

*****Section 1 - IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING*******1.1 Product Identifier:****Material Name:** OBJET TANGOBLACKPLUS FLX980**Chemical Family**

acrylic compounds

Substance Registration Number(s)

The components are either pre-registered or not subject to REACH.

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against**Identified Uses**

This product is a cartridge containing ink. Under normal conditions of use, the substance is released from a cartridge only inside an appropriate printing system, and therefore, exposure is limited.

Uses Advised Against

None known.

1.3 Details of the supplier of the safety data sheet

Stratasys GmbH

Airport Boulevard B 210

D-77836 Rheinmünster, Germany

Phone: +49 722 97 77 20

Emergency # +49 722 97772280

Email Address

objet-info@stratasys.com; www.stratasys.com

1.4 Emergency Telephone Number

+49 722 97772280 : Europe (Multi-lingual Response)

+49 722 97772281 : Global (English language response)

+1 978 495 5580 : USA (Multi-lingual Response)

+85 2 975 70887 : Asia Pacific (Multi-lingual Response)

+61 2 8011 4763 : Australia (Multi-lingual Response)

+86 15626070595 : China (Chinese language response)

*****Section 2 - HAZARDS IDENTIFICATION*******2.1 Classification of the Substance or Mixture****Classification according to Regulation (EC) No 1272/2008**

Skin Corrosion / Irritation, Category 2

Eye Damage / Irritation, Category 2

Skin sensitizer, Category 1

Specific Target Organ Toxicity - Single Exposure, Category 3 (respiratory system)

Hazardous to the Aquatic Environment - Chronic Hazard, Category 3

Classification according to Directives 67/548/EEC and/or 1999/45/EC**R36/37/38** Irritating to eyes, respiratory system and skin.**R43** May cause sensitization by skin contact.**R52/53** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**2.2 Label Elements**

Labeling according to Regulation (EC) 1272/2008/EC:**Symbol(s)****Signal Word**

WARNING

Hazard Statement(s)**H315** Causes skin irritation.**H319** Causes serious eye irritation.**H317** May cause an allergic skin reaction**H335** May cause respiratory irritation.**H412** Harmful to aquatic life with long lasting effects.**Precautionary Statement(s)****Prevention****P280** Wear protective gloves/protective clothing/eye protection/face protection.**Response****P302+P352** IF ON SKIN: Wash with plenty of soap and water. **P333+P313** If skin irritation or rash occurs: Get medical advice/attention. **P363** Wash contaminated clothing before reuse. **P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P337+P313** If eye irritation persists: Get medical advice/attention.**Storage**

None needed according to classification criteria.

Disposal**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.**Labeling according to Directive 67/548/EEC and/or 1999/45/EC****Symbols****Xi****R36/37/38** Irritating to eyes, respiratory system and skin.**R43** May cause sensitization by skin contact.**R52/53** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**S2** Keep out of the reach of children.**S24** Avoid contact with skin.**S26** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.**S36** Wear suitable protective clothing.

S37 Wear suitable gloves.

S46 If swallowed, seek medical advice immediately and show this container or label.

S60 This material and its container must be disposed of as hazardous waste.

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

2.3 Other Hazards

None known.

* * *Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS* * *

CAS EC No Registration No	Component Synonyms	67/548 EEC (DSD)	1272/2008 (CLP)	Percent
-- --	Acrylic oligomer	Xi; R:36/38	Skin Irrit. 2 Eye Irrit. 2	<70
5888-33-5 227-561-6 --	2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-	Xi N; R:36/37/38-51/53	Skin Irrit. 2 Eye Irrit. 2 STOT SE 3 Aquatic Chronic 2	<25
-- --	Photo initiator	Xi; R:43-53	Skin Sens. 1 Aquatic Chronic 4	<2
1330-20-7 215-535-7 --	Xylenes (o-, m-, p- isomers)	Xn; R:10-20/21-38	Flam. Liq. 3 Acute Tox. 4 (Dermal) Acute Inh. Tox. 4 Skin Irrit. 2 Note(s): C	0.1-1
100-51-6 202-859-9 --	Benzyl alcohol	Xn; R:20/22	Acute Tox. 4 (Oral) Acute Inh. Tox. 4	<0.5
52408-84-1 500-114-5 --	Acrylic acid ester	Xi; R:36-43	Eye Irrit. 2 Skin Sens. 1	<0.3
108-65-6 203-603-9 --	Propylene glycol monomethyl ether acetate	R:10	Flam. Liq. 3	<0.1
123-92-2 204-662-3 --	Isoamyl acetate	R:10-66	Flam. Liq. 3 EU Repeat Skin EU Note(s): C	<0.1
123-86-4 204-658-1 --	n-Butyl acetate	R:10-66-67	Flam. Liq. 3 STOT SE 3 EU Repeat Skin EU	<0.1

1333-86-4 215-609-9 --	Carbon black			<0.1
100-41-4 202-849-4 --	Ethylbenzene	F Xn; R:11-20	Flam. Liq. 2 Acute Inh. Tox. 4	<0.1
5392-40-5 226-394-6 --	Citral	Xi; R:36/38-43	Skin Irrit. 2 Eye Irrit. 2A Skin Sens. 1	<0.1
138-86-3 205-341-0 --	Dipentene	Xi N; R:10-38-43- 50/53	Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1 Note(s): C	<0.1
128-37-0 204-881-4 --	2,6-Di-tert-butyl-p-cresol	N; R:50/53	Aquatic Chronic 1	<0.01
106-24-1 203-377-1 --	Geraniol	Xi; R:38-41-43	Skin Irrit. 2 Eye Dam. 1 Skin Sens. 1	<0.01

Notes: C Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Additional Information

Under normal conditions of use, the substance is released from a cartridge only inside an appropriate printing system, and therefore, exposure is limited. The liquid within the cartridges is considered hazardous, and the MSDS has been prepared in case of exposure to the liquid.

* * *Section 4 - FIRST AID MEASURES* * *

4.1 Description of First Aid Measures

Inhalation

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

Skin

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

If swallowed, get medical attention.

4.2 Most Important Symptoms and Effects, both Acute and Delayed**Acute**

respiratory tract irritation, skin irritation, eye irritation, allergic skin reaction

Delayed

allergic skin reaction

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed**Note to Physicians**

No additional information.

*****Section 5 - FIRE FIGHTING MEASURES*******5.1 Extinguishing Media**

Use extinguishing agents appropriate for surrounding fire. Class B fires: Use carbon dioxide (CO₂), regular dry chemical (sodium bicarbonate), regular form (Aqueous Film Forming Foam-AFFF), or water spray to cool containers.

Unsuitable Extinguishing Media

None known.

5.2 Special Hazards Arising from the Substance or Mixture

Slight fire hazard.

Thermal Decomposition Products

Combustion: oxides of carbon, oxides of nitrogen, oxides of phosphorus

5.3 Advice for Firefighters**Fire Fighting Measures**

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Keep unnecessary people away, isolate hazard area and deny entry. Keep out of water supplies and sewers. Avoid inhalation of material or combustion by-products.

Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure. Avoid inhalation of material or combustion by-products.

*****Section 6 - ACCIDENTAL RELEASE MEASURES*******Occupational Spill / Release**

Intact cartridges do not pose a leak or spill hazard. Damaged cartridges may leak uncured ink. Stop leak if possible without personal risk. Reduce vapors with water spray. Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers.

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

6.2 Environmental Precautions

Avoid release to the environment.

6.3 Methods and Material for Containment and Cleaning up

Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Flush area with water to remove trace residue.

6.4 Reference to Other Sections

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations. See Section 13 for Disposal Considerations.

*****Section 7 - HANDLING AND STORAGE*******7.1 Precautions for Safe Handling**

Avoid breathing vapor or mist. Wear protective gloves/clothing and eye/face protection. Contaminated work clothing should not be allowed out of the workplace. Wash thoroughly after handling.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Store in accordance with all current regulations and standards. Store between 15 °C and 25 °C. Shipment temperature (up to 5 weeks) is -20 °C to 50 °C. Store in a combustible storage area away from heat and open flame. Store in a cool, dry place. Avoid direct sunlight. Keep in the dark. Keep separated from incompatible substances.

*****Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION*******8.1 Control Parameters****Component Exposure Limits****Xylenes (o-, m-, p- isomers) (1330-20-7)**

EU (IOELV):	50 ppm TWA (pure); 221 mg/m ³ TWA (pure) 100 ppm STEL (pure); 442 mg/m ³ STEL (pure) Possibility of significant uptake through the skin
Austria:	50 ppm TWA; 221 mg/m ³ TWA (all isomers) 100 ppm STEL (all isomers, 4 X 15 min); 442 mg/m ³ STEL (all isomers, 4 X 15 min) skin notation
Belgium:	50 ppm TWA; 221 mg/m ³ TWA 100 ppm STEL; 442 mg/m ³ STEL Skin
Bulgaria:	Skin notation (pure) 442.0 mg/m ³ STEL (pure); 100 ppm STEL 221.0 mg/m ³ TWA (pure); 50 ppm TWA
Czech Republic:	400 mg/m ³ Ceiling Potential for cutaneous absorption
Cyprus:	Skin-potential for cutaneous absorption 100 ppm STEL; 442 mg/m ³ STEL 50 ppm TWA; 221 mg/m ³ TWA
Denmark:	Present Potential for cutaneous absorption 25 ppm TWA; 109 mg/m ³ TWA
Estonia:	Skin notation 100 ppm STEL; 450 mg/m ³ STEL 50 ppm TWA; 221 mg/m ³ TWA
Finland:	50 ppm TWA; 220 mg/m ³ TWA 100 ppm STEL; 440 mg/m ³ STEL Potential for cutaneous absorption
France:	50 ppm TWA (restrictive limit); 221 mg/m ³ TWA (restrictive limit) 100 ppm STEL [VLCT] (restrictive limit); 442 mg/m ³ STEL [VLCT] (restrictive limit) Risk of cutaneous absorption
Germany (TRGS):	100 ppm TWA AGW (all isomers, exposure factor 2); 440 mg/m ³ TWA AGW (all isomers, exposure factor 2) skin notation (all isomers)
Germany (DFG):	100 ppm TWA MAK (all isomers); 440 mg/m ³ TWA MAK (all isomers) 200 ppm Peak (all isomers); 880 mg/m ³ Peak (all isomers) skin notation (all isomers)
Gibraltar:	Skin notation 100 ppm STEL (pure); 442 mg/m ³ STEL (pure) 50 ppm TWA (pure); 221 mg/m ³ TWA (pure)
Greece:	100 ppm TWA; 435 mg/m ³ TWA 150 ppm STEL; 650 mg/m ³ STEL skin - potential for cutaneous absorption
Hungary:	potential for cutaneous absorption 442 mg/m ³ STEL [CK] 221 mg/m ³ TWA [AK]

- Ireland:** 50 ppm TWA; 221 mg/m³ TWA
100 ppm STEL; 442 mg/m³ STEL
Potential for cutaneous absorption
- Italy:** 50 ppm TWA (pure); 221 mg/m³ TWA (pure)
100 ppm STEL (pure); 442 mg/m³ STEL (pure)
skin - potential for cutaneous absorption (pure)
- Latvia:** skin - potential for cutaneous exposure
100 ppm STEL; 442 mg/m³ STEL
50 ppm TWA; 221 mg/m³ TWA
- Lithuania:** Skin notation
100 ppm STEL; 450 mg/m³ STEL
50 ppm TWA; 200 mg/m³ TWA
- Luxembourg:** 100 ppm STEL; 442 mg/m³ STEL
50 ppm TWA; 221 mg/m³ TWA
- Malta:** possibility of significant uptake through the skin (pure)
100 ppm STEL (pure); 442 mg/m³ STEL (pure)
50 ppm TWA (pure); 221 mg/m³ TWA (pure)
- Netherlands:** 210 mg/m³ TWA
442 mg/m³ STEL
skin notation
- Poland:** Irritant
Skin notation
100 mg/m³ TWA
- Portugal:** 100 ppm TWA [VLE-MP]
150 ppm STEL [VLE-CD]
- Romania:** 3 g/L Medium: urine Time: end of shift Parameter: Methylhippuric acid
Skin notation
100 ppm STEL; 442 mg/m³ STEL
50 ppm TWA; 221 mg/m³ TWA
- Slovak Republic:** 442 mg/m³ Ceiling
Potential for cutaneous absorption
50 ppm TWA; 221 mg/m³ TWA
- Slovenia:** Potential for cutaneous absorption
100 ppm STEL; 442 mg/m³ STEL
50 ppm TWA; 221 mg/m³ TWA
- Spain:** 50 ppm TWA [VLA-ED] (indicative limit value); 221 mg/m³ TWA [VLA-ED] (indicative limit value)
100 ppm STEL [VLA-EC]; 442 mg/m³ STEL [VLA-EC]
skin - potential for cutaneous exposure
- Sweden:** 50 ppm LLV; 221 mg/m³ LLV
100 ppm STV; 442 mg/m³ STV
Skin notation
- United Kingdom:** 50 ppm TWA; 220 mg/m³ TWA
100 ppm STEL; 441 mg/m³ STEL
Potential for cutaneous absorption
100 ppm TWA
150 ppm STEL

Benzyl alcohol (100-51-6)

Bulgaria: 5.0 mg/m³ TWA
Czech Republic: 80 mg/m³ Ceiling
Finland: 10 ppm TWA; 45 mg/m³ TWA
Latvia: 5 mg/m³ TWA
Lithuania: Skin notation
5 mg/m³ TWA
Poland: 240 mg/m³ TWA

Propylene glycol monomethyl ether acetate (108-65-6)

EU (IOELV): 50 ppm TWA; 275 mg/m³ TWA
100 ppm STEL; 550 mg/m³ STEL
Possibility of significant uptake through the skin

Austria: 50 ppm TWA; 275 mg/m³ TWA
100 ppm STEL; 550 mg/m³ STEL
skin notation

Belgium: 50 ppm TWA; 275 mg/m³ TWA
100 ppm STEL; 550 mg/m³ STEL
Skin

Bulgaria: Skin notation
550.0 mg/m³ STEL; 100 ppm STEL
275.0 mg/m³ TWA; 50 ppm TWA

Czech Republic: 550 mg/m³ Ceiling
Potential for cutaneous absorption

Cyprus: Skin-potential for cutaneous absorption
100 ppm STEL; 550 mg/m³ STEL
50 ppm TWA; 275 mg/m³ TWA

Denmark: Present
Potential for cutaneous absorption
50 ppm TWA; 275 mg/m³ TWA

Estonia: Sensitizer
Skin notation
100 ppm STEL; 550 mg/m³ STEL
50 ppm TWA; 275 mg/m³ TWA

Finland: 50 ppm TWA; 270 mg/m³ TWA
100 ppm STEL; 550 mg/m³ STEL
Potential for cutaneous absorption

France: 50 ppm TWA (restrictive limit); 275 mg/m³ TWA (restrictive limit)
100 ppm STEL [VLCT] (restrictive limit); 550 mg/m³ STEL [VLCT] (restrictive limit)
Risk of cutaneous absorption

Germany (TRGS): 50 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 1); 270 mg/m³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 1)

Germany (DFG): 50 ppm TWA MAK; 270 mg/m³ TWA MAK
50 ppm Peak; 270 mg/m³ Peak

Gibraltar: Skin notation
100 ppm STEL; 550 mg/m³ STEL
50 ppm TWA; 275 mg/m³ TWA

Greece: 50 ppm TWA; 275 mg/m³ TWA

	100 ppm STEL; 550 mg/m ³ STEL skin - potential for cutaneous absorption
Hungary:	550 mg/m ³ STEL [CK] 275 mg/m ³ TWA [AK]
Ireland:	50 ppm TWA; 275 mg/m ³ TWA 100 ppm STEL; 550 mg/m ³ STEL Potential for cutaneous absorption
Italy:	50 ppm TWA; 275 mg/m ³ TWA 100 ppm STEL; 550 mg/m ³ STEL skin - potential for cutaneous absorption
Latvia:	skin - potential for cutaneous exposure 100 ppm STEL; 550 mg/m ³ STEL 50 ppm TWA; 275 mg/m ³ TWA
Lithuania:	Skin notation 75 ppm STEL; 400 mg/m ³ STEL 50 ppm TWA; 250 mg/m ³ TWA
Luxembourg:	Possibility of significant uptake through the skin 100 ppm STEL; 550 mg/m ³ STEL 50 ppm TWA; 275 mg/m ³ TWA
Malta:	possibility of significant uptake through the skin 100 ppm STEL; 550 mg/m ³ STEL 50 ppm TWA; 275 mg/m ³ TWA
Netherlands:	550 mg/m ³ TWA
Poland:	520 mg/m ³ STEL [NDSCh] 260 mg/m ³ TWA
Romania:	Skin notation 100 ppm STEL; 550 mg/m ³ STEL 50 ppm TWA; 275 mg/m ³ TWA
Slovak Republic:	550 mg/m ³ Ceiling Potential for cutaneous absorption 50 ppm TWA; 275 mg/m ³ TWA
Slovenia:	Potential for cutaneous absorption 100 ppm STEL; 550 mg/m ³ STEL 50 ppm TWA; 275 mg/m ³ TWA
Spain:	50 ppm TWA [VLA-ED] (indicative limit value); 275 mg/m ³ TWA [VLA-ED] (indicative limit value) 100 ppm STEL [VLA-EC]; 550 mg/m ³ STEL [VLA-EC] skin - potential for cutaneous exposure
Sweden:	50 ppm LLV; 250 mg/m ³ LLV 75 ppm STV; 400 mg/m ³ STV Skin notation
United Kingdom:	50 ppm TWA; 274 mg/m ³ TWA 100 ppm STEL; 548 mg/m ³ STEL Potential for cutaneous absorption
Citral (5392-40-5)	
Poland:	54 mg/m ³ STEL [NDSCh] 27 mg/m ³ TWA 5 ppm TWA (inhalable fraction and vapor)

Skin - potential significant contribution to overall exposure by the cutaneous route
Sensitizer

n-Butyl acetate (123-86-4)

Austria:	100 ppm TWA; 480 mg/m ³ TWA (all isomers except tert-Butyl acetate) 100 ppm STEL (all isomers except tert-Butyl acetate); 480 mg/m ³ STEL (all isomers except tert-Butyl acetate) 100 ppm Ceiling; 480 mg/m ³ Ceiling
Belgium:	150 ppm TWA; 723 mg/m ³ TWA 200 ppm STEL; 964 mg/m ³ STEL
Bulgaria:	950.0 mg/m ³ STEL 710.0 mg/m ³ TWA
Czech Republic:	1200 mg/m ³ Ceiling
Denmark:	Present 150 ppm TWA; 710 mg/m ³ TWA
Finland:	150 ppm TWA; 720 mg/m ³ TWA 200 ppm STEL; 960 mg/m ³ STEL
France:	150 ppm TWA; 710 mg/m ³ TWA 200 ppm STEL [VLCT]; 940 mg/m ³ STEL [VLCT]
Germany (TRGS):	62 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 300 mg/m ³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)
Germany (DFG):	100 ppm TWA MAK; 480 mg/m ³ TWA MAK 200 ppm Peak; 960 mg/m ³ Peak
Greece:	150 ppm TWA; 710 mg/m ³ TWA 200 ppm STEL; 950 mg/m ³ STEL
Hungary:	sensitizer 950 mg/m ³ STEL [CK] 950 mg/m ³ TWA [AK]
Latvia:	200 mg/m ³ TWA
Portugal:	150 ppm TWA [VLE-MP] 200 ppm STEL [VLE-CD]
Romania:	200 ppm STEL; 950 mg/m ³ STEL
Slovak Republic:	700 mg/m ³ Ceiling 100 ppm TWA; 480 mg/m ³ TWA
Slovenia:	100 ppm STEL; 480 mg/m ³ STEL 100 ppm TWA; 480 mg/m ³ TWA
Spain:	150 ppm TWA [VLA-ED]; 724 mg/m ³ TWA [VLA-ED] 200 ppm STEL [VLA-EC]; 965 mg/m ³ STEL [VLA-EC]
Sweden:	100 ppm LLV; 500 mg/m ³ LLV 150 ppm STV; 700 mg/m ³ STV 150 ppm TWA 200 ppm STEL

Isoamyl acetate (123-92-2)

EU (IOELV):	50 ppm TWA; 270 mg/m ³ TWA 100 ppm STEL; 540 mg/m ³ STEL
Austria:	50 ppm TWA; 270 mg/m ³ TWA 100 ppm STEL (4 X 15 min); 540 mg/m ³ STEL (4 X 15 min)

Belgium:	50 ppm TWA (as Pentyl acetate); 270 mg/m ³ TWA (as Pentyl acetate) 100 ppm STEL (as Pentyl acetate); 540 mg/m ³ STEL (as Pentyl acetate)
Bulgaria:	540.0 mg/m ³ STEL; 100 ppm STEL 270.0 mg/m ³ TWA; 50 ppm TWA
Czech Republic:	540 mg/m ³ Ceiling
Cyprus:	100 ppm STEL; 540 mg/m ³ STEL 50 ppm TWA; 270 mg/m ³ TWA
Denmark:	Present 50 ppm TWA; 271 mg/m ³ TWA
Estonia:	100 ppm STEL; 540 mg/m ³ STEL 50 ppm TWA; 270 mg/m ³ TWA
Finland:	50 ppm TWA; 270 mg/m ³ TWA 100 ppm STEL; 540 mg/m ³ STEL
France:	50 ppm TWA (restrictive limit); 270 mg/m ³ TWA (restrictive limit) 100 ppm STEL [VLCT] (restrictive limit); 540 mg/m ³ STEL [VLCT] (restrictive limit)
Germany (TRGS):	50 ppm TWA AGW (exposure factor 1); 270 mg/m ³ TWA AGW (exposure factor 1)
Germany (DFG):	50 ppm TWA MAK; 270 mg/m ³ TWA MAK 50 ppm Peak (all isomers); 270 mg/m ³ Peak (all isomers)
Gibraltar:	100 ppm STEL; 540 mg/m ³ STEL 50 ppm TWA; 270 mg/m ³ TWA
Greece:	100 ppm TWA; 530 mg/m ³ TWA 150 ppm STEL; 800 mg/m ³ STEL
Hungary:	540 mg/m ³ STEL [CK] 270 mg/m ³ TWA [AK]
Ireland:	50 ppm TWA; 260 mg/m ³ TWA 100 ppm STEL; 520 mg/m ³ STEL
Italy:	50 ppm TWA; 270 mg/m ³ TWA 100 ppm STEL; 540 mg/m ³ STEL
Latvia:	100 ppm STEL; 540 mg/m ³ STEL 50 ppm TWA; 270 mg/m ³ TWA
Lithuania:	100 ppm STEL; 540 mg/m ³ STEL 50 ppm TWA; 270 mg/m ³ TWA
Luxembourg:	100 ppm STEL; 540 mg/m ³ STEL 50 ppm TWA; 270 mg/m ³ TWA
Malta:	100 ppm STEL; 540 mg/m ³ STEL 50 ppm TWA; 270 mg/m ³ TWA
Netherlands:	530 mg/m ³ STEL
Poland:	500 mg/m ³ STEL [NDSCh] 250 mg/m ³ TWA
Portugal:	50 ppm TWA [VLE-MP] (as Pentyl acetate, all isomers) 100 ppm STEL [VLE-CD (regulated under Pentyl acetate, all isomers)]
Romania:	100 ppm STEL; 540 mg/m ³ STEL 56 ppm TWA; 300 mg/m ³ TWA; 50 ppm TWA (regulated under Isopentyl acetate); 270 mg/m ³ TWA (regulated under Isopentyl acetate)
Slovak Republic:	540 mg/m ³ Ceiling 50 ppm TWA; 270 mg/m ³ TWA
Slovenia:	100 ppm STEL; 540 mg/m ³ STEL 270 ppm TWA; 50 mg/m ³ TWA

Spain: 50 ppm TWA [VLA-ED] (indicative limit value); 270 mg/m³ TWA [VLA-ED] (indicative limit value)

100 ppm STEL [VLA-EC]; 540 mg/m³ STEL [VLA-EC]

Sweden: 50 ppm LLV; 270 mg/m³ LLV

100 ppm STV; 540 mg/m³ STV

50 ppm TWA

100 ppm STEL

Ethylbenzene (100-41-4)

EU (IOELV): 100 ppm TWA; 442 mg/m³ TWA

200 ppm STEL; 884 mg/m³ STEL

Possibility of significant uptake through the skin

Austria: 100 ppm TWA; 440 mg/m³ TWA

200 ppm STEL; 880 mg/m³ STEL

skin notation

Belgium: 100 ppm TWA; 442 mg/m³ TWA

125 ppm STEL; 551 mg/m³ STEL

Skin

Bulgaria: Skin notation

545.0 mg/m³ STEL

435.0 mg/m³ TWA

Czech Republic: 500 mg/m³ Ceiling

Potential for cutaneous absorption

Cyprus: Skin-potential for cutaneous absorption

200 ppm STEL; 884 mg/m³ STEL

100 ppm TWA; 442 mg/m³ TWA

Denmark: Present

Present

Potential for cutaneous absorption

50 ppm TWA; 217 mg/m³ TWA

Estonia: Sensitizer

Skin notation

200 ppm STEL; 884 mg/m³ STEL

100 ppm TWA; 442 mg/m³ TWA

Finland: 50 ppm TWA; 220 mg/m³ TWA

200 ppm STEL; 880 mg/m³ STEL

Potential for cutaneous absorption

France: 20 ppm TWA (restrictive limit); 88.4 mg/m³ TWA (restrictive limit)

100 ppm STEL [VLCT] (restrictive limit); 442 mg/m³ STEL [VLCT] (restrictive limit)

Risk of cutaneous absorption

Germany (TRGS): 20 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when

AGW and BGW values are observed, exposure factor 2); 88 mg/m³ TWA AGW (The

risk of damage to the embryo or fetus can be excluded when AGW and BGW values

are observed, exposure factor 2)

skin notation

Germany (DFG): 20 ppm TWA MAK; 88 mg/m³ TWA MAK

40 ppm Peak; 176 mg/m³ Peak

skin notation

Gibraltar: Skin notation

	200 ppm STEL; 884 mg/m ³ STEL 100 ppm TWA; 442 mg/m ³ TWA
Greece:	100 ppm TWA; 435 mg/m ³ TWA 125 ppm STEL; 545 mg/m ³ STEL
Hungary:	potential for cutaneous absorption 884 mg/m ³ STEL [CK] 442 mg/m ³ TWA [AK]
Ireland:	100 ppm TWA; 442 mg/m ³ TWA 200 ppm STEL; 884 mg/m ³ STEL Potential for cutaneous absorption
Italy:	100 ppm TWA; 442 mg/m ³ TWA 200 ppm STEL; 884 mg/m ³ STEL skin - potential for cutaneous absorption
Latvia:	skin - potential for cutaneous exposure 200 ppm STEL; 884 mg/m ³ STEL 100 ppm TWA; 442 mg/m ³ TWA
Lithuania:	Skin notation 200 ppm STEL; 884 mg/m ³ STEL 100 ppm TWA; 442 mg/m ³ TWA
Luxembourg:	Possibility of significant uptake through the skin 200 ppm STEL; 884 mg/m ³ STEL 100 ppm TWA; 442 mg/m ³ TWA
Malta:	possibility of significant uptake through the skin 200 ppm STEL; 884 mg/m ³ STEL 100 ppm TWA; 442 mg/m ³ TWA
Netherlands:	215 mg/m ³ TWA 430 mg/m ³ STEL skin notation
Poland:	Skin notation 400 mg/m ³ STEL [NDSCh] 200 mg/m ³ TWA
Portugal:	100 ppm TWA [VLE-MP] 125 ppm STEL [VLE-CD]
Romania:	1.5 g/g Creatinine Medium: urine Time: end of work week Parameter: Mandelic acid Skin notation 200 ppm STEL; 884 mg/m ³ STEL 100 ppm TWA; 442 mg/m ³ TWA
Slovak Republic:	884 mg/m ³ Ceiling Potential for cutaneous absorption 100 ppm TWA; 442 mg/m ³ TWA
Slovenia:	Potential for cutaneous absorption 200 ppm STEL; 884 mg/m ³ STEL 100 ppm TWA; 442 mg/m ³ TWA
Spain:	100 ppm TWA [VLA-ED] (indicative limit value); 441 mg/m ³ TWA [VLA-ED] (indicative limit value) 200 ppm STEL [VLA-EC]; 884 mg/m ³ STEL [VLA-EC] skin - potential for cutaneous exposure
Sweden:	50 ppm LLV; 200 mg/m ³ LLV

United Kingdom: 100 ppm STV; 450 mg/m³ STV
100 ppm TWA; 441 mg/m³ TWA
125 ppm STEL; 552 mg/m³ STEL
Potential for cutaneous absorption
20 ppm TWA

Carbon black (1333-86-4)

Belgium: 3.5 mg/m³ TWA
Denmark: Present
3.5 mg/m³ TWA
Estonia: 3 mg/m³ TWA (dust)
Finland: 3.5 mg/m³ TWA
7 mg/m³ STEL
France: 3.5 mg/m³ TWA
Greece: 3.5 mg/m³ TWA
7 mg/m³ STEL
Ireland: 3.5 mg/m³ TWA
7 mg/m³ STEL
Poland: 4.0 mg/m³ TWA (total inhalable dust)
Portugal: 3.5 mg/m³ TWA [VLE-MP]
Slovak Republic: 2 mg/m³ TWA (respirable fraction, 5% or less fibrogenic component); 10 mg/m³ TWA (respirable fraction, greater than 5% fibrogenic component); 10 mg/m³ TWA (total aerosol)
Spain: 3.5 mg/m³ TWA [VLA-ED]
Sweden: 3 mg/m³ LLV (total dust)
United Kingdom: 3.5 mg/m³ TWA
7 mg/m³ STEL
3 mg/m³ TWA (inhalable fraction)

Dipentene (138-86-3)

Denmark: 75 ppm TLV
Estonia: 50 ppm STEL; 300 mg/m³ STEL
25 ppm TWA; 150 mg/m³ TWA
Germany (DFG): skin sensitizer
Lithuania: Sensitizer
50 ppm STEL; 300 mg/m³ STEL
25 ppm TWA; 150 mg/m³ TWA
Sweden: 25 ppm LLV; 150 mg/m³ LLV
50 ppm STV; 300 mg/m³ STV
Sensitizer

2,6-Di-tert-butyl-p-cresol (128-37-0)

Austria: 10 mg/m³ TWA
Belgium: 2 mg/m³ TWA (aerosol and vapor)
Bulgaria: 50.0 mg/m³ STEL
10.0 mg/m³ TWA
Denmark: 10 mg/m³ TWA
Finland: 10 mg/m³ TWA
20 mg/m³ STEL
France: 10 mg/m³ TWA
Germany (TRGS): 10 mg/m³ TWA AGW (The risk of damage to the embryo or fetus can be excluded)

	when AGW and BGW values are observed, inhalable fraction, exposure factor 4)
Germany (DFG):	10 mg/m ³ TWA MAK (inhalable fraction) 40 mg/m ³ Peak (inhalable fraction)
Greece:	10 mg/m ³ TWA
Ireland:	10 mg/m ³ TWA
Portugal:	2 mg/m ³ TWA [VLE-MP] (inhalable fraction, aerosol and vapor)
Slovenia:	10 mg/m ³ TWA (inhalable fraction)
United Kingdom:	10 mg/m ³ TWA 30 mg/m ³ STEL (calculated) 2 mg/m ³ TWA (inhalable fraction and vapor)

Geraniol (106-24-1)**Germany (DFG):** skin sensitizer**Biological Limit Value****Component Analysis**

There are no biological limit values for any of this product's components.

Derived No Effect Levels (DNELs)

No DNELs available.

Predicted No Effect Concentrations (PNECs)

No PNECs available.

Ventilation

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

8.2 Exposure Controls**Appropriate Engineering Controls****Eye / Face Protection**

Eye protection not required under normal conditions. Chemical goggles or safety glasses with side shields should be worn when handling a damaged cartridge.

Skin Protection

Protective clothing is not required under normal conditions. Wear neoprene or nitrile impervious gloves when handling damaged cartridge. Wash contaminated clothing before reuse.

Glove Recommendations

Wear neoprene or nitrile impervious gloves when handling damaged cartridge.

Respiratory Protection

Respiratory protection is not generally needed when using this product.

*****Section 9 - PHYSICAL AND CHEMICAL PROPERTIES*****

9.1 Information on Basic Physical and Chemical Properties

Physical State:	Liquid	Appearance:	ink cartridge containing black liquid ink
Color:	black	Physical Form:	liquid
Odor:	characteristic odor	Odor Threshold:	Not available
pH:	Not applicable	Melting Point:	Not available
Boiling Point:	Not available	Decomposition:	Not available
Flash Point:	>100 °C	Evaporation Rate:	Not available
LEL:	Not available	UEL:	Not available
Vapor Pressure:	Not available	Vapor Density (air = 1):	Not available
Density:	Not available	Specific Gravity (water = 1):	Not available
Water Solubility:	Not available	Coeff. Water/Oil Dist:	Not available
Auto Ignition:	Not available	Viscosity:	Not available
Volatility:	Not available		

*****Section 10 - STABILITY AND REACTIVITY*****

10.1 Reactivity

Heating may cause a fire

10.2 Chemical Stability

Unstable on exposure to light. Unstable on exposure to heat.

10.3 Possibility of Hazardous Reactions

Uncured ink will polymerize on exposure to light.

10.4 Conditions to Avoid

Avoid exposure to heat and light.

10.5 Incompatible Materials

Not applicable under normal conditions of use and storage.

10.6 Hazardous Decomposition Products
Thermal Decomposition Products

Combustion: oxides of carbon, oxides of nitrogen, oxides of phosphorus

*****Section 11 - TOXICOLOGICAL INFORMATION*****

11.1 Information on Toxicological Effects
Acute and Chronic Toxicity

No hazard is expected from the normal use of this product. While unlikely, uncured ink may leak from damaged ink cartridges and cause skin and eye irritation. Contact with skin may cause tingling sensation or skin irritation. Contact with eyes may cause eye irritation, inflammation, or eye damage.

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Xylenes (o-, m-, p- isomers) (1330-20-7)

Inhalation LC50 Rat 47635 mg/L 4 h; Oral LD50 Rat 4300 mg/kg

Benzyl alcohol (100-51-6)

Dermal LD50 Rabbit 2 g/kg; Inhalation LC50 Rat 8.8 mg/L 4 h; Oral LD50 Rat 1230 mg/kg

Propylene glycol monomethyl ether acetate (108-65-6)

Dermal LD50 Rabbit >5 g/kg; Oral LD50 Rat 8532 mg/kg

Citral (5392-40-5)

Dermal LD50 Rabbit 2250 mg/kg; Oral LD50 Rat 4950 mg/kg

n-Butyl acetate (123-86-4)

Dermal LD50 Rabbit >17600 mg/kg; Inhalation LC50 Rat 390 ppm 4 h; Inhalation LC50 Rat 390 ppm 4 h

Ethylbenzene (100-41-4)

Inhalation LC50 Rat 17.2 mg/L 4 h; Oral LD50 Rat 3500 mg/kg; Dermal LD50 Rabbit 15354 mg/kg

2,6-Di-tert-butyl-p-cresol (128-37-0)

Oral LD50 Rat 890 mg/kg

Geraniol (106-24-1)

Dermal LD50 Rabbit >5 g/kg; Oral LD50 Rat 3600 mg/kg

Irritation / Corrosivity

Contact with uncured ink may cause skin and eye irritation. Inhalation may cause respiratory tract irritation.

Respiratory Sensitization

No data available for the mixture.

Skin Sensitization

Component data indicate the substance is sensitizing. Uncured ink may cause an allergic response in sensitized individuals.

Germ Cell Mutagenicity

No data available for the mixture.

Carcinogenicity**Component Carcinogenicity****Xylenes (o-, m-, p- isomers) (1330-20-7)**

IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Ethylbenzene (100-41-4)

IARC: Monograph 77 [2000] (Group 2B (possibly carcinogenic to humans))

DFG: Category 4 (no significant contribution to human cancer)

Carbon black (1333-86-4)

IARC: Monograph 93 [2010]; Monograph 65 [1996] (Group 2B (possibly carcinogenic to humans))

DFG: Category 3B (could be carcinogenic for man, inhalable fraction)

2,6-Di-tert-butyl-p-cresol (128-37-0)

IARC: Supplement 7 [1987]; Monograph 40 [1986] (Group 3 (not classifiable))

DFG: Category 4 (no significant contribution to human cancer)

Reproductive Toxicity

No data available for the mixture.

Specific Target Organ Toxicity - Single Exposure

respiratory system

Specific Target Organ Toxicity - Repeated Exposure

No data available.

Aspiration Hazard

No data available for the mixture.



Safety Data Sheet

Material Name: OBJET TANGOBLACKPLUS FLX980

MSDS ID: DOC-06133_B

In Compliance with Regulation (EC) 1907/2006 (REACH) as Amended

Section 12 - ECOLOGICAL INFORMATION
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12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Component Analysis - Aquatic Toxicity

Data may be available for the product or its components (if applicable, see below).

Xylenes (o-, m-, p- isomers) (1330-20-7)

Fish: 96 Hr LC50 Pimephales promelas: 13.4 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 2.661 - 4.093 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 13.5 - 17.3 mg/L; 96 Hr LC50 Lepomis macrochirus: 13.1 - 16.5 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 19 mg/L; 96 Hr LC50 Lepomis macrochirus: 7.711 - 9.591 mg/L [static]; 96 Hr LC50 Pimephales promelas: 23.53 - 29.97 mg/L [static]; 96 Hr LC50 Cyprinus carpio: 780 mg/L [semi-static]; 96 Hr LC50 Cyprinus carpio: >780 mg/L; 96 Hr LC50 Poecilia reticulata: 30.26 - 40.75 mg/L [static]

Invertebrate: 48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 Gammarus lacustris: 0.6 mg/L

Benzyl alcohol (100-51-6)

Fish: 96 Hr LC50 Pimephales promelas: 460 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 10 mg/L [static]

Algae: 3 Hr EC50 Anabaena variabilis: 35 mg/L

Invertebrate: 48 Hr EC50 water flea: 23 mg/L

Propylene glycol monomethyl ether acetate (108-65-6)

Fish: 96 Hr LC50 Pimephales promelas: 161 mg/L [static]

Invertebrate: 48 Hr EC50 Daphnia magna: >500 mg/L

Citral (5392-40-5)

Fish: 96 Hr LC50 Leuciscus idus: 4.6 - 10 mg/L [static]

Algae: 72 Hr EC50 Desmodesmus subspicatus: 16 mg/L; 96 Hr EC50 Desmodesmus subspicatus: 19 mg/L

Invertebrate: 48 Hr EC50 Daphnia magna: 7 mg/L

n-Butyl acetate (123-86-4)

Fish: 96 Hr LC50 Pimephales promelas: 17 - 19 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 100 mg/L [static]; 96 Hr LC50 Leuciscus idus: 62 mg/L [static]

Algae: 72 Hr EC50 Desmodesmus subspicatus: 674.7 mg/L

Invertebrate: 24 Hr EC50 Daphnia magna: 72.8 mg/L

Ethylbenzene (100-41-4)

Fish: 96 Hr LC50 Oncorhynchus mykiss: 11.0 - 18.0 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4.2 mg/L [semi-static]; 96 Hr LC50 Pimephales promelas: 7.55 - 11 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 32 mg/L [static]; 96 Hr LC50 Pimephales promelas: 9.1 - 15.6 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 9.6 mg/L [static]

Algae: 72 Hr EC50 Pseudokirchneriella subcapitata: 4.6 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: >438 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 2.6 - 11.3 mg/L [static]; 96 Hr EC50 Pseudokirchneriella subcapitata: 1.7 - 7.6 mg/L [static]

Invertebrate: 48 Hr EC50 Daphnia magna: 1.8 - 2.4 mg/L

Carbon black (1333-86-4)

Invertebrate: 24 Hr EC50 Daphnia magna: >5600 mg/L

2,6-Di-tert-butyl-p-cresol (128-37-0)

Fish: 48 Hr LC50 Oryzias latipes: 5 mg/L

Algae: 72 Hr EC50 Pseudokirchneriella subcapitata: 6 mg/L; 72 Hr EC50 Desmodesmus subspicatus: >0.42 mg/L

12.2 Persistence and Degradability

No data available for the mixture.

12.3 Bioaccumulative Potential

No data available for the mixture.

12.4 Mobility in Soil

No data available for the mixture.

12.5 Results of PBT and vPvB Assessment

No information available.

EU - Interim Strategy for Management of PBT and vPvB Substances (PBT Assessments)**2,6-Di-tert-butyl-p-cresol (128-37-0)**

Not fulfilling PBT and vPvB criteria

12.6 Other Adverse Effects

No information available.

*****Section 13 - DISPOSAL CONSIDERATIONS*******13.1 Waste Treatment Methods**

Dispose in accordance with all applicable regulations. Hazardous Waste Number(s): 08 03 12*

Refer to manufacturer/supplier for information on recovery/recycling. Do not landfill. Avoid discharge into drains or surface water. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

*****Section 14 - TRANSPORT INFORMATION*******Transportation**

Not regulated as a hazardous material.

International Bulk Chemical Code

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Xylenes (o-, m-, p- isomers) (1330-20-7)

IBC Code: Category Y

Benzyl alcohol (100-51-6)

IBC Code: Category Y

Propylene glycol monomethyl ether acetate (108-65-6)

IBC Code: Category Z

Ethylbenzene (100-41-4)

IBC Code: Category Y

Dipentene (138-86-3)

IBC Code: Category Y

*****Section 15 - REGULATORY INFORMATION*******15.1 Safety, Health and Environmental Regulations / Legislation Specific for the Substance or Mixture****EU - REACH (1907/2006) - Annex XIV List of Substances Subject to Authorisation**

No components of this material are listed.

EU - REACH (1907/2006) - Article 59(1) Candidate List of Substances for Eventual Inclusion in Annex XIV

No components of this material are listed.

EU - REACH (1907/2006) - Annex XVII Restrictions of Certain Dangerous Substances, Mixtures and Articles

No components of this material are listed.

Germany Regulations**Germany Water Classification****2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- (5888-33-5)**

ID Number 2247, hazard class 2 - hazard to waters

Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)- (162881-26-7)

ID Number 2126, hazard class 1 - low hazard to waters

Xylenes (o-, m-, p- isomers) (1330-20-7)

ID Number 206, hazard class 2 - hazard to waters

Benzyl alcohol (100-51-6)

ID Number 216, hazard class 1 - low hazard to waters

Propylene glycol monomethyl ether acetate (108-65-6)

ID Number 5033, hazard class 1 - low hazard to waters

Citral (5392-40-5)

ID Number 1173, hazard class 1 - low hazard to waters

n-Butyl acetate (123-86-4)

ID Number 42, hazard class 1 - low hazard to waters

Isoamyl acetate (123-92-2)

ID Number 1653, hazard class 1 - low hazard to waters

Ethylbenzene (100-41-4)

ID Number 99, hazard class 1 - low hazard to waters

Carbon black (1333-86-4)

ID Number 1742, not considered hazardous to water

Dipentene (138-86-3)

ID Number 87, hazard class 2 - hazard to waters

2,6-Di-tert-butyl-p-cresol (128-37-0)

ID Number 724, hazard class 1 - low hazard to waters

Geraniol (106-24-1)

ID Number 2852, hazard class 1 - low hazard to waters

Denmark Regulations

DENMARK PRODUCT REGISTRATION NUMBER: 2292167

Environmental Protection Agency List of Undesirable Substances**Benzyl alcohol (100-51-6)**

Fragrances in cosmetics, cleaning agents, odor removers and other consumer products

Substances that are only subject to partial restrictions on use, but other uses can also be objectionable from a health and environmental standpoint; Most often fragrances/perfumes are not necessary for the main function of the product and it is therefore a question of needless exposure of consumers to chemical substances that can represent a risk of development of allergy; Substances have special Danish focus

Citral (5392-40-5)

Fragrances in cosmetics, cleaning agents, odor removers and other consumer products

Substances that are only subject to partial restrictions on use, but other uses can also be objectionable from a health and environmental standpoint; Most often fragrances/perfumes are not necessary for the main function of the product and it is therefore a question of needless exposure of consumers to chemical substances that can represent a risk of development of allergy; Substances have special Danish focus

2,6-Di-tert-butyl-p-cresol (128-37-0)

Present

Advisory List for Self-Classification of Dangerous Substances
2-Propenoic acid, 2-[[[(butylamino)carbonyl]oxy]ethyl ester (63225-53-6)

Carc.Cat.3; R40

2,6-Di-tert-butyl-p-cresol (128-37-0)

Carc.Cat.3; R40

Muta.Cat.3; R68

N; R50/53

Xi; R38

Xn; R22

Geraniol (106-24-1)

Xi; R38

Advisory List for CLP-Classifications
2-Propenoic acid, 2-[[[(butylamino)carbonyl]oxy]ethyl ester (63225-53-6)

Carc2

2,6-Di-tert-butyl-p-cresol (128-37-0)

Carc2,Muta2,AcuteTox4,SkinIrr2,Chron1

Geraniol (106-24-1)

SkinIrr2

EU Inventory
Substance Analysis - Inventory

Component	CAS	EEC
Acrylic oligomer	--	EIN
2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-	5888-33-5 227-561-6	EIN
Photo initiator	--	ELN
Xylenes (o-, m-, p- isomers)	1330-20-7	EIN
Benzyl alcohol	100-51-6	EIN
Acrylic acid ester	52408-84-1	NLP
Propylene glycol monomethyl ether acetate	108-65-6	EIN
Citral	5392-40-5	EIN
n-Butyl acetate	123-86-4	EIN
Isoamyl acetate	123-92-2	EIN
Ethylbenzene	100-41-4	EIN
Carbon black	1333-86-4	EIN
Dipentene	138-86-3	EIN
2,6-Di-tert-butyl-p-cresol	128-37-0	EIN
Geraniol	106-24-1	EIN

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for the substance/mixture.

Section 16 - OTHER INFORMATION

16.1 Indication of changes

New MSDS: 1/14/2013

16.2 Key / Legend

ADR - European Road Transport; EEC - European Economic Community; EIN (EINECS) - European Inventory of Existing Commercial Chemical Substances; ELN (ELINCS) - European List of Notified Chemical Substances; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; Kow - Octanol/water partition coefficient; LEL - Lower Explosive Limit; RID - European Rail Transport; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TWA - Time Weighted Average; UEL - Upper Explosive Limit

16.3 Key literature references and sources for data

Available upon request

16.4 Methods used for classification of mixture according to Regulation (EC) No 1272/2008

Available upon request

16.5 Full Text of R Phrases in Section 3

R10 Flammable.

R11 Highly flammable.

R20 Harmful by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.

R43 May cause sensitization by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R53 May cause long-term adverse effects in the aquatic environment.

R20/21 Harmful by inhalation and in contact with skin.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapors may cause drowsiness and dizziness.

16.6 Training Advice

Read the Safety Data Sheet before handling product.

16.7 Other Information

The information in this safety data sheet is based on data and samples provided to a third party SDS author. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned in this safety data sheet. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question.

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End of Sheet DOC-06133_B