

SAFETY DATA SHEET

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Issuing Date 07-Feb-2019 Revision Date 07-Feb-2019 Revision Number 2

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code(s) SDS-06161 EN E

Product Name Rigur, RGD450

PN (Part Number) OBJ-03308, OBJ-03309, OBJ-04066, OBJ-06263

Denmark

PR No N/A

Chemical name Acrylic formulation

Pure substance/mixture Mixture

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

Recommended Use Printing inks

Uses advised against 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

1.3. Details of the supplier of the safety data sheet

<u>Importer</u>

Stratasys EMEA Regional Office Airport Boulevard B 120 77836 Rheinmünster, Germany Phone: +49-7229-7772-0

For further information, please contact

E-mail address info@Stratasys.com

1.4. Emergency telephone number

Emergency Telephone +44 1235 239670 - Europe - Multi lingual response

Austria Poison Information Centre (AT): +43-(0)1-406 43 43

 Belgium
 Poison Centre (BE): +32 70 245 245

 Croatia
 Poison Control (CR): +385 1 2348 342

Czech Republic Poison Control (CS): +420 224 919 293, +420 224 915 402

 Denmark
 Poison Control Hotline (DK): +45 82 12 12 12

 Estonia
 Poison Control (ET): 16662, (+372) 626 93 90

 Finland
 Poison Information Centre (FI): +358 9 471 977

France ORFILA (FR): + 01 45 42 59 59

Germany Poison Centre Berlin (DE): +49 030 30686 790 (24 h service, Advice in German and

English)

Greece Poison Information Center (EL): (0030) 2107793777 **Hungary** Poison Information Service (HU): (+ 36-80) 201-199

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IcelandPoison Information Center: 543 2222ItalyPoison Centre, Milan (IT): +39 02 6610 1029LatviaPoison Information Center (LV): +371 67042473

Lithuania Poison Information Office (LT): +370 5236 20 52 or +370 687 53 378

Luxembourg Belgian Poison Center: (+352) 8002-5500

Netherlands National Poisons Information Center (NVIC): 030-274 8888

Norway Poison Center: 22 59 13 00

PortugalPoison Information Centre (PT): +351 21 330 3284SpainPoison Information Service (ES): +34 91 562 04 20

Sweden 112 – ask for Poisons Information

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Oral	Category 4 - (H302)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitisation	Category 1B - (H317)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

Contains 4-(1-Oxo-2-propenyl)-morpholine, (Octahydro-4,7-methano-1H-indenediyl)bis(methylene)diacrylate, Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate



Signal word Danger

Hazard statements

H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H373 - May cause damage to organs through prolonged or repeated exposure

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P273 - Avoid release to the environment

P280 - Wear protective gloves and eye/face protection

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

P391 - Collect spillage

P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

Causes mild skin irritation. Toxic to aquatic life.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

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Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Proprietary	Listed	-	30- 50	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Sens. 1 (H317) STOT RE 2 (H373)	17-2120129668-46 -0000
Proprietary	Listed	-	10 - 30	Skin Sens. 1B (H317) Aquatic Chronic 2 (H411)	No data available
Proprietary	Listed	-	3-10	Skin Irrit. 2 (H315) Eye Irrit.2 H319 Skin Sens. 1B (H317) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	17-2120129664-54 -0000
Proprietary	Listed	-	0.3-1	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)	No data available
Titanium dioxide	236-675-5	13463-67-7	0.3-1	Not classified	No data available
Aluminium Hydroxide	-	21645-51-2	<0.1	Not classified	No data available
2-methoxy-1-methylethyl acetate	203-603-9	108-65-6	<0.1	Flam. Liq. 3 (H226) STOT SE 3 (H336)	No data available
camphene	201-234-8	79-92-5	<0.1	Flam. Sol. 2 (H228) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
1,7,7-Trimethyltricyclo[2.2.1.02,6]hep tane	208-083-7	508-32-7	<0.1	Eye Irrit.2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Phosphoric acid	231-633-2	7664-38-2	<0.1	Skin Corr. 1B (H314) Eye Dam. 1 (H318)	No data available
Acrylic acid	201-177-9	79-10-7	<0.1	Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Corr. 1A (H314) Eye Dam. 1 (H318) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	No data available
4-Methoxyphenol	205-769-8	150-76-5	<0.1	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Repr. 2 (H361d) Aquatic Chronic 3 (H412)	No data available
2,3-Epoxypropyl phenyl ether	204-557-2	122-60-1	<0.1	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Muta. 2 (H341) Carc. 1B (H350) STOT SE 3 (H335) Aquatic Chronic 3 (H412)	No data available

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

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General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact Get immediate medical advice/attention. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an

allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor.

Ingestion Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Call a doctor.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

Symptoms Burning sensation. Itching. Rashes. Hives.

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

Note to doctorsMay cause sensitisation in susceptible persons. Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Class B fires: Use carbon dioxide (CO2), regular dry chemical (sodium bicarbonate), regular foam (Aqueous Film Forming Foam-AFFF), or water spray to cool containers

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

Product is or contains a sensitiser. May cause sensitisation by skin contact.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Keep out of drains, sewers, ditches and waterways. Inhalation is a health risk. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from

and upwind of spill/leak.

Occupational Spill Release Intact cartridges do not pose a leak or spill hazard. Damaged cartridges may leak uncured

ink. Stop leak if you can do it without risk Use water spray to reduce vapours or divert vapour cloud drift Absorb spill with inert material (e.g. dry sand or earth), then place in a

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chemical waste container Keep out of drains, sewers, ditches and waterways

Other Information Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containmentUse a non-combustible material like vermiculite, sand or earth to soak up the product and

place into a container for later disposal. Following product recovery, flush area with water.

Methods for cleaning upTake up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handlingDo not eat, drink or smoke when using this product. Avoid breathing vapours or mists.

Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. 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. Avoid release to the environment.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other

chemicals. Store in a cool, well ventilated area. Store in accordance with local regulations. Keep container tightly closed. Store between 15 °C and 27 °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.

Hints on joint storage

Storage class LGK10 - Combustible liquids unless storage class 3

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure disclaimer Personal protection measures are only needed if cartridge is damaged punctured causing

spillage of material.

8.1. Control parameters

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Exposure Limits

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2-methoxy-1-methylethyl	TWA: 50 ppm	TWA: 50 ppm	STEL: 520 mg/m ³	TWA: 50 ppm	TWA: 50 ppm
acetate	TWA: 275 mg/m ³	TWA: 275 mg/m ³	TWA: 260 mg/m ³	TWA: 270 mg/m ³	TWA: 275 mg/m ³
108-65-6	STEL 100 ppm	STEL: 50 ppm	-	STEL: 75 ppm	STEL: 100 ppm
	STEL 550 mg/m ³	STEL: 275 mg/m ³		STEL: 337.5 mg/m ³	STEL: 550 mg/m ³
	H*			H*	Sk*
Phosphoric acid	TWA: 1 mg/m ³	TWA: 1 mg/m ³	STEL: 2 mg/m ³	TWA: 1 mg/m ³	TWA: 1 mg/m ³
7664-38-2	STEL 2 mg/m ³	STEL: 2 mg/m ³	TWA: 1 mg/m ³	STEL: 2 mg/m ³	STEL: 2 mg/m ³
Acrylic acid	-	TWA: 10 ppm	STEL: 29.5 mg/m ³	TWA: 10 ppm	TWA: 2 ppm
79-10-7		TWA: 30 mg/m ³	TWA: 10 mg/m ³	TWA: 30 mg/m ³	TWA: 6 mg/m ³
		STEL: 10 ppm		STEL: 15 ppm	STEL: 6 ppm
		STEL: 30 mg/m ³		STEL: 45 mg/m ³	STEL: 18 mg/m ³
4-Methoxyphenol	TWA: 5 mg/m ³	-	TWA: 5 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³
150-76-5	STEL 10 mg/m ³			STEL: 10 mg/m ³	STEL: 15 mg/m ³
2,3-Epoxypropyl phenyl	H*	TWA: 1 ppm	STEL: 3 mg/m ³	TWA: 1 ppm	TWA: 0.1 ppm
ether		TWA: 6 mg/m ³	TWA: 0.6 mg/m ³	TWA: 5 mg/m ³	TWA: 0.6 mg/m ³
122-60-1		H*		STEL: 2 ppm	STEL: 0.3 ppm
				STEL: 10 mg/m ³	STEL: 1.8 mg/m ³

Derived No Effect Level (DNEL)No information available.

Predicted No Effect Concentration

(PNEC)

No information available.

8.2. Exposure controls

Personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand Protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

Environmental exposure controls No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical stateliquidAppearanceInk cartridgeOdourCharacteristic

Colour white

Odour threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

H N/A

Melting point / freezing pointNo data availableNone knownBoiling point / boiling rangeNo data availableNone knownFlash point135 °C

Flash point 135 °C
Evaporation rate No data available None known
Flammability (solid, gas) No data available None known

Flammability (solid, gas)

No data available

None known

None known

None known

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Upper flammability limit:

Lower flammability limit

Vapour pressure

No data available

No data available

Vapour pressureNo data availableNone knownVapour densityNo data availableNone knownRelative density1.11g/cm3

Water solubility Insoluble in water

Solubility(ies) None known No data available **Partition coefficient** No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known **Dvnamic viscosity** No data available None known

Explosive properties No information available Oxidising properties No information available

9.2. Other information

Softening point
Molecular weight
VOC Content (%)
Liquid Density
Bulk density
Particle Size
Particle Size
No information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity Heating may cause a fire.

10.2. Chemical stability

Stability Decomposes on exposure to light. Unstable if heated.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid Avoid exposure to heat and light.

10.5. Incompatible materials

Incompatible materialsNot applicable under normal conditions of use and storage.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal Decomposition Products. Combustion: oxides of carbon.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Information on likely routes of exposure

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Product Information

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Inhalation Specific test data for the substance or mixture is not available.

Eye contact Severely irritating to eyes. Causes serious eye damage. May cause burns. May cause

irreversible damage to eyes. (based on components).

Skin contact May cause irritation. May cause sensitisation by skin contact. Repeated or prolonged skin

contact may cause allergic reactions with susceptible persons. (based on components).

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if

swallowed. (based on components).

Information on toxicological effects

Symptoms

Redness. Burning. May cause blindness. Itching. Rashes. Hives.

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 1,408.80 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Proprietary	= 588 mg/kg (rat)	> 2000 mg/kg (rat)	= 5.28 mg/l (rat)
Proprietary	= 2.000 mg/kg (Rat) (Method:	= 2.000 mg/kg (Rat)(Method:	-
	OECD Test Guideline 423)	OECD Test Guideline 402)	
Proprietary	= 4890 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	-
Titanium dioxide	> 10000 mg/kg	-	-
	> 10000 mg/kg (Rat)		
Aluminium Hydroxide	> 5000 mg/kg (Rat)	-	-
2-methoxy-1-methylethyl	2-methoxy-1-methylethyl = 8532 mg/kg (Rat)		-
acetate	acetate		
camphene	> 5 g/kg (Rat)	> 2500 mg/kg (Rabbit)	= 17100 mg/m ³ (Rat) 1 h
Phosphoric acid	= 1530 mg/kg (Rat)	= 2740 mg/kg (Rabbit)	> 850 mg/m ³ (Rat) 1 h
Acrylic acid = 193 mg/kg (Rat) = 33500		= 295 mg/kg (Rabbit) = 280	= 3.6 mg/L (Rat) 4 h = 11.1
μg/kg (Rat)		μL/kg (Rabbit)	mg/L (Rat)1h
4-Methoxyphenol	= 1600 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
2,3-Epoxypropyl phenyl ether	= 2600 mg/kg = 3850 mg/kg	= 1500 mg/kg (Rabbit) = 1500	> 100 ppm (Rat) 8 h
	= 2600 mg/kg (Rat) = 3850	μL/kg (Rabbit)	
	mg/kg (Rat)		

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation May cause skin irritation. Classification based on data available for ingredients.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Risk of serious

damage to eyes.

Respiratory or skin sensitisation May cause sensitisation by skin contact. Classification based on data available for

ingredients.

Germ cell mutagenicity

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

Chemical name	European Union
2,3-Epoxypropyl phenyl ether	Muta. 2

Carcinogenicity

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The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union
2,3-Epoxypropyl phenyl ether	Carc. 1B

Reproductive toxicitySTOT - single exposure
No information available.
No information available.

STOT - repeated exposure Classification based on data available for ingredients.

Aspiration hazard No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity Toxic to aquatic life with long lasting effects

Unknown aquatic toxicityContains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Alexandra plants	Field	Taviaitus	Constance
Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
	(00 " ()		microorganisms	(00 (1 (1 1 1 1)
Proprietary	120 mg/l (algae)	-	-	120 mg/kg (daphnia)
Proprietary	(Pseudokirchneriella	(Fish) : 4,95 mg/l	-	(Daphnia magna Straus)
	subcapitata): 1,6 mg/l			: 2,36 mg/l (Method:
	(Method: OECD Test			OECD Test Guideline
	Guideline 201)			202)
Proprietary	1.98 mg/l Fresh water	0.704 mg/l Fresh water	ı	0.524 mg/l Fresh water
2-methoxy-1-methylethyl	-	161: 96 h Pimephales	-	500: 48 h Daphnia
acetate		promelas mg/L LC50		magna mg/L EC50
		static		
camphene	1000: 72 h	0.72: 96 h Brachydanio	-	22: 48 h Daphnia magna
·	Desmodesmus	rerio mg/L LC50		mg/L EC50
	subspicatus mg/L EC50	flow-through 150: 96 h		-
	,	Brachydanio rerio mg/L		
		LC50 static		
Phosphoric acid	-	3 - 3.5: 96 h Gambusia	-	4.6: 12 h Daphnia magna
1		affinis mg/L LC50		mg/L EC50
Acrylic acid	0.04: 72 h Desmodesmus	222: 96 h Brachydanio	-	95: 48 h Daphnia magna
	subspicatus mg/L EC50	rerio mg/L LC50		mg/L EC50 270: 24 h
	0.17: 96 h	semi-static		Daphnia magna mg/L
	Pseudokirchneriella			LC50 Static
	subcapitata mg/L EC50			
4-Methoxyphenol	-	28.5: 96 h Oncorhynchus	-	-
		mykiss mg/L LC50		
		flow-through 84.3: 96 h		
		Pimephales promelas		
		mg/L LC50 flow-through		
2,3-Epoxypropyl phenyl	-	43: 96 h Carassius	-	-
ether		auratus mg/L LC50 static		

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient

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2-methoxy-1-methylethyl acetate	0.43
Acrylic acid	0.46
4-Methoxyphenol	1.3

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

12.6. Other adverse effects

Other adverse effects No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

Waste codes / waste designations

according to EWC / AVV

08 03 12* Waste ink containing dangerous substances.

Section 14: TRANSPORT INFORMATION

Additional information The environmentally hazardous substance mark is not required when transported in sizes

of ≤5L or ≤5kg

The marine pollutant mark is not required when transported in sizes of ≤5L or ≤5kg

IMDG

14.1 UN Number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3 Transport hazard class(es) Ш

14.4 Packing group

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Description

((Octahydro-4,7-methano-1H-indenediyl)bis(methylene)diacrylate,

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate), 9, III, Marine pollutant

14.5 Marine pollutant This product contains a chemical which is listed as a severe marine pollutant according to

IMDG/IMO

Environmental Hazard Yes

274, 335, 969 14.6 Special Provisions **EmS-No** F-A. S-F

14.7 Transport in bulk according to No information available

Annex II of MARPOL 73/78 and the

IBC Code

RID

14.1 UN Number

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3 Transport hazard class(es) 9 9 Labels Ш 14.4 Packing group

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UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Description

((Octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate.

exo-1,7,7-Trimethylbicyclo[2,2,1]hept-2-yl acrylate), 9, III

14.5 Environmental Hazard Yes

14.6 Special Provisions 274, 335, 375, 601

Classification code M6

ADR

14.1 UN Number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3 Transport hazard class(es) 9 Labels 14.4 Packing group Ш

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Description

((Octahydro-4,7-methano-1H-indenediyl)bis(methylene)diacrylate,

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate), 9, III

14.5 Environmental Hazard

14.6 Special Provisions 274, 335, 601, 375

M6 Classification code **Tunnel restriction code** (E)

IATA

14.1 UN Number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3 Transport hazard class(es) 14.4 Packing group

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

((Octahydro-4.7-methano-1H-indenediyl)bis(methylene)diacrylate.

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate), 9, III

14.5 Environmental Hazard

14.6 Special Provisions A97, A158, A197 9L

ERG Code



Section 15: REGULATORY INFORMATION

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

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
2-methoxy-1-methylethyl acetate	RG 84	-
108-65-6		
4-Methoxyphenol	RG 65	-
150-76-5		

Germany

Water hazard class (WGK) hazardous to water (WGK 2)

European Union

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Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
2,3-Epoxypropyl phenyl ether - 122-60)-1 28.	

Persistent Organic Pollutants

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

15.2. Chemical safety assessment

Chemical Safety Report No information available

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H226 - Flammable liquid and vapour

H228 - Flammable solid

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H341 - Suspected of causing genetic defects

H350 - May cause cancer

H361d - Suspected of damaging the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H411 - Toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

H413 - May cause long lasting harmful effects to aquatic life

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method

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A cute imbalation taxisity, mag	Color dation modified
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration toxicity	Calculation method
Ozone	Calculation method

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

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End of Safety Data Sheet

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