

*****Section 1 - IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING*******1.1 Product Identifier:**

Material Name: OBJET RGD525

Chemical Family

acrylic compounds

Substance Registration Number(s)

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

Substance Registration Number(s) : 01-0000016491-73-XXXX (CAS#, 5117-12-4)

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

Phone: +49 722 97 77 20

Airport Boulevard B 210

D-77836 Rheinmünster, Germany

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**

Acute Toxicity (Oral), Category 4

Eye Damage / Irritation, Category 1

Skin Corrosion / Irritation, Category 2

Skin sensitizer, Category 1

Specific Target Organ Toxicity - Repeated Exposure, Category 2

Hazardous to the Aquatic Environment - Chronic Hazard, Category 3

Classification according to Directives 67/548/EEC and/or 1999/45/EC**R22** Harmful if swallowed.

R36 Irritating to eyes.

R41 Risk of serious damage to eyes.

R43 May cause sensitization by skin contact.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

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

DANGER

Hazard Statement(s)

H302 Harmful if swallowed.

H318 Causes serious eye damage

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H373 May cause damage to organs through prolonged or repeated exposure

H412 Harmful to aquatic life with long lasting effects

Precautionary Statement(s)

Prevention

P271 Use only outdoors or in a well-ventilated area. **P280** Wear protective gloves/protective clothing/eye protection/face protection.

Response

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/physician.

Storage

P405 Store locked up.

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



Xn

R22 Harmful if swallowed.

R36 Irritating to eyes.

R41 Risk of serious damage to eyes.

R43 May cause sensitization by skin contact.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

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.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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 monomer	Xi; R:36-43	Eye Irrit. 2 Skin Sens. 1	<25
-- --	Acrylic monomer	Xn; R:22-41-43- 48/22	Acute Tox. 4 (Oral) Eye Dam. 1 Skin Sens. 1 STOT RE 2	<30
5888-33-5 227-561-6	Isobornyl acrylate	Xi N; R:36/37/38- 51/53	Skin Irrit. 2 Eye Irrit. 2 STOT SE 3 Aquatic Chronic 2	<15
-- --	Photo initiator	Xi; R:43-53	Skin Sens. 1 Aquatic Chronic 4	<2
52408-84-1 500-114-5 --	Acrylic acid ester	Xi; R:36-43	Eye Irrit. 2 Skin Sens. 1	<0.3
13463-67-7 236-675-5 --	Titanium dioxide			<0.8

64742-95-6 265-199-0 --	Solvent naphtha, petroleum, light aromatic	Xn; Xi; N; R:10-37-51/53-65-66-67	Flam Liq. 3 STOT SE 3 Asp. Tox. 1 Aquatic Chronic 2 Note(s): P	<0.5
108-65-6 203-603-9 --	Propylene glycol monomethyl ether acetate	R:10	Flam. Liq. 3	<0.1
7664-38-2 231-633-2 --	Phosphoric acid	C; R:34	Skin Corr. 1B Note(s): B	<0.1

Notes:

B Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 of Annex VI entries with Note B have a general designation of the following type: "nitric acid ...%". In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

P The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0.1 %/w benzene (Einecs No 200-753-7). When the substance is classified as a carcinogen or mutagen, Note E shall also apply. When the substance is not classified as a carcinogen or mutagen at least the S-phrases (2-)23-24-62 shall apply. This note applies only to certain complex oil-derived substances in Annex I.

****Note:** The classification as carcinogen or mutagen does not apply for this substance because the requirements for Note P have been met

Additional Information

The liquid within the cartridges is considered hazardous, and the MSDS has been prepared in case of exposure to the liquid.

TITANIUM DIOXIDE is present in a low concentration, dispersed in a liquid

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

4.1 Description of First Aid Measures

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use.

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

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

eye damage, skin irritation, allergic skin reaction

Delayed

allergic reactions

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

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**

Do not breathe vapor or mist. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection. Contaminated work clothing should not be allowed out of the workplace. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Avoid release to the environment.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Store in accordance with all current regulations and standards. Store locked up. Store in a well-ventilated place. Keep container tightly closed. 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****Titanium dioxide (13463-67-7)**

Austria:	5 mg/m3 TWA (alveolar dust, respirable fraction) 10 mg/m3 STEL (alveolar dust, respirable fraction, 2 X 60 min)
Belgium:	10 mg/m3 TWA
Bulgaria:	10.0 mg/m3 TWA (respirable dust)
Denmark:	6 mg/m3 TWA (as Ti)
Estonia:	5 mg/m3 TWA
France:	10 mg/m3 TWA (as Ti)
Greece:	10 mg/m3 TWA (inhalable fraction); 5 mg/m3 TWA (respirable fraction)
Ireland:	10 mg/m3 TWA (total inhalable dust); 4 mg/m3 TWA (respirable dust)
Latvia:	10 mg/m3 TWA
Lithuania:	5 mg/m3 TWA
Poland:	10.0 mg/m3 TWA (<2% free crystalline silica and containing no asbestos, total inhalable dust)
Portugal:	10 mg/m3 TWA [VLE-MP]
Romania:	15 mg/m3 STEL 10 mg/m3 TWA
Spain:	10 mg/m3 TWA [VLA-ED]
Sweden:	5 mg/m3 LLV (total dust)
United Kingdom:	10 mg/m3 TWA (total inhalable); 4 mg/m3 TWA (respirable) 30 mg/m3 STEL (calculated, total inhalable); 12 mg/m3 STEL (calculated, respirable) 10 mg/m3 TWA

Phosphoric acid (7664-38-2)

EU (IOELV):	1 mg/m3 TWA 2 mg/m3 STEL
Austria:	1 mg/m3 TWA 2 mg/m3 STEL (4 X 15 min)
Belgium:	1 mg/m3 TWA 2 mg/m3 STEL
Bulgaria:	2.0 mg/m3 STEL 1.0 mg/m3 TWA
Czech Republic:	2 mg/m3 Ceiling
Cyprus:	2.0 mg/m3 STEL 1 mg/m3 TWA
Denmark:	1 mg/m3 TWA
Estonia:	2 mg/m3 STEL (vapor) 1 mg/m3 TWA (vapor)
Finland:	1 mg/m3 TWA 2 mg/m3 STEL
France:	0.2 ppm TWA (indicative limit); 1 mg/m3 TWA (indicative limit) 0.5 ppm STEL [VLCT] (indicative limit); 2 mg/m3 STEL [VLCT] (indicative limit)
Germany (TRGS):	2 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 2)
Germany (DFG):	2 mg/m3 TWA MAK (inhalable fraction)

	4 mg/m3 Peak (inhalable fraction)
Gibraltar:	2 mg/m3 STEL 1 mg/m3 TWA
Greece:	1 mg/m3 TWA 3 mg/m3 STEL
Hungary:	2 mg/m3 STEL [CK] 1 mg/m3 TWA [AK]
Ireland:	1 mg/m3 TWA 2 mg/m3 STEL
Italy:	1 mg/m3 TWA 2 mg/m3 STEL
Latvia:	2 mg/m3 STEL 1 mg/m3 TWA
Lithuania:	2 mg/m3 STEL 1 mg/m3 TWA
Luxembourg:	2 mg/m3 STEL 1 mg/m3 TWA
Malta:	2 mg/m3 STEL 1 mg/m3 TWA
Netherlands:	1 mg/m3 TWA 2 mg/m3 STEL
Poland:	Corrosive substance 2 mg/m3 STEL [NDSch] 1 mg/m3 TWA
Portugal:	1 mg/m3 TWA [VLE-MP] 3 mg/m3 STEL [VLE-CD]
Romania:	2 mg/m3 STEL 1 mg/m3 TWA
Slovak Republic:	2 mg/m3 Ceiling 1 mg/m3 TWA
Slovenia:	2 mg/m3 STEL 1 mg/m3 TWA
Spain:	1 mg/m3 TWA [VLA-ED] (indicative limit value; it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound) 2 mg/m3 STEL [VLA-EC]
Sweden:	1 mg/m3 LLV 3 mg/m3 STV
United Kingdom:	1 mg/m3 TWA 2 mg/m3 STEL 1 mg/m3 TWA 3 mg/m3 STEL
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/m ³ TWA 100 ppm STEL; 550 mg/m ³ STEL Skin
Bulgaria:	Skin notation 550.0 mg/m ³ STEL; 100 ppm STEL 275.0 mg/m ³ TWA; 50 ppm TWA
Czech Republic:	550 mg/m ³ Ceiling Potential for cutaneous absorption
Cyprus:	Skin-potential for cutaneous absorption 100 ppm STEL; 550 mg/m ³ STEL 50 ppm TWA; 275 mg/m ³ TWA
Denmark:	Present Potential for cutaneous absorption 50 ppm TWA; 275 mg/m ³ TWA
Estonia:	Sensitizer Skin notation 100 ppm STEL; 550 mg/m ³ STEL 50 ppm TWA; 275 mg/m ³ TWA
Finland:	50 ppm TWA; 270 mg/m ³ TWA 100 ppm STEL; 550 mg/m ³ STEL Potential for cutaneous absorption
France:	50 ppm TWA (restrictive limit); 275 mg/m ³ TWA (restrictive limit) 100 ppm STEL [VLCT] (restrictive limit); 550 mg/m ³ 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/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 1)
Germany (DFG):	50 ppm TWA MAK; 270 mg/m ³ TWA MAK 50 ppm Peak; 270 mg/m ³ Peak
Gibraltar:	Skin notation 100 ppm STEL; 550 mg/m ³ STEL 50 ppm TWA; 275 mg/m ³ TWA
Greece:	50 ppm TWA; 275 mg/m ³ 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

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 white liquid ink
Color:	white	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

*****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:

Titanium dioxide (13463-67-7)

Oral LD50 Rat >10000 mg/kg

Solvent naphtha, petroleum, light aromatic (64742-95-6)

Inhalation LC50 Rat >5.2 mg/L 4 h; Inhalation LC50 Rat 3400 ppm 4 h; Dermal LD50 Rabbit >2000 mg/kg

Phosphoric acid (7664-38-2)

Oral LD50 Rat 1530 mg/kg; Dermal LD50 Rabbit 2730 mg/kg; Inhalation LC50 Rat >850 mg/m³ 1 h

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

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

Irritation / Corrosivity

Contact with uncured ink may cause eye irritation and skin 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****Titanium dioxide (13463-67-7)**

IARC: Monograph 93 [2010]; Monograph 47 [1989] (Group 2B (possibly carcinogenic to humans))

DFG: Category 3A (could be carcinogenic for man, inhalable fraction with the exception of ultra small particles)

Reproductive Toxicity

No data available for the mixture.

Specific Target Organ Toxicity - Single Exposure

No data available.

Specific Target Organ Toxicity - Repeated Exposure

May cause damage to organs through prolonged or repeated exposure

Aspiration Hazard

No data available for the mixture.

*****Section 12 - ECOLOGICAL INFORMATION*******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).

Solvent naphtha, petroleum, light aromatic (64742-95-6)

Fish: 96 Hr LC50 Oncorhynchus mykiss: 9.22 mg/L

Invertebrate: 48 Hr EC50 Daphnia magna: 6.14 mg/L

Phosphoric acid (7664-38-2)

Fish: 96 Hr LC50 Gambusia affinis: 3 - 3.5 mg/L

Invertebrate: 12 Hr EC50 Daphnia magna: 4.6 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

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)

No components of this material are listed.

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.

Titanium dioxide (13463-67-7)

IBC Code: Category Z (slurry)

Phosphoric acid (7664-38-2)

IBC Code: Category Z

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

IBC Code: Category Z

*****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****Acrylic monomer (5117-12-4)**

ID Number 6697, hazard class 2 - hazard to waters

Isobornyl acrylate (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

Titanium dioxide (13463-67-7)

ID Number 1345, not considered hazardous to water

Solvent naphtha, petroleum, light aromatic (64742-95-6)

ID Number 775, hazard class 2 - hazard to waters

Phosphoric acid (7664-38-2)

ID Number 392, 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

Denmark Regulations**Environmental Protection Agency List of Undesirable Substances**

No components of this material are listed.

Advisory List for Self-Classification of Dangerous Substances**2-Propenoic acid, 3-[2,2-dimethyl-1-oxo-3-[(1-oxo-2-propenyl)oxy]propoxy]-2,2-dimethylpropyl ester (30145-51-8)**

Xn; R22

Xi; R38

R43

N; R50

Carc.Cat.3; R40

Advisory List for CLP-Classifications**2-Propenoic acid, 3-[2,2-dimethyl-1-oxo-3-[(1-oxo-2-propenyl)oxy]propoxy]-2,2-dimethylpropyl ester (30145-51-8)**

Carc2,AcuteTox4,SkinSens1,SkinIrr2,Acute1

EU Inventory

Substance Analysis - Inventory

Component	CAS	EEC
Acrylic monomer	--	EIN
Acrylic monomer	--	ELN
Isobornyl acrylate	5888-33-5	EIN
Photo initiator	--	ELN
Acrylic acid ester	52408-84-1	NLP
Titanium dioxide	13463-67-7	EIN
Solvent naphtha, petroleum, light aromatic	64742-95-6	EIN
Phosphoric acid	7664-38-2	EIN
Propylene glycol monomethyl ether acetate	108-65-6	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: 1/23/2013

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.

R22 Harmful if swallowed.

R34 Causes burns.

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

R41 Risk of serious damage to eyes.

R43 May cause sensitization by skin contact.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

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.

R65 Harmful: may cause lung damage if swallowed.

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

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