

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

Trade name: Tampa® Star

1 L TPR 122

Version: 5 / WORLD

Date revised: 09.01.2015

Substance number: 380357122

Replaces Version: 4 / WORLD

Print date: 17.01.15



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

**1.1. Product identifier**

Tampa® Star

1 L TPR 122

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

**Use of the substance/preparation**

Pad printing ink

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

**Address**

Marabu GmbH & Co. KG

Asperger Strasse 4

71732 Tamm

Germany

Telephone no. +49-7141/691-0

Fax no. +49-7141/691-147

Information Department product safety

provided by /

telephone

E-mail address of PRSI@marabu.de

person

responsible for

this SDS

**1.4. Emergency telephone number**

(+49) (0)621-60-43333

**SECTION 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

Eye Dam. 1 H318

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

Classification Xi, R36

**2.2. Label elements**

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

**Hazard pictograms**



**Signal word**

Danger

**Hazard statements**

H226

Flammable liquid and vapour.

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H318 Causes serious eye damage.

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
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.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor.  
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)

contains Butyl glycolate;Cyclohexanone

### 2.3. Other hazards

No special hazards have to be mentioned.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Pad printing ink based on acrylic resins and on solvents

#### Hazardous ingredients

##### Solvent naphtha (petroleum), light arom.

CAS No. 64742-95-6  
EINECS no. 265-199-0  
Registration no. 01-2119455851-35 (LIST NUMBER 918-668-5)  
Concentration  $\geq$  1 < 2,5 %  
Classification Xn, R65  
Xi, R37  
N, R51/53  
R10  
R66  
R67

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

Flam. Liq. 3 H226  
STOT SE 3 H336  
STOT SE 3 H335  
Asp. Tox. 1 H304  
Aquatic chronic 2 H411

##### Polyester of phosphoric acid (72243-070628, Germany)

Concentration  $\geq$  1 < 2,5 %  
Classification Xi, R36

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

Eye Irrit. 2 H319

##### Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

CAS No. 64742-82-1  
EINECS no. 265-185-4  
Concentration  $\geq$  0,25 < 0,5 %  
Classification Xn, R65

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

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N, R51/53  
R10  
R66  
R67

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

Flam. Liq. 3	H226
Asp. Tox. 1	H304
Aquatic chronic 2	H411
STOT SE 3	H336

**Butyl glycolate**

CAS No.	7397-62-8
EINECS no.	230-991-7
Registration no.	01-2119514685-36
Concentration	>= 1 < 2,5 %
Classification	Xi, R41 Repr.Cat.3, R63

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

Eye Dam. 1	H318
Repr. 2	H361d

**4-Hydroxy-4-methylpentan-2-one**

CAS No.	123-42-2
EINECS no.	204-626-7
Registration no.	01-2119473975-21
Concentration	>= 10 < 20 %
Classification	Xi, R36/37

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

Flam. Liq. 3	H226
Eye Irrit. 2	H319
STOT SE 3	H335

## Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2	H319	>= 10
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**2-Butoxyethyl acetate**

CAS No.	112-07-2
EINECS no.	203-933-3
Registration no.	01-2119475112-47
Concentration	>= 5 < 7 %
Classification	Xn, R20/21/22

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

Acute Tox. 4	H332
Acute Tox. 4	H312
Acute Tox. 4	H302

**Cyclohexanone**

CAS No.	108-94-1
EINECS no.	203-631-1
Registration no.	01-2119453616-35
Concentration	>= 3 < 5 %
Classification	Xn, R20/21/22 Xi, R38-R41

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

Trade name: Tampa® Star

1 L TPR 122

Version: 5 / WORLD

Date revised: 09.01.2015

Substance number: 380357122

Replaces Version: 4 / WORLD

Print date: 17.01.15



R10

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

Acute Tox. 4	H332
Flam. Liq. 3	H226
Acute Tox. 4	H302
Acute Tox. 4	H312
Eye Dam. 1	H318
Skin Irrit. 2	H315

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

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

#### **General information**

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

#### **After inhalation**

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

#### **After skin contact**

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

#### **After eye contact**

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

#### **After ingestion**

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

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

Until now no symptoms known so far.

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

#### **Hints for the physician / treatment**

Treat symptomatically

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Recommended: alcohol resistant foam, CO<sub>2</sub>, powders, water spray/mist, Not be used for safety reasons: water jet

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

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); dense black smoke; Hydrogen chloride (HCl); Nitrogen oxides (NO<sub>x</sub>)

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighting**

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

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

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

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

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.

### **6.2. Environmental precautions**

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

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

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

### **6.4. Reference to other sections**

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

## **SECTION 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. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparks and open flame. No sparking tools should be used. Avoid skin and eye contact. Avoid the inhalation of particulates and spray mist arising from the application of this mixture. Smoking, eating and drinking shall be prohibited in application area. For personal protection see Section 8. Never use pressure to empty: container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or water courses.

#### **Advice on protection against fire and explosion**

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

#### **Classification of fires / temperature class / Ignition group / Dust explosion class**

Classification of fires	B (Combustible liquid substances)
Temperature class	T3

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

#### **Requirements for storage rooms and vessels**

Electrical installations/working materials must comply with the local applied technological safety standards. Storage rooms in which filling operations take place must have a conducting floor. Store in accordance with national regulation

#### **Hints on storage assembly**

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

#### **Further information on storage conditions**

Observe label precautions. Store between 15 and 30 °C in a dry, well ventilated place away from sources of heat and direct sunlight. Keep container tightly closed. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed

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Replaces Version: 4 / WORLD

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and kept upright to prevent leakage.

**7.3. Specific end use(s)**

Pad printing ink

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

**8.1. Control parameters**

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

**4-Hydroxy-4-methylpentan-2-one**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	240	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	66,4	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	9,4	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	120	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	11,8	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	11,8	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	

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



Trade name: Tampa® Star

1 L TPR 122

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Replaces Version: 4 / WORLD

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Mode of action	Systemic effects	
Concentration	3,4	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	3,4	mg/kg/d
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	66,4	mg/m <sup>3</sup>

**2-Methoxy-1-methylethyl acetate**

Reference substance	2-Methoxy-1-methylethyl acetate	
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	153,5	mg/kg
Source	Literature value	

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	275	mg/m <sup>3</sup>
Source	Literature value	

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	54,8	mg/kg
Source	Literature value	

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	33	mg/m <sup>3</sup>
Source	Literature value	

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	1,67	mg/kg

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



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Print date: 17.01.15

Source Literature value

**Solvent naphtha (petroleum), light arom.**

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Duration of exposure Long term  
 Route of exposure oral  
 Mode of action Systemic effects  
 Concentration 11 mg/kg

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Duration of exposure Long term  
 Route of exposure dermal  
 Mode of action Systemic effects  
 Concentration 11 mg/kg

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action Systemic effects  
 Concentration 32 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action Systemic effects  
 Concentration 150 mg/m<sup>3</sup>

**Butyl glycolate**

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Long term  
 Route of exposure dermal  
 Mode of action Systemic effects  
 Concentration 34,7 mg/kg

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action Systemic effects  
 Concentration 21,2 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Duration of exposure Long term  
 Route of exposure oral  
 Mode of action Systemic effects  
 Concentration 2 mg/kg

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Duration of exposure Long term



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1 L TPR 122

Version: 5 / WORLD

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Replaces Version: 4 / WORLD

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Route of exposure dermal  
 Mode of action Systemic effects  
 Concentration 20,8 mg/kg

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Duration of exposure Long term  
 Route of exposure dermal  
 Mode of action Local effects  
 Concentration 0,28 mg/kg

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action Systemic effects  
 Concentration 43,5 mg/m<sup>3</sup>

**2-Butoxyethyl acetate**

Reference substance 2-Butoxyethyl acetate  
 Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Route of exposure dermal  
 Mode of action Acute effects  
 Concentration 102 mg/kg  
 Source Literature value

Type of value 2-Butoxyethyl acetate  
 Derived No Effect Level (DNEL)  
 Reference group Worker  
 Route of exposure inhalative  
 Mode of action Acute effects  
 Concentration 775 mg/kg  
 Source Literature value

Type of value 2-Butoxyethyl acetate  
 Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Route of exposure dermal  
 Mode of action Acute effects  
 Concentration 27 mg/kg  
 Source Literature value

Type of value 2-Butoxyethyl acetate  
 Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Route of exposure inhalative  
 Concentration 499 mg/kg  
 Source Literature value

Type of value 2-Butoxyethyl acetate  
 Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Route of exposure oral  
 Mode of action Acute effects  
 Concentration 18 mg/kg

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



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1 L TPR 122

Version: 5 / WORLD

Date revised: 09.01.2015

Substance number: 380357122

Replaces Version: 4 / WORLD

Print date: 17.01.15

Source Literature value  
 2-Butoxyethyl acetate  
 Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Route of exposure inhalative  
 Mode of action Local effects  
 Concentration 166 mg/kg  
 Source Literature value

2-Butoxyethyl acetate  
 Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Route of exposure dermal  
 Mode of action Chronic effects  
 Concentration 36 mg/kg  
 Source Literature value

2-Butoxyethyl acetate  
 Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Route of exposure inhalative  
 Mode of action Chronic effects  
 Concentration 67 mg/kg  
 Source Literature value

2-Butoxyethyl acetate  
 Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Route of exposure oral  
 Mode of action Chronic effects  
 Concentration 4,3 mg/kg  
 Source Literature value

2-Butoxyethyl acetate  
 Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Route of exposure dermal  
 Mode of action Chronic effects  
 Concentration 102 mg/kg  
 Source Literature value

2-Butoxyethyl acetate  
 Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Route of exposure inhalative  
 Mode of action Chronic effects  
 Concentration 133 mg/kg  
 Source Literature value

**Cyclohexanone**

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action Systemic effects

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



Trade name: Tampa® Star

1 L TPR 122

Version: 5 / WORLD

Date revised: 09.01.2015

Substance number: 380357122

Replaces Version: 4 / WORLD

Print date: 17.01.15

Concentration 100 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Short term  
 Route of exposure inhalative  
 Mode of action Local effects  
 Concentration 100 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Long term  
 Route of exposure dermal  
 Mode of action Systemic effects  
 Concentration 10 mg/kg/d

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Short term  
 Route of exposure dermal  
 Mode of action Systemic effects  
 Concentration 100 mg/kg/d

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Duration of exposure Short term  
 Route of exposure inhalative  
 Mode of action Systemic effects  
 Concentration 50 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Duration of exposure Short term  
 Route of exposure inhalative  
 Mode of action Local effects  
 Concentration 50 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Duration of exposure Short term  
 Route of exposure dermal  
 Mode of action Systemic effects  
 Concentration 30 mg/kg/d

Type of value Derived No Effect Level (DNEL)  
 Reference group Consumer  
 Duration of exposure Short term  
 Route of exposure oral  
 Mode of action Systemic effects  
 Concentration 10 mg/kg/d

**Predicted No Effect Concentration (PNEC)**

**4-Hydroxy-4-methylpentan-2-one**

Type of value PNEC  
 Type Freshwater  
 Concentration 2 mg/kg

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



Trade name: Tampa® Star

1 L TPR 122

Version: 5 / WORLD

Date revised: 09.01.2015

Substance number: 380357122

Replaces Version: 4 / WORLD

Print date: 17.01.15

Type of value	PNEC		
Type	Saltwater		
Concentration	0,2		mg/kg
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	82		mg/kg
Type of value	PNEC		
Type	Freshwater sediment		
Concentration	9,06		mg/kg/d
Type of value	PNEC		
Type	Marine sediment		
Concentration	0,91		mg/kg/d
Type of value	PNEC		
Type	Soil		
Concentration	0,63		mg/kg/d

**2-Methoxy-1-methylethyl acetate**

Reference substance	2-Methoxy-1-methylethyl acetate		
Type of value	PNEC		
Type	Freshwater		
Concentration	0,635		mg/l
Source	Literature value		
Type of value	PNEC		
Type	Freshwater sediment		
Concentration	3,29		mg/kg
Source	Literature value		
Type of value	PNEC		
Type	Soil		
Concentration	0,29		mg/kg
Source	Literature value		
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	100		mg/l
Source	Literature value		
Type of value	PNEC		
Type	Marine sediment		
Concentration	0,329		mg/kg
Source	Literature value		
Type of value	PNEC		
Type	Saltwater		
Concentration	0,0635		mg/l

**Butyl glycolate**

Type of value	PNEC		
Type	Freshwater		
Concentration	0,05		mg/l

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



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1 L TPR 122

Version: 5 / WORLD

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Replaces Version: 4 / WORLD

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Type of value PNEC  
 Type Soil  
 Concentration 0,0112 mg/kg

Type of value PNEC  
 Type Freshwater sediment  
 Concentration 0,203 mg/kg

Type of value PNEC  
 Type Sewage treatment plant (STP)  
 Concentration 232 mg/l

**2-Butoxyethyl acetate**

Reference substance 2-Butoxyethyl acetate  
 Type of value PNEC  
 Type Water  
 Concentration 0,304 mg/l  
 Source Literature value

Type of value 2-Butoxyethyl acetate  
 Type PNEC  
 Type Aquatic  
 Concentration 0,0304 g/l  
 Source Literature value

Type of value 2-Butoxyethyl acetate  
 Type PNEC  
 Type Sediment  
 Concentration 2,03 mg/kg  
 Source Literature value

Type of value 2-Butoxyethyl acetate  
 Type PNEC  
 Type Marine sediment  
 Concentration 0,203 mg/kg  
 Source Literature value

Type of value 2-Butoxyethyl acetate  
 Type PNEC  
 Type Soil  
 Concentration 0,68 mg/kg  
 Source Literature value

**Cyclohexanone**

Type of value PNEC  
 Type Freshwater  
 Concentration 0,0329 mg/l

Type of value PNEC  
 Type Saltwater  
 Concentration 0,00329 mg/l

Type of value PNEC  
 Type Water (intermittent release)  
 Concentration 0,329 mg/l

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

Trade name: Tampa® Star

1 L TPR 122

Version: 5 / WORLD

Date revised: 09.01.2015

Substance number: 380357122

Replaces Version: 4 / WORLD

Print date: 17.01.15



Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	10	mg/l	
Type of value	PNEC		
Type	Freshwater sediment		
Concentration	0,0951	mg/kg	
Type of value	PNEC		
Type	Soil		
Concentration	0,0143	mg/kg	

## 8.2. Exposure controls

### Exposure controls

Provide adequate ventilation. 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

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Full mask, filter A

### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required.

Material thickness > 0,5 mm

Breakthrough time < 30 min

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

### Eye protection

Use safety eyewear designed to protect against splash of liquids.

### Body protection

Cotton or cotton/synthetic overalls or coveralls are normally suitable.

## SECTION 9: Physical and chemical properties

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

<b>Form</b>	Pasty
<b>Colour</b>	coloured
<b>Odour</b>	solvent-like
<b>Odour threshold</b>	
Remarks	No data available
<b>pH value</b>	
Remarks	Not applicable

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

Trade name: Tampa® Star

1 L TPR 122

Version: 5 / WORLD

Date revised: 09.01.2015

Substance number: 380357122

Replaces Version: 4 / WORLD

Print date: 17.01.15

**Melting point**

Remarks not determined

**Freezing point**

Remarks not determined

**Initial boiling point and boiling range**Value  $\geq$  148 °C  
Source Literature value**Flash point**Value 57 °C  
Method ASTM D 6450 (CCCFP)**Evaporation rate (ether = 1) :**

Remarks not determined

**Flammability (solid, gas)**

Not applicable

**Upper/lower flammability or explosive limits**Lower explosion limit 0,9 %(V)  
Upper explosion limit 10,8 %(V)  
Source Literature value**Vapour pressure**Value appr. 3 hPa  
Temperature 20 °C  
Method calculated**Vapour density**

Remarks not determined

**Density**Value 1,350 g/cm<sup>3</sup>  
Temperature 20 °C  
Method DIN EN ISO 2811**Solubility in water**

Remarks partially miscible

**Partition coefficient: n-octanol/water**

Remarks Not applicable

**Ignition temperature**Value 280 °C  
Source Literature value**Efflux time**Value  $>$  150 s  
Method DIN 53211 4 mm**Explosive properties**

evaluation no

**Oxidising properties**

evaluation None known

**9.2. Other information****Other information**

The physical specifications are approximate values and refer to the used safety relevant component(s).



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

### **10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

### **10.2. Chemical stability**

Stable under recommended storage and handling conditions (see section 7).

### **10.3. Possibility of hazardous reactions**

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

### **10.4. Conditions to avoid**

When exposed to high temperatures may produce hazardous decomposition products.

### **10.5. Incompatible materials**

No hazardous reactions when stored and handled according to prescribed instructions.

### **10.6. Hazardous decomposition products**

See chapter 5.2 (Firefighting measures - Special hazards arising from the substance or mixture).

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute oral toxicity**

ATE	>	2.000	mg/kg
Method		calculated value (Regulation (EC) No. 1272/2008)	

#### **Acute oral toxicity (Components)**

##### **4-Hydroxy-4-methylpentan-2-one**

Species	rat		
LD50		3002	mg/kg
Method		OECD 401	

#### **Acute dermal toxicity**

ATE	>	2.000	mg/kg
Method		calculated value (Regulation (EC) No. 1272/2008)	

#### **Acute dermal toxicity (Components)**

##### **4-Hydroxy-4-methylpentan-2-one**

Species	rabbit		
LD50		13500	mg/kg

#### **Acute inhalational toxicity**

ATE	>	20	mg/l
Administration/Form		Vapors	
Method		calculated value (Regulation (EC) No. 1272/2008)	
ATE	>	5	mg/l
Administration/Form		Dust/Mist	
Method		calculated value (Regulation (EC) No. 1272/2008)	

#### **Acute inhalative toxicity (Components)**

##### **4-Hydroxy-4-methylpentan-2-one**

Species	rat		
LDO		7,6	mg/l
Duration of exposure		4	h
Administration/Form		Vapors	



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

Trade name: Tampa® Star

1 L TPR 122

Version: 5 / WORLD

Date revised: 09.01.2015

Substance number: 380357122

Replaces Version: 4 / WORLD

Print date: 17.01.15



Method OECD 403

### Sensitization (Components)

#### 4-Hydroxy-4-methylpentan-2-one

Species guinea pig  
evaluation non-sensitizing  
Method OECD 406

### Experience in practice

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation. Causes serious eye damage. Ingestion may cause nausea, diarrhoea and vomiting. Ingredient butyl glycolate may possibly cause harm to the unborn child if ingested. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

### Other information

There are no data available on the mixture itself.

The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### General information

There are no data available on the mixture itself. Do not allow to enter drains or water courses. The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details.

#### Fish toxicity (Components)

##### 4-Hydroxy-4-methylpentan-2-one

Species red killifish  
LC50 > 100 mg/l  
Duration of exposure 96 h

##### 4-Hydroxy-4-methylpentan-2-one

Species Menicia beryllina  
LC50 420000 µg/l

#### Daphnia toxicity (Components)

##### 4-Hydroxy-4-methylpentan-2-one

Species Daphnia magna  
EC50 > 1000 mg/l  
Duration of exposure 48 h

#### Algae toxicity (Components)

##### 4-Hydroxy-4-methylpentan-2-one

Species Desmodesmus  
ErC50 > 1000 mg/l  
Duration of exposure 72 h

##### 4-Hydroxy-4-methylpentan-2-one

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

Trade name: Tampa® Star

1 L TPR 122

Version: 5 / WORLD

Date revised: 09.01.2015

Substance number: 380357122

Replaces Version: 4 / WORLD

Print date: 17.01.15



Species	Desmodesmus		
NOEC	1000		mg/l
Duration of exposure	72	h	

### 12.2. Persistence and degradability

#### General information

No data available

#### Biodegradability (Components)

##### 4-Hydroxy-4-methylpentan-2-one

Value	98,51		%
Duration of test evaluation	28	d	
Readily biodegradable (according to OECD criteria)			

### 12.3. Bioaccumulative potential

#### General information

There are no data available on the mixture itself.

#### Partition coefficient: n-octanol/water

Remarks Not applicable

### 12.4. Mobility in soil

#### General information

There are no data available on the mixture itself.

### 12.5. Results of PBT and vPvB assessment

#### General information

There are no data available on the mixture itself.

### 12.6. Other adverse effects

#### General information

There are no data available on the mixture itself.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### Disposal recommendations for the product

Do not allow to enter drains or water courses.  
Wastes and emptied containers should be classified in accordance with relevant national regulation.  
The European Waste Catalogue classification of this product, when disposed of as waste is  
EWC waste code 08 03 12\* waste ink containing dangerous substances  
If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.  
For further information contact your local waste authority.

#### Disposal recommendations for packaging

Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.  
Empty containers must be scrapped or reconditioned.  
Not emptied containers are hazardous waste (waste code number 150110).

## **SECTION 14: Transport information**

### Land transport ADR/RID

#### 14.1. UN number

UN 1263

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

Trade name: Tampa® Star

1 L TPR 122

Version: 5 / WORLD

Date revised: 09.01.2015

Substance number: 380357122

Replaces Version: 4 / WORLD

Print date: 17.01.15



### 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

Remarks The product is viscous; non-dangerous good in Containers with a capacity <= 450 ltrs.

Limited Quantity 5 I

Transport category 3

### 14.5. Environmental hazards

-

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

Remarks Transport according to 2.3.2.5 of the IMDG Code

### 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

### 14.5. Environmental hazards

-

## Information for all modes of transport

### 14.6. Special precautions for user

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Other information

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

no

## SECTION 15: Regulatory information

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

#### Other information

The product does not contain substances of very high concern (SVHC).

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

Trade name: Tampa® Star

1 L TPR 122

Version: 5 / WORLD

Date revised: 09.01.2015

Substance number: 380357122

Replaces Version: 4 / WORLD

Print date: 17.01.15



### Other information

All components are contained in the TSCA inventory or exempted.  
All components are contained in the AICS inventory.  
All components are contained in the PICCS inventory.  
All components are contained in the DSL inventory.  
All components are contained in the ENCS inventory.  
All components are contained in the ECL inventory.

### 15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### R-phrases listed in Chapter 3

10	Flammable.
20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
36	Irritating to eyes.
36/37	Irritating to eyes and respiratory system.
37	Irritating to respiratory system.
38	Irritating to skin.
41	Risk of serious damage to eyes.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
63	Possible risk of harm to the unborn child.
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

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.

### CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin irritation, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

### Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.  
The information in this Safety Data Sheet is based on the present state of knowledge and current

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

Trade name: Tampa® Star

1 L TPR 122

Version: 5 / WORLD

Date revised: 09.01.2015

Substance number: 380357122

Replaces Version: 4 / WORLD

Print date: 17.01.15



legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.