H318  
Aquatic Acute 1 H400  
Route of exposure: Oral exposure

### **1-methoxy-2-propanol**

CAS No. 107-98-2

EINECS no. 203-539-1

Registration no. 01-2119457435-35

Concentration >= 1 < 10 %

Classification R10  
R67

Classification (Regulation (EC) No. 1272/2008)  
Flam. Liq. 3 H226  
STOT SE 3 H336  
Nervous system

### **Solvent Red 122**

CAS No. 12227-55-3

Concentration < 0,5 %

Classification N, R50/53

Classification (Regulation (EC) No. 1272/2008)  
Aquatic Acute 1 H400  
Aquatic Chronic 1 H410

### **Further hazardous ingredients**

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) (if not listed in Section 3).

## **4. First aid measures**

### **4.1. Description of first aid measures**

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### General information

When symptoms persist or in all cases of doubt seek medical advice. If unconscious place in recovery position and seek medical advice. First aider needs to protect himself. Move out of dangerous area.

#### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. Keep patient warm and at rest. Consult a physician for severe cases.

#### After skin contact

Wash off immediately with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician.

#### After eye contact

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

#### After ingestion

Do NOT induce vomiting. Consult a physician.

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

Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. High concentration of vapours may cause irritation to eyes and respiratory system and produce narcotic effects. The liquid splashed in the eyes may cause irritation and reversible damage.

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

#### Hints for the physician / treatment

Treat symptomatically.

## 5. Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Non suitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

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

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. Vapours may form explosive mixtures with air.

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighting

Wear self contained breathing apparatus for fire fighting if necessary.

#### Other information

Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray. Standard procedure for chemical fires.

## 6. Accidental release measures

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

Remove all sources of ignition. Ensure adequate ventilation. Avoid breathing vapours, mist or gas.

### 6.2. Environmental precautions

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Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. Contact the proper local authorities.

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

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated floors and objects thoroughly while observing environmental regulations. Clean with detergents. Avoid solvents. Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

Refer to protective measures listed in sections 7 and 8.

## 7. Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Keep containers tightly closed in a dry, cool and well-ventilated place. Use only with adequate ventilation/personal protection. Ensure adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist. When using, do not eat, drink or smoke. Use personal protective equipment. For personal protection see section 8.

#### Advice on protection against fire and explosion

Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Take measures to prevent the build up of electrostatic charge. Wear shoes with conductive soles. No sparking tools should be used. Standard procedure for chemical fires. Do not process in the same cabin together with highly flammable material (e.g. CN lacquer) => fire hazard through self ignition! Cleaning cloth soaked with the product can self ignite during packing up, therefore dry the cloth on a line or through spreading and dispose of after dry up.

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

#### Requirements for storage rooms and vessels

Keep in an area equipped with solvent resistant flooring. Store at room temperature in the original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### Hints on storage assembly

Keep away from oxidising agents and strongly acid or alkaline materials.

#### Storage class according to the Occupation Safety Ordinance:

Flammable.

#### Further information on storage conditions

Keep away from heat. Protect from sunlight. Protect from frost - <10%, for a solvent content (see section 15 VOC). Keep away from sources of ignition - No smoking. Store in accordance with the particular national regulations.

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit values

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**naphtha hydrodesulfurized heavy**

List EH40  
 Value 1200 mg/m<sup>3</sup>  
 Status: 03/2013

**alkanes, C11-14-iso-**

List EH40  
 Value 1200 mg/m<sup>3</sup>  
 Status: 03/2013

**1-methoxy-2-propanol**

List Directive 2000/39 EG  
 Value 375 mg/m<sup>3</sup> 100 ppm(V)  
 Short term exposure limit 568 mg/m<sup>3</sup> 150 ppm(V)  
 Skin resorption / sensibilisation: H; Status: 12/2009

**1-methoxy-2-propanol**

List EH40  
 Value 375 mg/m<sup>3</sup> 100 ppm(V)  
 Short term exposure limit 560 mg/m<sup>3</sup> 150 ppm(V)  
 Skin resorption / sensibilisation: Sk; Status: 03/2013

**Derived No/Minimal Effect Levels (DNEL/DMEL)**

**1-methoxy-2-propanol**

Type of value DNEL  
 Reference group Workers (professional)  
 Duration of exposure Long-term  
 Route of exposure inhalative  
 Mode of action Local effects  
 Concentration 553,5 mg/m<sup>3</sup>

Type of value DNEL  
 Reference group Workers (professional)  
 Duration of exposure Long-term  
 Route of exposure Dermal exposure  
 Mode of action systemic effect  
 Concentration 50,6 mg/kg/d

Type of value DNEL  
 Reference group Workers (professional)  
 Duration of exposure Long-term  
 Route of exposure inhalative  
 Mode of action systemic effect  
 Concentration 369 mg/m<sup>3</sup>

Type of value DNEL  
 Reference group Consumers  
 Duration of exposure Long-term  
 Route of exposure Dermal exposure  
 Mode of action systemic effect  
 Concentration 18,1 mg/kg/d

Type of value DNEL  
 Reference group Consumers  
 Duration of exposure Long-term  
 Route of exposure inhalative  
 Mode of action systemic effect

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Concentration	43,9	mg/m <sup>3</sup>
Type of value	DNEL	
Reference group	Consumers	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	systemic effect	
Concentration	3,3	mg/kg/d

**naphtha hydrodesulfurized heavy**

Type of value	DNEL	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	systemic effect	
Concentration	300	mg/kg/d

Type of value	DNEL	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	systemic effect	
Concentration	1500	mg/m <sup>3</sup>

Type of value	DNEL	
Reference group	Consumers	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	systemic effect	
Concentration	300	mg/kg/d

Type of value	DNEL	
Reference group	Consumers	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	systemic effect	
Concentration	900	mg/m <sup>3</sup>

Type of value	DNEL	
Reference group	Consumers	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	systemic effect	
Concentration	300	mg/kg/d

**Predicted No Effect Concentration (PNEC)**

**1-methoxy-2-propanol**

Type of value	PNEC	
Type	freshwater	
Concentration	10	mg/l

Type of value	PNEC	
Type	saltwater	
Concentration	1	mg/l

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Type of value	PNEC		
Conditions	sporadic release		
Concentration	100	mg/l	
Type of value	PNEC		
Type	Fresh water sediment		
Concentration	41,6	mg/kg	
Type of value	PNEC		
Type	saltwater sediment		
Concentration	4,17	mg/kg	
Type of value	PNEC		
Type	ground		
Concentration	2,47	mg/kg	
Type of value	PNEC		
Type	sewage treatment plants (STP)		
Concentration	100	mg/l	

## 8.2. Exposure controls

### Exposure controls

Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

### Respiratory protection

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Recommended Filter type: Combination filter: A2-P2 (EN 141, 143, 371)

### Hand protection

Protective gloves complying with EN 374.

Glove material

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us.

The exact break through time can be obtained from the protective glove producer and this has to be observed.

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

### Eye protection

Safety glasses with side-shields conforming to EN166

### Body protection

Wear suitable protective clothing. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

## 9. Physical and chemical properties

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

Form liquid



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<b>Colour</b>	brown
<b>Odour</b>	characteristic
<b>Odour threshold</b>	
Remarks	no data available
<b>pH value</b>	
Remarks	no data available
<b>Melting point</b>	
Remarks	no data available
<b>Freezing point</b>	
Remarks	no data available
<b>Initial boiling point and boiling range</b>	
Value	119 to 217 °C
<b>Flash point</b>	
Value	36 to 55 °C
<b>Flammability (solid, gas)</b>	
no data available	
<b>Upper/lower flammability or explosive limits</b>	
Remarks	no data available
<b>Vapour density</b>	
Remarks	no data available
<b>Density</b>	
Value	0,9 g/cm <sup>3</sup>
Temperature	20 °C
<b>Solubility in water</b>	
Remarks	no data available
<b>Solubility(ies)</b>	
Remarks	no data available
<b>Partition coefficient: n-octanol/water</b>	
Remarks	no data available
<b>Ignition temperature</b>	
Remarks	no data available
<b>Decomposition temperature</b>	
Remarks	no data available
<b>Viscosity</b>	
<b>kinematic</b>	
Value	> 21 mm <sup>2</sup> /s
Temperature	40 °C
<b>Efflux time</b>	
Value	22 to 32 s
Temperature	20 °C
Method	DIN 53211 4 mm
<b>Explosive properties</b>	
evaluation	no data available
<b>Oxidising properties</b>	

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Remarks no data available

### 10. Stability and reactivity

#### 10.1. Reactivity

No conditions to be specially mentioned.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

To avoid thermal decomposition, do not overheat.

#### 10.4. Conditions to avoid

Heat, flames and sparks.

##### Decomposition temperature

Remarks no data available

#### 10.5. Incompatible materials

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

#### 10.6. Hazardous decomposition products

Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke. No decomposition if stored and applied as directed.

### 11. Toxicological information

#### 11.1. Information on toxicological effects

##### Acute oral toxicity (Components)

###### 1-methoxy-2-propanol

Species	rat		
LD50		5600	mg/kg

###### naphtha hydrodesulfurized heavy

Species	rat		
LD50	>	5000	mg/kg

###### alkanes, C11-14-iso-

Species	rat		
LD50	>	5000	mg/kg
Method	OECD 401		

##### Acute dermal toxicity (Components)

###### 1-methoxy-2-propanol

Species	rabbit		
LD50	>	10000	mg/kg

###### naphtha hydrodesulfurized heavy

Species	rat		
LD50		3160	mg/kg

###### alkanes, C11-14-iso-

Species	rabbit		
LD50	>	5000	mg/kg

##### Acute inhalative toxicity (Components)

###### 1-methoxy-2-propanol

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Species	rat			
LC50	>	6		mg/l
Duration of exposure		4	h	
Administration/Form	Dust/Mist			

### naphtha hydrodesulfurized heavy

Species	rat			
LC50	appr.	100		mg/l
Duration of exposure		4	h	
Remarks	Mist			

### alkanes, C11-14-iso-

Species	rat			
LC50	>	5,6		mg/l
Duration of exposure	=	4	h	
Remarks	Mist			

### Sensitization (Components)

#### 1-methoxy-2-propanol

Species	guinea pig
evaluation	not sensitizing

#### uaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, stearates, salts with bentonite

evaluation	No sensitizing effects known.
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### Reproduction toxicity (Components)

#### 1-methoxy-2-propanol

evaluation	No toxicity to reproduction
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### Carcinogenicity (Components)

#### 1-methoxy-2-propanol

evaluation	Did not show carcinogenic effects in animal experiments.
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### Other information

No data is available on the product itself.

## 12. Ecological information

### 12.1. Toxicity

#### General information

No data is available on the product itself.

#### Fish toxicity (Components)

##### 1-methoxy-2-propanol

Species	Leuciscus idus (Golden orfe)			
LC50	4600	to	10000	mg/l
Duration of exposure	96	h		

##### naphtha hydrodesulfurized heavy

Species	Pimephales promelas (fathead minnow)			
LC50	2200			mg/l
Duration of exposure	96	h		

#### Daphnia toxicity (Components)

##### 1-methoxy-2-propanol

Species	Daphnia magna (Water flea)			
EC50	23300			mg/l
Duration of exposure	48	h		

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### naphtha hydrodesulfurized heavy

Species	Chaetogammarus marinus	
EC50	2,6	mg/l
Duration of exposure	96	h

### alkanes, C11-14-iso-

Species	Daphnia magna (Water flea)	
EC50	> 1000	mg/l
Duration of exposure	48	h

### Algae toxicity (Components)

#### 1-methoxy-2-propanol

Species	Scenedesmus capricornutum (fresh water algae)	
EC50	> 1000	mg/l
Duration of exposure	7	d
Source	Bayer	

### Bacteria toxicity (Components)

#### 1-methoxy-2-propanol

Species	Pseudomonas putida	
EC50	> 1000	mg/l

## 12.2. Persistence and degradability

### General information

No data is available on the product itself.

### Biodegradability (Components)

#### 1-methoxy-2-propanol

Value	96	%
Duration of test evaluation	28	d

Readily biodegradable.

#### alkanes, C11-14-iso-

evaluation Not readily biodegradable.

## 12.3. Bioaccumulative potential

### General information

No data is available on the product itself.

### Partition coefficient: n-octanol/water

Remarks no data available

## 12.4. Mobility in soil

### General information

No data is available on the product itself.

### Mobility in soil

no data available

## 12.5. Results of PBT and vPvB assessment

### General information

Not applicable

## 12.6. Other adverse effects

### General information

No data is available on the product itself.

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**General information / ecology**

No data is available on the product itself.

**13. Disposal considerations**

**13.1. Waste treatment methods**

**Disposal recommendations for the product**

EWC waste code 080111 - waste paint and varnish containing organic solvents or other dangerous substances  
EWC waste code 200127 - paint, inks, adhesives and resins containing dangerous substances

Where possible recycling is preferred to disposal or incineration.  
Try to prevent the material from entering drains or water courses.

**modified product**

EWC waste code 080113 - sludges from paint or varnish containing organic solvents or other dangerous substances  
EWC waste code 080115 - aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances

**Dried residues**

EWC waste code 080112 - waste lacquers and waste paint except those falling under 080111

**Disposal recommendations for packaging**

EWC waste code 150110 - packaging containing residues of or contaminated by dangerous substances

Empty remaining contents.  
Empty containers should be taken to local recyclers for disposal.

**14. Transport information**

**Land transport ADR/RID**

**14.1. UN number**

UN 1263

**14.2. UN proper shipping name**

PAINT

**14.3. Transport hazard class(es)**

Class 3  
Label 3

**14.4. Packing group**

Packing group III  
Special provision 640E  
Limited Quantity 5I  
Transport category 3  
Tunnel restriction code D/E

**Marine transport IMDG/GGVSee**

**14.1. UN number**

UN 1263

**14.2. UN proper shipping name**

PAINT

**14.3. Transport hazard class(es)**

Class 3

**14.4. Packing group**

Packing group III

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**14.5. Environmental hazards**

no

**Air transport ICAO/IATA**

**14.1. UN number**

UN 1263

**14.2. UN proper shipping name**

PAINT

**14.3. Transport hazard class(es)**

Class 3

**14.4. Packing group**

Packing group III

**15. Regulatory information**

**Ingredients (Regulation (EC) No 648/2004)**

**VOC**

VOC (EU) 53,68 % 489,6 g/l

**Non-volatile content**

Value [%] 45,9

**16. Other information**

**R-phrases listed in Chapter 3**

10 Flammable.  
22 Harmful if swallowed.  
38 Irritating to skin.  
41 Risk of serious damage to eyes.  
50 Very toxic to aquatic organisms.  
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
53 May cause long-term adverse effects in the aquatic environment.  
65 Harmful: may cause lung damage if swallowed.  
66 Repeated exposure may cause skin dryness or cracking.  
67 Vapours may cause drowsiness and dizziness.

**Hazard statements listed in Chapter 3**

EUH066 Repeated exposure may cause skin dryness or cracking.  
H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H413 May cause long lasting harmful effects to aquatic life.

**CLP categories listed in Chapter 3**

Acute Tox. 4 Acute toxicity, Category 4  
Aquatic Acute 1 Hazardous to the aquatic environment, acute, Category 1  
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic, Category 1  
Aquatic Chronic 4 Hazardous to the aquatic environment, chronic, Category 4  
Asp. Tox. 1 Aspiration hazard, Category 1  
Eye Dam. 1 Serious eye damage, Category 1

## Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: Treatex Chocolate Colour Tone 11080

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Flam. Liq. 3  
Skin Irrit. 2  
STOT SE 3

Flammable liquid, Category 3  
Skin irritation, Category 2  
Specific target organ toxicity - single exposure, Category 3

### Abbreviations

ADR - Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID - Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
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-TI - Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS - Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS - European Inventory of Existing Commercial Chemical Substances  
CAS - Chemical Abstracts Service (division of the American Chemical Society)  
GefStoffV - Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
LOAEL - Lowest Observed Adverse Effect Level  
LOEL - Lowest Observed Effect Level  
NOAEL - No Observed Adverse Effect Level  
NOEC - No Observed Effect Concentration  
NOEL - No Observed Effect Level  
OECD - Organisation for Economic Cooperation and Development  
VOC - Volatile Organic Compounds

Changes since the last version are highlighted in the margin (\*\*\*). This version replaces all previous versions.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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