

# Safety Data Sheet

510  
Version 3.0

Leather dye  
Revision date Jan 27, 2021

Print date Feb 3, 2021

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

### 1.1 Product identifier

510 Leather dye

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

#### Relevant identified uses

Leather tanning, dye, finishing, impregnation and care products

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

#### Supplier

Renia Gesellschaft mbH  
Ostmerheimer Straße 516 Telephone: +492216307990  
51109 Köln E-mail: info@renia.com  
Deutschland Website: www.renia.com

#### Department responsible for information

E-mail (competent person) labor@renia.com

### 1.4 Emergency telephone number

Emergency telephone number Grimme: +49-221-630799-17  
Only available during office hours.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

- \* Flam. Liq. 2; flammable liquids; H225 Highly flammable liquid and vapour.
- \* Asp. Tox. 1; Aspiration hazard; H304 May be fatal if swallowed and enters airways.
- \* Eye Irrit. 2; Serious eye damage/eye irritation; H319 Causes serious eye irritation.
- \* STOT SE 3 Narcotic effects; STOT-single exposure; H336 May cause drowsiness or dizziness.
- \* Skin Irrit. 2; Skin corrosion/irritation; H315 Causes skin irritation.
- \* Aquatic Chronic 3; Hazardous to the aquatic environment; H412 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

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

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H315 Causes skin irritation.  
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.  
\* P103 Read carefully and follow all instructions.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof electrical equipment.  
P242 Use non-sparking tools.

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P243	Take action to prevent static discharges.
P261	Avoid breathing vapours.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
* P280	Wear protective gloves and eye/face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER if you feel unwell.
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use extinguishing powder or sand to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to industrial incineration plant.

## Hazard components for labelling

Acetone  
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

## 2.3 Other hazards

No information available.

## SECTION 3: Composition / information on ingredients

### 3.2 Mixtures

#### Description

leather dye based on azo- and azine-colours, dissolved in a mixture of organic solvents.

#### Hazardous ingredients

CAS No. EC No. INDEX No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	weight-%
67-64-1 200-662-2 606-001-00-8	<b>Acetone</b> 01-2119471330-49 Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336	40,0 < 45,0
- 921-024-6 649-328-00-1	<b>Hydrocarbons, C6-C7, isoalkanes, cyclics, &lt;5% n-hexane</b> 01-2119475514-35 Flam. Liq. 2 H225 / Asp. Tox. 1 H304 / Skin Irrit. 2 H315 / STOT SE 3 H336 / Aquatic Chronic 2 H411	19,0 < 22,0
64-17-5 200-578-6 603-002-00-5	<b>Ethanol</b> 01-2119457610-43 Flam. Liq. 2 H225 / Eye Irrit. 2 H319	19,0 < 22,0
1330-20-7 215-535-7 601-022-00-9	<b>Xylene</b> 01-2119488216-32 Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / Acute Tox. 4 H312 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Acute Tox. 4 H332 / STOT SE 3 H335 / STOT RE 2 H373	4,0 < 5,0

#### Remark

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

## General information

Remove affected person from the danger area and lay down.

### Following inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Medical treatment necessary.

### Following skin contact

After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician. Rub greasy ointment into the skin.

### After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

### After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

### Self-protection of the first aider

First aider: Pay attention to self-protection!

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

### Symptoms

dizziness. Nausea. headache. Unconsciousness.

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

Treat symptomatically. Transport affected person in lying position, in case of shortness of breath in half-sitting position. Where appropriate artificial ventilation. Subsequent observance for pneumonia and lung oedema.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>), alcohol resistant foam, Extinguishing powder, ABC-powder, spray mist, (water), Dry sand.

#### Unsuitable extinguishing media

Full water jet. Strong water jet.

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

Flammable. Vapours can form explosive mixtures with air. Do not inhale explosion and combustion gases.

### 5.3 Advice for firefighters

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

### 5.4 Additional information

Suppress gases/vapours/mists with water spray jet. Use water spray jet to protect personnel and to cool endangered containers. Remove product from area of fire. 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

Avoid contact with eyes and skin. Use personal protection equipment. Remove all sources of ignition. Provide adequate ventilation. The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration. Do not breathe gas/fumes/vapour/spray.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Cover drains.

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

- \* 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.

### 6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advices on safe handling

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

#### Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. Before starting work, apply solvent-resistant skincare preparations.

#### Further information

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Vapours/aerosols must be exhausted directly at the point of origin. Take precautionary measures against static discharge.

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

#### Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place. Keep container tightly closed. Store in a well-ventilated and dry room at temperatures between 10 °C and 30 °C. Ensure adequate ventilation of the storage area.

#### Hints on joint storage

Do not store together with: Oxidizing agent, Pyrophoric or self-heating substances. Store packaging and ignitable materials separately. Keep away from food, drink and animal feedingstuffs.

#### Further information on storage conditions

Floors should be impervious, resistant to liquids and easy to clean. Store small packages in a suitable, robust cabinet.

### 7.3 Specific end use(s)

Solvents/Thinner.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

CAS No.	Substance name	Source	Long-term /short-term (Spitzenbegrenzung)
67-64-1	Acetone	ACGIH	- / - (-) mg/m <sup>3</sup>
67-64-1	Acetone	NIOSH	590 / - (-) mg/m <sup>3</sup>
67-64-1	Acetone	OSHA	2.400 / - (-) mg/m <sup>3</sup>
64-17-5	Ethanol	ACGIH	- / - (-) mg/m <sup>3</sup>
64-17-5	Ethanol	NIOSH	1.900 / - (-) mg/m <sup>3</sup>
64-17-5	Ethanol	OSHA	1.900 / - (-) mg/m <sup>3</sup>
1330-20-7	Xylene	ACGIH	434 / 651 (-) mg/m <sup>3</sup>
1330-20-7	Xylene	NIOSH	435 / 655 (-) mg/m <sup>3</sup>
1330-20-7	Xylene	OSHA	435 / - (-) mg/m <sup>3</sup>

#### Additional information

Long-term: long-term occupational exposure limit value  
short-term: short-term occupational exposure limit value

#### Biological limit values

CAS No.	Substance name	Source	Value/ Test material
67-64-1	Acetone	ACGIH-BEI	25 mg/L / urine
1330-20-7	Xylene	ACGIH-BEI	1,5 g/g creatinine / urine

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CAS No.	Substance name	DNEL type	DNEL value
67-64-1	Acetone	DNEL acute inhalative (systemic)	2.420 mg/l
67-64-1	Acetone	DNEL long-term inhalative (systemic)	1.210 mg/l
67-64-1	Acetone	DNEL long-term dermal (systemic)	186 mg/kg
64-17-5	Ethanol	DNEL long-term dermal (systemic)	343 mg/kg bw/day
64-17-5	Ethanol	DNEL long-term inhalative (systemic)	950 mg/m <sup>3</sup>
64-17-5	Ethanol	DNEL acute inhalative (local)	1.900 mg/m <sup>3</sup>
-	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	DNEL long-term dermal (systemic)	773 mg/kg
-	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	DNEL long-term inhalative (systemic)	2.035 mg/m <sup>3</sup>
1330-20-7	Xylene	DNEL long-term inhalative (systemic)	77 mg/m <sup>3</sup>
1330-20-7	Xylene	DNEL acute inhalative (systemic)	289 mg/m <sup>3</sup>
1330-20-7	Xylene	DNEL acute inhalative (local)	289 mg/m <sup>3</sup>
1330-20-7	Xylene	DNEL long-term dermal (systemic)	180 mg/kg bw/day

## DNEL Consumer

CAS No.	Substance name	DNEL type	DNEL value
67-64-1	Acetone	DNEL long-term dermal (systemic)	62 mg/kg
67-64-1	Acetone	DNEL long-term inhalative (systemic)	200 mg/l
67-64-1	Acetone	DNEL long-term oral (repeated)	62 mg/kg
64-17-5	Ethanol	DNEL long-term oral (repeated)	87 mg/kg bw/day
64-17-5	Ethanol	DNEL long-term dermal (systemic)	206 mg/kg bw/day
64-17-5	Ethanol	DNEL long-term inhalative (systemic)	114 mg/m <sup>3</sup>
64-17-5	Ethanol	DNEL acute inhalative (local)	950 mg/m <sup>3</sup>
-	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	DNEL long-term dermal (systemic)	699 mg/kg
-	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	DNEL long-term inhalative (systemic)	608 mg/m <sup>3</sup>
-	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	DNEL long-term oral (repeated)	699 mg/kg
1330-20-7	Xylene	DNEL long-term inhalative (systemic)	14,8 mg/m <sup>3</sup>
1330-20-7	Xylene	DNEL long-term dermal (systemic)	108 mg/kg bw/day
1330-20-7	Xylene	DNEL long-term oral (repeated)	1,6 mg/kg bw/day

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## PNEC

CAS No.	Substance name	PNEC type	PNEC Value
67-64-1	Acetone	PNEC aquatic, freshwater	10,6 mg/l
67-64-1	Acetone	PNEC aquatic, marine water	1,06 mg/l
67-64-1	Acetone	PNEC sediment, freshwater	30,4 mg/l
67-64-1	Acetone	PNEC sediment, marine water	3,04 mg/l
67-64-1	Acetone	PNEC soil, marine water	29,5 mg/l
64-17-5	Ethanol	PNEC aquatic, freshwater	0,96 mg/l
64-17-5	Ethanol	PNEC aquatic, marine water	0,79 mg/l
64-17-5	Ethanol	PNEC sediment, freshwater	3,6 mg/kg
64-17-5	Ethanol	PNEC sediment, marine water	2,9 mg/kg
1330-20-7	Xylene	PNEC aquatic, freshwater	0,327 mg/l
1330-20-7	Xylene	PNEC aquatic, marine water	0,327 mg/l
1330-20-7	Xylene	PNEC sewage treatment plant (STP)	6,58 mg/l
1330-20-7	Xylene	PNEC sediment, freshwater	12,46 mg/kg
1330-20-7	Xylene	PNEC sediment, marine water	12,46 mg/kg
1330-20-7	Xylene	PNEC soil, freshwater	2,31 mg/kg

## 8.2 Exposure controls

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

### Personal protection equipment

#### Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Combination filtering device (EN 14387). Use the following filter types for cleaning waste gases:

#### Hand protection

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material:  $\geq 0,4$  mm

\* Breakthrough time (maximum wearing time):  $\geq 480$  min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Eye/face protection

Wear closely fitting protective glasses in case of splashes.

#### Body protection

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

Wear anti-static footwear and clothing

### Environmental exposure controls

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state liquid

Colour black

#### Safety characteristics

Odour characteristic

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Odour threshold	not determined
* pH at 20 °C:	not determined
Melting point/freezing point	< -35 °C
Initial boiling point and boiling range	40 - 110 °C
Flash point	-18 °C
Evaporation rate at 20°C	not determined
Burning time (s)	not applicable
Lower explosion limit at 20°C	1 Vol-%
Upper explosion limit at 20°C	15 Vol-%
Vapour pressure at 20°C	240 mbar
Density at 20°C	0,785 kg/l
Water solubility (g/L) at 20°C	not determined
Partition coefficient: n-octanol/water	see section 12
Ignition temperature in °C	200 °C
Decomposition temperature	not determined
Viscosity	3,5 mPas
Explosive properties	not relevant
Oxidising properties	not relevant

## 9.2 Other information

not applicable

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2 Chemical stability

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

### 10.3 Possibility of hazardous reactions

Gases / vapours, highly flammable. Vapours can form explosive mixtures with air.

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

Acid, concentrated, Oxidising agent, strong.

### 10.6 Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

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

#### **Acetone**

LD50: oral (Rat): = 5.800 mg/kg

LD50: dermal (Rabbit): > 15.800 mg/kg

LC50: inhalative (Rat): = 76 ppmV (4 h)

#### **Ethanol**

LD50: (Rat): = 10.470 mg/kg; (OECD 401)

LD50: (Rabbit): > 2.000 mg/kg; (OECD 402)



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LC50: (Rat): 117 < x > 125 mg/l (4 h); (OECD 403)

**Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane**

LD50: (Rat): > 5.000 mg/kg; (OECD 401)

LC50: (Rat): > 20 mg/l (4 h); (OECD 403)

LD50: dermal (Rabbit): > 2.000 mg/kg; (OECD 402)

**Xylene**

LD50: oral (Rat): = 3.523 mg/kg

LD50: dermal (Rabbit): = 12.126 mg/kg

LC50: inhalative (Rat): = 27.571 mg/m<sup>3</sup> (4 h)

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation**

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

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

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

**STOT-single exposure**

May cause drowsiness or dizziness.

**STOT-repeated exposure**

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

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**Practical experience/human evidence**

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: Headache, Dizziness, fatigue, amyosthenia, Drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

## SECTION 12: Ecological information

### 12.1 Toxicity

Harmful to aquatic life with long lasting effects.

***Acute (short-term) fish toxicity***

**Acetone**

LC50: (Oncorhynchus mykiss (Rainbow trout)): = 5.540 mg/l (96 h)

**Ethanol**

LC50: (Oncorhynchus mykiss (Rainbow trout)): = 13.000 mg/l (96 h)

Method: OECD 203

**Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane**

LC50: (Oncorhynchus mykiss (Rainbow trout)): = 11,4 mg/l (96 h)

**Xylene**

LC50: (Oncorhynchus mykiss (Rainbow trout)): = 2,6 mg/l (96 h)

***Acute (short-term) toxicity to aquatic algae and cyanobacteria***

**Acetone**

ErC50: = 100 mg/l (96 h)

**Ethanol**

EC50 (Scenedesmus capricornutum): = 12.900 mg/l (48 h)

Method: OECD 201

**Ethanol**



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EC50 (Scenedesmus capricornutum): = 275 mg/l (72 h)  
Method: OECD 201

**Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane**  
EL50: (Pseudokirchneriella subcapitata): = 30 < x > 100 mg/l (72 h)

**Xylene**  
ErC50: = 2,2 mg/l (72 h)

## **Acute (short-term) toxicity to crustacea**

**Acetone**  
EC50 (Daphnia pulex (water flea)): = 8.800 mg/l (48 h)

**Ethanol**  
EC50 (Daphnia magna (Big water flea)): = 12.340 mg/l (48 h)

**Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane**  
EL50: (Daphnia magna (Big water flea)): = 3 mg/l (48 h)

**Xylene**  
EC50 (Daphnia magna (Big water flea)): = 1 mg/l (48 h)

## 12.2 Persistence and degradability

**Ethanol**  
Biodegradation; (Activated sludge) = 70 % (5 d)  
Method: OECD TG 301D  
Readily biodegradable (according to OECD criteria).

**Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane**  
Biodegradation; (Activated sludge) = 81 % (28 d)  
Method: OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D  
Readily biodegradable (according to OECD criteria).

## 12.3 Bioaccumulative potential

- Ethanol**
- \* Partition coefficient: n-octanol/water  
Method: calculated  
Partition coefficient: n-octanol/water = -0,24
  - \* Partition coefficient: n-octanol/water = -0,32

## 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 REACH, annex XIII.

## 12.6 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### **Product/Packaging disposal**

Do not empty into drains; dispose of this material and its container in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

#### **Waste codes/waste designations according to EWC/AVV**

- \* 080111\* - Waste paint and varnish containing organic solvents or other dangerous substances

#### **Other disposal recommendations**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

## SECTION 14: Transport information

### 14.1 UN number

UN 1263

### 14.2 UN proper shipping name

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## Land transport (ADR/RID)

FARBE

## Sea transport (IMDG)

Paint

## Air transport (ICAO-TI / IATA-DGR)

Paint

### 14.3 Transport hazard class(es)

Land transport (ADR/RID)	3
Sea transport (IMDG)	3
Air transport (ICAO-TI / IATA-DGR)	3

### 14.4 Packing group

Land transport (ADR/RID)	II
Sea transport (IMDG)	II
Air transport (ICAO-TI / IATA-DGR)	II

### 14.5 Environmental hazards

Land transport (ADR/RID)	not applicable
Sea transport (IMDG)	not applicable

### 14.6 Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage. Advices on safe handling: see parts 6 - 8

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No transport as bulk according to IBC Code.

### 14.8 Additional information

#### Land transport (ADR/RID)

tunnel restriction code: D/E

#### Sea transport (IMDG)

\* EmS-Code: F-E, S-E

#### Air transport (ICAO-TI / IATA-DGR)

\* not applicable

## SECTION 15: Regulatory information

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

#### EU legislation

##### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

##### Directive 2010/75/EU on industrial emissions

\* VOC-value (in g/L): 714,998 g/l

##### Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

##### Hazard categories / Named dangerous substances

P5c Flammable liquids

Quantity 1: 5.000t; Quantity 2: 50.000t

##### National regulations

### 15.2 Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

REACH No.	Substance name
01-2119471330-49	Acetone
01-2119457610-43	Ethanol
01-2119475514-35	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
01-2119488216-32	Xylene

## SECTION 16: Other information

Relevant R-, H- and EUH-phrases (Number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
H411	Toxic to aquatic life with long lasting effects.

### Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 2	On basis of test data.
Asp. Tox. 1	Calculation method.
Eye Irrit. 2	Calculation method.
STOT SE 3 Narcotic effects	Calculation method.
Skin Irrit. 2	Calculation method.
* Aquatic Chronic 3	Calculation method.

### Abbreviations and acronyms

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

### Indication of changes

\* Data changed compared with the previous version