

**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31**

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V- 3.0 (replaces version 2.1)

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

**1.1 Product identifier**

**Trade name:** CARROSS VERNIS RAPID GLOSS

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

Identified use: professional use.

**Application of the substance / the mixture** Clear coating material, Varnish

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

**Manufacturer/Supplier:**

CARROSS SAS  
16 rue de Serrières  
69540, Irigny, France  
Tel +33 (0)1 60 27 20 19  
contact@carross.eu

**Further information obtainable from:** contact@carross.eu

**1.4 Emergency telephone number:**

+33 (0)1 60 27 20 19 (8:30-18:00 du lundi au jeudi, 9:30-17 le vendredi)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008**



GHS02

Flam. Liq. 3      H226 Flammable liquid and vapour.



GHS07

Eye Irrit. 2      H319 Causes serious eye irritation.

Skin Sens. 1      H317 May cause an allergic skin reaction.

STOT SE 3      H336 May cause drowsiness or dizziness.

Aquatic Chronic 3      H412 Harmful to aquatic life with long lasting effects.

**2.2 Label elements**

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

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms**



GHS02 GHS07

**Signal word** Warning

**Hazard-determining components of labelling:**

n-butyl acetate

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

pentaerythritol tetrakis(3-mercaptopropionate)

dibutylbis(dodecylthio)stannane

**Hazard statements**

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

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H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 Avoid breathing mist/vapours/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Determination of endocrine-disrupting properties**

The product does not contain a substance included in the list established pursuant to Article 59(1) of Regulation (EC) No 1907/2006 as having endocrine disrupting properties or a substance that would be 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 in a quantity  $\geq 0.1\%$ .

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

**3.2 Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

<b>Dangerous components:</b>		
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	25-50%
CAS: 763-69-9 EINECS: 212-112-9 Reg.nr.: 01-2119463267-34	ethyl 3-ethoxypropionate Flam. Liq. 3, H226, EUH066	5-15%
CAS: 107-87-9 EINECS: 203-528-1 Reg.nr.: 01-2119988840-24	pentan-2-one Flam. Liq. 2, H225; Acute Tox. 4, H302; Eye Irrit. 2, H319	2.5-10%
CAS: 65-85-0 EINECS: 200-618-2 Reg.nr.: 01-2119455536-33	Benzoic acid STOT RE 1, H372; Eye Dam. 1, H318; Skin Irrit. 2, H315	0.1-<1%
Reg.nr.: 01-2119491304-40	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate Repr. 2, H361f; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1); Skin Sens. 1A, H317	0.1-<1%
CAS: 7575-23-7 EINECS: 231-472-8 Reg.nr.: 01-2119486981-23	pentaerythritol tetrakis(3-mercaptopropionate) Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302; Skin Sens. 1A, H317	0.1-<0.5%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226; STOT SE 3, H336	0.1-1%
CAS: 1185-81-5 EINECS: 214-688-7 Reg.nr.: 01-2119841260-50	dibutylbis(dodecylthio)stannane Muta. 2, H341; Repr. 1B, H360; STOT RE 1, H372; Aquatic Acute 1, H400 (M=1); Acute Tox. 4, H312; Skin Irrit. 2, H315; Skin Sens. 1, H317	0.1-<0.3%

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**Trade name: CARROSS VERNIS RAPID GLOSS**

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CAS: 110-43-0	heptan-2-one	0.1-<1%
EINECS: 203-767-1	⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H336	
Reg.nr.: 01-2119902391-49		

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

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

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

#### **General information:**

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Take affected persons out of danger area and lay down.

#### **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

#### **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

#### **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

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

No further relevant information available.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

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

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide and carbon dioxide

### **5.3 Advice for firefighters**

#### **Protective equipment:**

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

#### **Additional information**

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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

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

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Avoid contact with the eyes and skin.

### **6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Do not flush with water or aqueous cleansing agents.  
 Dispose of the material collected according to regulations.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.  
 See Section 8 for information on personal protection equipment.  
 See Section 13 for disposal information.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.  
 Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).  
 Do not inhale gases / fumes / aerosols.  
 Avoid contact with the eyes and skin.  
 Do not eat, drink, smoke or sniff while working.  
 Do not allow to enter sewers/ surface or ground water.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.  
 Fumes can combine with air to form an explosive mixture.

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

**Storage:**

**Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

**Information about storage in one common storage facility:**

Store away from foodstuffs.  
 Store away from oxidising agents.

**Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.  
 Store receptacle in a well ventilated area.

**7.3 Specific end use(s)** No further relevant information available.

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

**8.1 Control parameters**

<b>Ingredients with limit values that require monitoring at the workplace:</b>	
<b>123-86-4 n-butyl acetate</b>	
WEL (Great Britain)	Short-term value: 966 mg/m <sup>3</sup> , 200 ppm Long-term value: 724 mg/m <sup>3</sup> , 150 ppm
IOELV (EU)	Short-term value: 723 mg/m <sup>3</sup> , 150 ppm Long-term value: 241 mg/m <sup>3</sup> , 50 ppm
<b>107-87-9 pentan-2-one</b>	
WEL (Great Britain)	Short-term value: 895 mg/m <sup>3</sup> , 250 ppm Long-term value: 716 mg/m <sup>3</sup> , 200 ppm
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
WEL (Great Britain)	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm Long-term value: 274 mg/m <sup>3</sup> , 50 ppm Sk
IOELV (EU)	Short-term value: 550 mg/m <sup>3</sup> , 100 ppm Long-term value: 275 mg/m <sup>3</sup> , 50 ppm Skin
<b>110-43-0 heptan-2-one</b>	
WEL (Great Britain)	Short-term value: 475 mg/m <sup>3</sup> , 100 ppm Long-term value: 237 mg/m <sup>3</sup> , 50 ppm Sk
IOELV (EU)	Short-term value: 475 mg/m <sup>3</sup> , 100 ppm Long-term value: 238 mg/m <sup>3</sup> , 50 ppm Skin

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**Regulatory information**

WEL (Great Britain): EH40/2020

IOELV (EU): (EU) 2019/1831

DNELs		
123-86-4 n-butyl acetate		
Dermal	DNEL	7 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL	960 mg/m3 (acute - systemic effects, workers)
		960 mg/m3 (acute - local effects, workers)
		480 mg/m3 (long-term - systemic effects, workers)
		480 mg/m3 (long-term - local effects, workers)
763-69-9 ethyl 3-ethoxypropionate		
Dermal	DNEL	102 mg/kg bw/day (long-term - systemic effects, workers)
	DNEL	102 mg/cm2 (long-term - local effects, workers)
Inhalative	DNEL	610 mg/m3 (long-term - systemic effects, workers)
		610 mg/m3 (long-term - local effects, workers)
107-87-9 pentan-2-one		
Dermal	DNEL	19.89 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL	4,783.5 mg/m3 (acute - systemic effects, workers)
		209.38 mg/m3 (long-term - systemic effects, workers)
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate		
Dermal	DNEL	2.5 mg/kg bw/day (acute - systemic effects, workers)
		2.5 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL	2.35 mg/m3 (acute - systemic effects, workers)
		2.35 mg/m3 (long-term - systemic effects, workers)
7575-23-7 pentaerythritol tetrakis(3-mercaptopropionate)		
Dermal	DNEL	3.4 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL	40.13 mg/m3 (acute - local effects, workers)
		2.39 mg/m3 (long-term - systemic effects, workers)
		40.13 mg/m3 (long-term - local effects, workers)
108-65-6 2-methoxy-1-methylethyl acetate		
Dermal	DNEL	153.5 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL	275 mg/m3 (long-term - systemic effects, workers)
110-43-0 heptan-2-one		
Dermal	DNEL	54.27 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL	1,516 mg/m3 (acute - systemic effects, workers)
		394.25 mg/m3 (long-term - systemic effects, workers)
PNECs		
123-86-4 n-butyl acetate		
PNEC	0.18 mg/l (freshwater environment)	
	0.018 mg/l (marine environment)	
	0.36 mg/l (intermittent releases)	
	35.6 mg/l (sewage treatment plants)	
PNEC	0.981 mg/kg (freshwater sediment environment)	
763-69-9 ethyl 3-ethoxypropionate		
PNEC	0.0609 mg/l (freshwater environment)	

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PNEC	0.00609 mg/l (marine environment) 0.609 mg/l (intermittent releases) 50 mg/l (sewage treatment plants) 0.419 mg/kg (freshwater sediment environment) 0.048 mg/kg (soil)
<b>Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</b>	
PNEC	0.0022 mg/l (freshwater environment) 0.00022 mg/l (marine environment) 0.009 mg/l (intermittent releases)
PNEC	1.05 mg/kg (freshwater sediment environment) 0.11 mg/kg (marine sediment environment) 0.21 mg/kg (soil)
<b>7575-23-7 pentaerythritol tetrakis(3-mercaptopropionate)</b>	
PNEC	2.39 mg/l (sewage treatment plants)
PNEC	0.03 µg/l (freshwater environment) 0.0034 µg/l (marine environment) 0.34 µg/l (intermittent releases)
PNEC	1.02 µg/kg (freshwater sediment environment) 0.102 µg/kg (marine sediment environment) 0.184 µg/kg (soil)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
PNEC	0.635 mg/l (freshwater environment) 0.0635 mg/l (marine environment) 6.35 mg/l (intermittent releases) 100 mg/l (sewage treatment plants)
PNEC	3.29 mg/kg (freshwater sediment environment) 0.329 mg/kg (marine sediment environment)
<b>110-43-0 heptan-2-one</b>	
PNEC	0.0982 mg/l (freshwater environment) 0.00982 mg/l (marine environment) 0.982 mg/l (intermittent releases) 12.5 mg/l (sewage treatment plants)
PNEC	1.89 mg/kg (freshwater sediment environment) 0.189 mg/kg (marine sediment environment) 0.321 mg/kg (soil)

**Additional information:** The lists valid during the making were used as basis.

## 8.2 Exposure controls

**Appropriate engineering controls** No further data; see section 7.

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

**General protective and hygienic measures:**

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Keep ignition sources away - Do not smoke.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

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**Trade name: CARROSS VERNIS RAPID GLOSS**

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Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.  
Do not eat or drink while working.

**Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

A2/P2 filter (EN 14387)

**Hand protection**



Protective gloves

Check the permeability prior to each renewed use of the glove.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

When choosing protective gloves, the breakthrough time, rate of penetration and degradation (EN 374) should be taken into account.

**Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

PVA gloves

Recommended material thickness:  $\geq 0.7$  mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

Permeation level and breakthrough time: level 6  $\geq 480$  min.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye/face protection**



Tightly sealed goggles (EN 166 / EN 170)

**Body protection:** Protective work clothing (EN 14325)

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**General Information**

**Physical state**

Liquid

**Colour:**

slightly yellow

**Odour:**

Characteristic

**Odour threshold:**

Not determined.

**Melting point/freezing point:**

Undetermined.

**Boiling point or initial boiling point and boiling range**

Undetermined.

**Flammability**

Flammable.

**Lower and upper explosion limit**

**Lower:**

1.2 Vol %

**Upper:**

8 Vol %

**Flash point:**

$>23$  °C

**Decomposition temperature:**

Not determined.

**pH**

Not applicable.

**Viscosity:**

**Kinematic viscosity**

Not determined.

**Dynamic:**

Not determined.

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<b>Solubility</b>	
<b>water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>Vapour pressure at 20 °C:</b>	8 hPa
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	1-1.01 g/cm <sup>3</sup>
<b>Vapour density</b>	Not determined.
<b>9.2 Other information</b>	
<b>Appearance:</b>	
<b>Form:</b>	Fluid
<b>Important information on protection of health and environment, and on safety.</b>	
<b>Ignition temperature:</b>	Not determined.
<b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<b>Change in condition</b>	
<b>Evaporation rate</b>	Not determined.
<b>Information with regard to physical hazard classes</b>	
<b>Explosives</b>	Void
<b>Flammable gases</b>	Void
<b>Aerosols</b>	Void
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	Flammable liquid and vapour.
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

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

**10.1 Reactivity** No decomposition if used according to specifications.

**10.2 Chemical stability** No decomposition if used and stored according to specifications.

**10.3 Possibility of hazardous reactions**

Reacts with alkali, amines and strong acids.

Reacts with oxidising agents.

Fumes can combine with air to form an explosive mixture.

**10.4 Conditions to avoid** Protect from heat and direct sunlight.

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:**

Carbon monoxide and carbon dioxide

Formation of toxic gases is possible during heating or in case of fire.

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\* **SECTION 11: Toxicological information**

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

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

<b>LD/LC50 values relevant for classification:</b>		
<b>123-86-4 n-butyl acetate</b>		
Oral	LD50	10,760 mg/kg (rat)
Dermal	LD50	>14,000 mg/kg (rabbit)
Inhalative	LC50/4 h	23.4 mg/l (rat)
<b>763-69-9 ethyl 3-ethoxypropionate</b>		
Oral	LD50	4,309 mg/kg (rat)
Dermal	LD50	4,080 mg/kg (rabbit)
<b>107-87-9 pentan-2-one</b>		
Oral	LD50	1,600 mg/kg (rat)
Inhalative	LC50/4 h	>25.5 mg/l (rat)
<b>65-85-0 Benzoic acid</b>		
Oral	LD50	1,700 mg/kg (rat)
<b>Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</b>		
Oral	LD50	3,230 mg/kg (rat)
Dermal	LD50	>3,170 mg/kg (rat)
<b>7575-23-7 pentaerythritol tetrakis(3-mercaptopropionate)</b>		
Oral	LD50	1,000-2,000 mg/kg (rat)
Inhalative	LC50/4 h	>3,363 mg/l (rat)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/6 h	4,345 mg/l (rat)
<b>1185-81-5 dibutylbis(dodecylthio)stannane</b>		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	1,000-2,000 mg/kg (rabbit)
<b>110-43-0 heptan-2-one</b>		
Oral	LD50	1,600 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>16.7 mg/l (rat) (vapour)

**Primary irritant effect:**

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation** Causes serious eye irritation.

**Respiratory or skin sensitisation** May cause an allergic skin reaction.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

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

**STOT-single exposure** May cause drowsiness or dizziness.

**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.

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**Trade name: CARROSS VERNIS RAPID GLOSS**

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## 11.2 Information on other hazards

### Endocrine disrupting properties

None of the ingredients is listed.

## \* SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity:

#### 123-86-4 n-butyl acetate

LC50/96 h	18 mg/l (fish)
TT/16 h	115 mg/l (microorganisms)
EC50/48 h	44 mg/l (daphnia)
EC50/72 h	675 mg/l (algae)

#### 763-69-9 ethyl 3-ethoxypropionate

LC50/96 h	60.9 mg/l (fish)
EC50/48 h	785 mg/l (Daphnia magna)
EC50/72 h	>114.86 mg/l (algae)

#### 107-87-9 pentan-2-one

LC50/96 h	1,240 mg/l (fish)
EC50/48 h	110 mg/l (Daphnia magna)
EC50/72 h	>150 mg/l (algae)

#### Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

LC50/96 h	0.97 mg/l (fish)
EC50/3 h	>100 mg/l (microorganisms)
EC50/72 h	1.68 mg/l (Desmodesmus subspicatus)
EC50/24 h	20 mg/l (Daphnia magna)

#### 7575-23-7 pentaerythritol tetrakis(3-mercaptopropionate)

LC50/96 h	0.034 mg/l (Oncorhynchus mykiss) (OECD 203)
EC50/48 h	>0.35 mg/l (Daphnia magna)
EC50	>0.65 mg/l (Desmodesmus subspicatus)

#### 108-65-6 2-methoxy-1-methylethyl acetate

LC50/96 h	>100 mg/l (fish)
EC50/48 h	>500 mg/l (Daphnia magna)
EC20/30 min	>1,000 mg/l (microorganisms)
EC50/72 h	>1,000 mg/l (algae)
EC50	>100 mg/l (algae)
	>100 mg/l (fish)
	>100 mg/l (Daphnia magna)

#### 1185-81-5 dibutylbis(dodecylthio)stannane

EC50/48 h	0.11 mg/l (Daphnia magna)
EC50/72 h	≥1.6 mg/l (Scenedesmus subspicatus)

#### 110-43-0 heptan-2-one

LC50/96 h	131 mg/l (fish)
EC50/72 h	98.2 mg/l (algae)

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<b>12.2 Persistence and degradability</b>	
<b>123-86-4 n-butyl acetate</b>	
Biodegradation	83 % (readily biodegradable) (OECD 301 D, 28 d, aerobic)
<b>763-69-9 ethyl 3-ethoxypropionate</b>	
Biodegradation	100 % (readily biodegradable) (CO2 Evolution Test, 28 d)
<b>107-87-9 pentan-2-one</b>	
Biodegradation	70 % (readily biodegradable) (OECD 301 D, 28 d, aerobic)
<b>Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</b>	
Biodegradation	38 % (not readily biodegradable) (OECD 301 F, 28 d, aerobic)
<b>7575-23-7 pentaerythritol tetrakis(3-mercaptopropionate)</b>	
Biodegradation	26 % (not readily biodegradable) (OECD 301 B, 28 d, aerobic)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
Biodegradation	100 % (readily biodegradable) (OECD 302 B, 8 d, aerobic)
<b>1185-81-5 dibutylbis(dodecylthio)stannane</b>	
Biodegradation	0 % (not readily biodegradable) (OECD 301 F, 28 d, aerobic)
<b>110-43-0 heptan-2-one</b>	
Biodegradation	69 % (readily biodegradable) (OECD 310, 28 d, aerobic)
<b>12.3 Bioaccumulative potential</b>	
<b>123-86-4 n-butyl acetate</b>	
BCF	15.3 (-)
log Pow	2.3
<b>763-69-9 ethyl 3-ethoxypropionate</b>	
log Pow	1.35
<b>107-87-9 pentan-2-one</b>	
log Kow	0.857
<b>Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</b>	
BCF	<9.7
<b>7575-23-7 pentaerythritol tetrakis(3-mercaptopropionate)</b>	
BCF	23.7
log Pow	3.03
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
log Pow	0.56
<b>12.4 Mobility in soil</b>	
<b>123-86-4 n-butyl acetate</b>	
log Koc	1.27
<b>763-69-9 ethyl 3-ethoxypropionate</b>	
log Koc	1.52
Koc	32.78
<b>Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</b>	
log Koc	5.31
Koc	204,400

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<b>7575-23-7 pentaerythritol tetrakis(3-mercaptopropionate)</b>	
log K <sub>oc</sub>	2.54
K <sub>oc</sub>	347
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
K <sub>oc</sub>	1.7

#### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

#### 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

#### 12.7 Other adverse effects

**Additional ecological information:**

**General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

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

#### 13.1 Waste treatment methods

**Recommendation**


Must not be disposed together with household garbage. Do not allow product to reach sewage system.

<b>European waste catalogue</b>	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

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

<b>14.1 UN number or ID number</b>	
<b>ADR, IMDG, IATA</b>	UN1263
<b>14.2 UN proper shipping name</b>	
<b>ADR</b>	1263 PAINT
<b>IMDG, IATA</b>	PAINT
<b>14.3 Transport hazard class(es)</b>	
<b>ADR, IMDG, IATA</b>	
	
<b>Class</b>	3
<b>Label</b>	3
<b>14.4 Packing group</b>	
<b>ADR, IMDG, IATA</b>	III
<b>14.5 Environmental hazards:</b>	
<b>Marine pollutant (IMDG):</b>	Not applicable. No
<b>14.6 Special precautions for user</b>	
Warning: Flammable liquids.	
<b>Hazard identification number (Kemler code):</b> 30	
<b>EMS Number:</b>	
F-E, S-E	
<b>Stowage Category</b>	
A	

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<b>14.7 Maritime transport in bulk according to IMO instruments</b>		Not applicable.
<b>Transport/Additional information:</b>		
<b>ADR</b>		
Limited quantities (LQ)		5L
Transport category		3
Tunnel restriction code		D/E
<b>IMDG</b>		
Limited quantities (LQ)		5L
<b>UN "Model Regulation":</b>		UN 1263 PAINT, 3, III

## **SECTION 15: Regulatory information**

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

#### **Poisons Act**

<b>Regulated explosives precursors</b>
None of the ingredients is listed.
<b>Regulated poisons</b>
None of the ingredients is listed.
<b>Reportable explosives precursors</b>
None of the ingredients is listed.
<b>Reportable poisons</b>
None of the ingredients is listed.

#### **Directive 2012/18/EU**

**Named dangerous substances - ANNEX I** None of the ingredients is listed.

**Seveso category** P5c FLAMMABLE LIQUIDS

**Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t

**Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

#### **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

<b>Regulation (EU) No 649/2012</b>		
1185-81-5	dibutylbis(dodecylthio)stannane	Annex I Part 1
<b>DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II</b>		
None of the ingredients is listed.		

#### **REGULATION (EU) 2019/1148**

<b>Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))</b>	
None of the ingredients is listed.	
<b>Annex II - REPORTABLE EXPLOSIVES PRECURSORS</b>	
None of the ingredients is listed.	
<b>Regulation (EC) No 273/2004 on drug precursors</b>	
None of the ingredients is listed.	
<b>Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors</b>	
None of the ingredients is listed.	

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**National regulations:**

**Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

The above information is based on currently available data characterising the product. They do not constitute a guarantee or quality specification. It should be regarded as a guideline for safe use, storage, transport, disposal in case of release into the environment. It is the responsibility of the user to create conditions for the safe use of the product and the user accepts responsibility for any consequences resulting from improper use of this product.

**Relevant phrases**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H341 Suspected of causing genetic defects.

H360 May damage fertility or the unborn child.

H361f Suspected of damaging fertility.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

<b>Classification according to Regulation (EC) No 1272/2008</b>	
Flammable liquids	Bridging principles
Serious eye damage/irritation Skin sensitisation Specific target organ toxicity (single exposure) Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

**Version number of previous version: 2.1**

**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: chemical number assigned to the chemical in the Chemical Abstracts Service list

DNEL: Derived No-Effect Level

PNEC: Predicted No-Effect Concentration

LC50: median lethal concentration

LD50: lethal dose 50%

PBT: persistent, bioaccumulative and toxic

vPvB: very persistent and very bioaccumulative

Flam. Liq. 2: Flammable liquid substance. Hazard category 2

Flam. Liq. 3: Flammable liquid substance. Hazard category 3

Acute Tox. 4: Acute toxicity. Hazard category 4

Skin Irrit. 2: Skin corrosion/irritation. Hazard category 2

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Eye Dam. 1: Serious eye damage/eye irritation. Hazard category 1  
Eye Irrit. 2: Serious eye damage/eye irritation. Hazard category 2  
Skin Sens. 1: Skin sensitisation. Hazard category 1  
Skin Sens. 1A: Skin sensitisation. Hazard category 1A  
Muta. 2: Mutagenic effect on germ cells. Hazard category 2  
Repr. 1B: Reproductive toxicity. Hazard category 1B  
Repr. 2: Reproductive toxicity. Hazard category 2  
STOT SE 3: Toxic effects on target organs - single exposure. Hazard category 3  
STOT RE 1: Toxic effects on target organs - repeated exposure. Hazard category 1  
Aquatic Acute 1: Presenting a hazard to the aquatic environment - acute hazard, Category 1  
Aquatic Chronic 1: Presenting a hazard to the aquatic environment. Chronic hazard, Category 1  
Aquatic Chronic 3: Presenting a hazard to the aquatic environment. Chronic hazard, Category 3

**Sources** European Chemicals Agency, <http://echa.europa.eu/>

**\* Data compared to the previous version altered.**