

Safety Data Sheet

Issue date 21-Jan-2020 (DD-MM-YYYY) Revision date 10-Apr-2024 (DD-MM-YYYY)

Version 7.1

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

1.1. Product Identifier

Product name T53R1

UFI:25NW-9KD6-PJ03-WU8J

Pure substance/mixture mixture

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

Recommended Use Ink jet ink (UV curing)

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Company Name Importer / Supplier

EPSON EUROPE B.V. Azie building, Atlas ArenA, Hoogoorddreef 5,1101 BA Amsterdam Zuidoost The

Netherlands

Phone number: +31-20-314-5000

For further information, please contact

Contact Point +31-20-314-5000 Email address +31-20-314-5000 chemicals@epson.eu

1.4. Emergency telephone number

Emergency telephone Phone number: +31-20-314-5000

Giftnotruf Berlin; +49 (0)30 30686 790 Antigif Belgisch; +32 (0)70 245 245 Austria: +43 1 406 43 43

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Oral	Category 4 - (H302)
skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitisation	Category 1A - (H317)
Reproductive toxicity	Category 2 - (H361)
Specific target organ toxicity — repeated exposure	Category 1 - (H372)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

2.2. Label Elements



T53R1-02

Symbols/Pictograms



Signal Word DANGER

hazard statements

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H361 - Suspected of damaging fertility or the unborn child

H372 - Causes damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Contains 2-Propenoic acid, phenylmethyl ester

2H-Azepin-2-one, 1-ethenylhexahydro-

Morpholine, 4-(1-oxo-2-propenvl)-

2-Propenoic acid, 1,7,7-trimethylbicyclo[2,2,1]hept-2-yl ester, exo-

EUH208 - May produce an allergic reaction

precautionary statements

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

P330 - Rinse mouth

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

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P321 - Specific treatment

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P362 + P364 - Take off contaminated clothing and wash it 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

P310 - Immediately call a POISON CENTER or doctor

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P272 - Contaminated work clothing should not be allowed out of the workplace

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P405 - Store locked up

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

P314 - Get medical advice/attention if you feel unwell

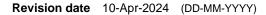
P273 - Avoid release to the environment

P391 - Collect spillage

2.3. Other Hazards

General Hazards

No information available





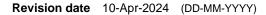
SECTION 3: Composition/information on ingredients

3.1 Substances

3.2 MIXTURES

Ingredients contributing to the classification of the mixture, etc.

Chemical name	EC No	CAS No	weight-%	Classification according to	REACH registration
				Regulation (EC) No. 1272/2008 [CLP] / Other	number
2-Propenoic acid, phenylmethyl ester	219-673-9	2495-35-4	30-40	Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-
2H-Azepin-2-one, 1-ethenylhexahydro-	218-787-6	2235-00-9	10-20	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Skin Sens. 1B (H317) STOT RE 1 (H372)	-
Morpholine, 4-(1-oxo-2-propenyl)-	-	5117-12-4	10-20	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Sens. 1 (H317) STOT RE 2 (H373)	-
2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]he pt-2-yl ester, exo-	227-561-6	5888-33-5	10-20	Acute Tox. 5 (H303) Acute Tox. 5 (H313) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1A (H317) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-
Diphenyl-2,4,6-trimethylbenzo yl phosphine oxide	278-355-8	75980-60-8	5-10	Repr. 2 (H361)	-
2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester	230-811-7	7328-17-8	5-10	Acute Tox. 4 (H302) Acute Tox. 3 (H311) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1A (H317) Aquatic Chronic 2 (H411)	-
Trimethylolpropane polyoxyethylene triacrylate	-	28961-43-5	1-5	Eye Irrit. 2 (H319) Skin Sens. 1B (H317) Aquatic Chronic 3 (H412)	-
Carbon black	215-609-9	1333-86-4	1-5	STOT RE 1 (H372)	-
Bis(2-ethylhexyl)-2-butenedioa te	205-524-5	142-16-5	1-5	Skin Sens. 1B (H317) Aquatic Acute 3 (H402) Aquatic Chronic 1 (H410)	-
Benzene, ethenyl-, copolymer with 2,5-Furandione and Benzene, 1,1'-(1,1-dimethyl-3-methylene -1,3-propanediyl)bis-, rp. with Oxirane,methyl, polymer with	-	-	<1	Aquatic Acute 1 (H400)	-





oxirane, 2-aminopropyl methyl ether and 1,3-Propanediamine, N,N-dimethyl-, Oxirane, mono[(C10-16-alkyloxy)methyl] derivs quaternised, compound with Benzoic acid					
Caprolactam	203-313-2	105-60-2	<1	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) Acute Tox. 4 (H312) Repr. 2 (H361) STOT RE 1 (H372)	-
Poly[oxy(methyl-1,2-ethanediy)], .alpha.,.alpha.',.alpha."-1,2, 3-propanetriyltris[.omega[(1- oxo-2-propenyl)oxy]-	-	52408-84-1	<1	Eye Irrit. 2A (H319) Skin Sens. 1 (H317)	-
1,6-Hexanediol diacrylate	235-921-9	13048-33-4	<1	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-
2,5-Cyclohexadien-1-one, 2,6-bis(1,1-dimethylethyl)-4-(p henylmethylene)-	-	7078-98-0	< 1	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)	-
4-Methoxyphenol	205-769-8	150-76-5	<1	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Carc. 2 (H351) Repr. 2 (H361) Aquatic Acute 2 (H401)	-

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Immediate medical attention is required

If symptoms persist, call a doctor

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

Do not get in eyes, on skin, or on clothing

May produce an allergic reaction

inhalation Remove to fresh air

Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation

Seek immediate medical attention/advice

If breathing is irregular or stopped, administer artificial respiration Move to fresh air in case of accidental inhalation of vapours

If symptoms persist, call a doctor

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing

IF INHALED: Call a POISON CENTER or doctor if you feel unwell



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Skin contact Immediate medical attention is required

Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes

Wash contaminated clothing before reuse

Wash off immediately with soap and plenty of water

If skin irritation persists, call a doctor

Get medical attention if irritation develops and persists

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes Keep eye wide open while rinsing

Call a doctor immediately

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes

If symptoms persist, call a doctor

If eye irritation persists: Get medical advice/attention

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 or poison control centre immediately

Call a doctor

Potential for aspiration if swallowed

Get medical attention Clean mouth with water

Self-protection of the first aider

Use personal protection recommended in Section 8

Avoid contact with skin, eyes or clothing

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

Symptoms No information available

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

Note to doctors May cause sensitization of susceptible persons

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media CO2, dry chemical, dry sand, alcohol-resistant foam, mist of alkali salts water

Move containers from fire area if you can do it without risk

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment

Remove combustible materials from their surroundings immediately

Unsuitable extinguishing mediaDo not use a solid water stream as it may scatter and spread fire

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

In the event of fire and/or explosion do not breathe fumes May cause sensitisation by inhalation and skin contact



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Thermal decomposition can lead to release of irritating and toxic gases and vapours

The product causes irritation of eyes, skin and mucous membranes

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary

Use personal protective equipment as required

In the event of fire and/or explosion do not breathe fumes

Special protective equipment for fire-fighters

Special Extinguishing Media Cool container with water spray

Flammable properties May re-ignite after fire is extinguished

Flammable/combustible material

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required

Keep people away from and upwind of spill/leak

Evacuate personnel to safe areas

Stay upwind

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area)

Avoid contact with skin, eyes and inhalation of vapours

In the case of vapour formation use a respirator with filter model

In case of fire: Stop leak if safe to do so

Do not touch damaged containers or spilled material unless wearing appropriate protective

clothing

Ensure adequate ventilation, especially in confined areas Take precautionary measures against static discharges

Other information Ventilate the area

6.2. Environmental precautions

Environmental Precautions Prevent further leakage or spillage if safe to do so

Prevent product from entering drains

Do not flush into surface water or sanitary sewer system See Section 12 for additional Ecological Information

Dispose of contents/container to an approved waste disposal plant

Avoid release to the environment

Collect spillage

6.3. Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so

Cover powder spill with plastic sheet or tarp to minimise spreading

Dyke far ahead of liquid spill for later disposal

Methods for cleaning up Cover liquid spill with sand, earth or other non-combustible absorbent material

Cover powder spill with plastic sheet or tarp to minimise spreading

Sweep up and shovel into suitable containers for disposal

Soak up with inert absorbent material

Dam up

Pick up and transfer to properly labelled containers



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Use only non-sparking tools

6.4. Reference to other sections

Reference to other sections No information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing

Wash contaminated clothing before reuse

Do not eat, drink or smoke when using this product Use personal protection recommended in Section 8 Do not breathe dust/fume/gas/mist/vapours/spray

Use with local exhaust ventilation

Take precautionary measures against static discharges

Use only in well-ventilated areas

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea

Wash hands thoroughly and gargle after handling

Burn or dispose of the wiping cloths used to clean up the product at once

May cause sensitisation by inhalation and skin contact

General hygiene considerations When using do not eat, drink or smoke

Regular cleaning of equipment, work area and clothing is recommended

Avoid contact with skin, eyes or clothing Wash hands thoroughly after handling

Keep away from food, drink and animal feedingstuffs

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place

Keep out of the reach of children Keep in properly labelled containers

Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric

motors and static electricity)

Use spark-proof tools and explosion-proof equipment

Incompatible with oxidising agents

The product shall be stored in the original containers/vessels

Polymerisation is caused by ultra violet rays or heat. Store in a cool, dark and

well-ventilated place. Containers/vessels should be tightly closed

7.3. Specific end use(s)

Other information No information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chemical name	European Union	United Kingdom	France	Spain	Germany
Carbon black	-	STEL: 7 mg/m ³	TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³	-
		TWA: 3.5 mg/m ³			
Caprolactam	TWA: 10 mg/m ³ dust	STEL: 3 mg/m ³	TWA: 10 mg/m ³	STEL: 40 mg/m ³	TWA: 5 mg/m ³
	and vapour	STEL: 20 mg/m ³	STEL: 40 mg/m ³	TWA: 10 mg/m ³	Ceiling / Peak: 10
	STEL 40 mg/m ³ dust	TWA: 1 mg/m ³			mg/m³



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	and vapour	TWA: 10 mg/m ³			
4-Methoxyphenol	=	=	TWA: 5 mg/m ³	TWA: 5 mg/m ³	-

Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Carbon black	-	TWA: 3.5 mg/m ³	-	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 3.5 mg/m ³
Caprolactam	TWA: 10 mg/m ³ STEL: 40 mg/m ³	STEL: 40 mg/m ³ TWA: 10 mg/m ³	TWA: 20 mg/m ³ TWA: 1 mg/m ³	TWA: 10 mg/m ³ STEL: 40 mg/m ³	TWA: 2 ppm TWA: 10 mg/m³ TWA: 1 mg/m³
4-Methoxyphenol	=	TWA: 5 mg/m ³	=	=	TWA: 5 mg/m ³

Chemical name	Austria	Switzerland	Poland	Norway	Ireland	Sweden	Czech Republic	Luxembourg
Carbon black	-	-	TWA: 4 mg/m ³	TWA: 3.5 mg/m³ STEL: 7 mg/m³	TWA: 3 mg/m³ STEL: 15 mg/m³	3 mg/m³ TLV NGV (inhalable fraction)	TWA: 2.0 mg/m ³	-
Caprolactam	STEL: 40 mg/m³ TWA: 5 mg/m³	TWA: 5 mg/m ³	STEL: 15 mg/m³ TWA: 5 mg/m³	TWA: 10 ppm TWA: 40 mg/m³ STEL: 60 mg/m³ STEL: 15 ppm	STEL: 40 mg/m³	5 mg/m³ TLV NGV (dust and vapor) 40 mg/m³ Binding STEL Bindande KGV (dust and vapor)	Ceiling: 40 mg/m ³	10 mg/m³ TWA (powder and vapor) 40 mg/m³ STEL (powder and vapor)
4-Methoxyphenol	STEL: 10 mg/m ³ TWA: 5 mg/m ³	-	TWA: 5 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 5 mg/m ³ STEL: 15 mg/m ³	-	-	-

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration No information available

(PNEC)

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas

Showers

Eyewash stations Ventilation systems

Personal Protective Equipment

Eye/face Protection Tight sealing safety goggles

Face protection shield

Wear safety glasses with side shields (or goggles)

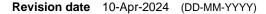
Hand protection Wear protective gloves

Skin and Body Protection Suitable protective clothing

Gloves made of plastic or rubber Wear suitable protective clothing

Apron

Protective shoes or boots





Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment

Respirator cartridge should be exchanged at regular intervals or at proper time according to

No information available

breakthrough time

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained

Do not allow into any sewer, on the ground or into any body of water

Prevent product from entering drains

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State liquid

No information available appearance Odour characteristic odour odour threshold color colored No information available

Remarks • Method Property Values

not applicable Melting point/freezing point no data available Boiling point/boiling range

no data available No information available Flash Point Ceta Closed Cup

≥94°C **Evaporation Rate** no data available

Combustibility no data available

Flammability Limits in Air

Upper flammability limits no data available Lower Flammability Limit no data available

vapour pressure no data available No information available Vapour density no data available No information available

Relative Density 1.00-1.10 solubility(ies)

Water solubility Immiscible in water

Organic Solvent Solubility soluble in organic solvents

Partition coefficient no data available No information available **Autoignition temperature** no data available No information available decomposition temperature no data available No information available Kinematic viscosity no data available

Explosive properties No information available Oxidising properties No information available

Particle characteristics

Particle Size No information available **Particle Size Distribution** No information available

9.2. Other information

softening point no data available no data available density

Chemical name	Boiling point °C	density	Vapour pressure	Vapour density	Flash Point	Autoignition temperature
2-Propenoic acid, phenylmethyl ester	228 °C 1013.25 hPa	1.0573 g/cm3 at 20 °C	-	-	-	-
Carbon black	=	1.86 g/cm3	-	-	=	ů.
Bis(2-ethylhexyl)-2-butened ioate	164 °C 10 mmHg	0.94 g/cm3 at 20 °C	<0.01 hPa at 20 °C	-	185 °C	-
Caprolactam	270 °C	1.014 g/cm3 at 80 °C	0.0014 hPa at 20 °C	-	152 °C closed cup	395 °C



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1,6-Hexanediol diacrylate	-	-	0.0005 mmHg at 21 °C	-	132 °C closed cup	-
4-Methoxyphenol	243 - 246 °C	=	=	4.3	132 °C open cup	421 °C

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity no data available

10.2. Chemical stability

stability Stable under normal conditions

Polymerisation can occur

Heating may cause an explosion

Explosion data

Sensitivity to Mechanical Impact May be ignited by heat, sparks or flames **Sensitivity to Static Discharge** May be ignited by heat, sparks or flames

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No information available

10.4. Conditions to avoid

Conditions to Avoid Take precautionary measures against static discharges

Extremes of temperature and direct sunlight

Heat

10.5. Incompatible materials

Incompatible Materials Strong acids; OXIDISERS; alkali; light; peroxides; radical initiators; Heat

10.6. Hazardous decomposition products

Hazardous decomposition products May emit toxic fumes under fire conditions

SECTION 11: Toxicological information

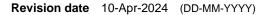
Repeated or prolonged contact may cause allergic reactions in very susceptible persons May cause sensitisation by skin contact

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

Acute Toxicity

inhalationReference to other sections; 4Eye ContactReference to other sections; 4Skin contactReference to other sections; 4INGESTIONReference to other sections; 4

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





 ATEmix (oral)
 1,573.50 mg/kg

 ATEmix (dermal)
 2,279.80 mg/kg

Unknown acute toxicity

10.0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

56.5 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

98.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

94.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

90.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour)

Chemical name	Oral LD50	dermal LD50	Inhalation LC50	Classification according to Regulation (EC) No. 1272/2008 [CLP] / Other	Japan GHS Classification / Other
2-Propenoic acid, phenylmethyl ester	•	•	•	Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Skin Irrit. 2 Skin Sens. 1B Aquatic Acute 1 Aquatic Chronic 1
2H-Azepin-2-one, 1-ethenylhexahydro-	-	-	-	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Skin Sens. 1B (H317) STOT RE 1 (H372)	Acute Tox. Oral 4 Eye Irrit. 2 Skin Sens. 1B STOT RE 1
Morpholine, 4-(1-oxo-2-propenyl)-	-	-	-	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Sens. 1 (H317) STOT RE 2 (H373)	-
2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]he pt-2-yl ester, exo-	4890 mg/kg (Rat)	> 5 g/kg (Rabbit)	-	Acute Tox. 5 (H303) Acute Tox. 5 (H313) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1A (H317) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1A STOT SE 3 Aquatic Acute 1 Aquatic Chronic 1
Diphenyl-2,4,6-trimethylbenzo yl phosphine oxide	-	-	-	Repr. 2 (H361)	-
2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester	_	_		Acute Tox. 4 (H302) Acute Tox. 3 (H311) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1A (H317) Aquatic Chronic 2 (H411)	Acute Tox. Oral 4 Acute Tox. Der. 3 Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1A Aquatic Chronic 2
Trimethylolpropane polyoxyethylene triacrylate	_	> 13 g/kg (Rabbit)	_	Eye Irrit. 2 (H319) Skin Sens. 1B (H317) Aquatic Chronic 3 (H412)	Eye Irrit. 2 Skin Sens. 1B Aquatic Chronic 3
Carbon black	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-	STOT RE 1 (H372)	STOT RE 1 Self-heat. 1 Self-heat. 2
Bis(2-ethylhexyl)-2-butenedioa te	14 g/kg (Rat)	14415 mg/kg (Rabbit) 15 mL/kg (Rabbit)	-	Skin Sens. 1B (H317) Aquatic Acute 3 (H402) Aquatic Chronic 1	Skin Sens. 1B Aquatic Acute 3 Aquatic Chronic 1



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				(H410)	
Benzene, ethenyl-, copolymer with 2,5-Furandione and Benzene, 1,1'-(1,1-dimethyl-3-methylene -1,3-propanediyl)bis-, rp. with Oxirane,methyl, polymer with oxirane, 2-aminopropyl methyl ether and 1,3-Propanediamine, N,N-dimethyl-, Oxirane, mono[(C10-16-alkyloxy)methyl derivs quaternised, compound with Benzoic acid		-	-	Aquatic Acute 1 (H400)	Aquatic Acute 1
Caprolactam	1210 mg/kg (Rat)	1410 μL/kg (Rabbit) 1438 mg/kg (Rabbit)	8.16 mg/L (Rat)4 h	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) Acute Tox. 4 (H312) Repr. 2 (H361) STOT RE 1 (H372)	Repr. 2 Skin Irrit. 2 Eye Irrit. 2 STOT RE 1 STOT SE 2 STOT SE 3 Acute Tox. Der. 4 Acute Tox. Oral 4
Poly[oxy(methyl-1,2-ethanediy l)], .alpha.,.alpha.',.alpha."-1,2, 3-propanetriyltris[.omega[(1- oxo-2-propenyl)oxy]-	-	-	-	Eye Irrit. 2A (H319) Skin Sens. 1 (H317)	Eye Irrit. 2A Skin Sens. 1
1,6-Hexanediol diacrylate	5 g/kg (Rat)	3600 μL/kg (Rabbit) 3600 mg/kg (Rabbit)	-	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1
2,5-Cyclohexadien-1-one, 2,6-bis(1,1-dimethylethyl)-4-(p henylmethylene)-	-	-	-	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)	-
4-Methoxyphenol	1600 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Carc. 2 (H351) Repr. 2 (H361) Aquatic Acute 2 (H401)	Acute Tox. Oral 4 Skin Irrit. 2 Eye Irrit. 2B Skin Sens. 1 Carc. 2 Repr. 2 Aquatic Acute 2

GHS/CLP Classification Note:

Acute Tox. Der. :Acute toxicity - Dermal, Acute Tox. Inh. (D/M) :Acute toxicity - Inhalation - Dusts and Mists, Acute Tox. Inh. (Gas) :Acute toxicity - Inhalation - Gases, Acute Tox. Inh. (Vap) :Acute toxicity - Inhalation - Vapours, Acute Tox. Oral :Acute toxicity - Oral, Aquatic Acute :Acute Hazardous to the aquatic environment, Aquatic Chronic :Chronic Hazardous to the aquatic environment, Asp. Tox. :Aspiration hazard, Carc. :Carcinogenicity, Expl. :Explosives, Eye Dam. :Serious eye damage, Eye Irrit. :Eye irritation, Flam. Gas :Flammable gases (including chemically unstable gases), Flam. Liq. :Flammable liquids, Flam. Solid :Flammable solids, Lact. :Effects on or via lactation, Met. Corr. :Corrosive to metals, Muta. :Germ cell mutagenicity, Org. Perox. :Organic peroxides, Ox. Gas :Oxidizing gases, Ox. Liq. :Oxidizing liquids, Ox. Sol. :Oxidizing solids, Press. Gas :Gases under pressure, Pyr. Liq. :Pyrophoric liquids, Pyr. Sol. :Pyrophoric solids, Repr. :Reproductive toxicity, Resp. Sens. :Respiratory sensitization, Self-heat. :Self-heating substances and mixtures, Self-react. :Self-reactive substances and mixtures, Skin Corr. :Skin corrosion, Skin Irrit. :Skin irritation, Skin Sens. :Skin sensitization, STOT RE :Specific target organ toxicity – Repeated exposure, STOT SE :Specific target organ toxicity – Single exposure, Water-react. :Substances and mixtures which, in contact with water emit flammable gases

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

skin corrosion/irritationNo information available



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Serious eye damage/eye irritation No information available

Respiratory or skin sensitisation No information available

Germ Cell Mutagenicity No information available

Carcinogenicity No information available

Reproductive Toxicity No information available

STOT - single exposure No information available

STOT - repeated exposure No information available

Aspiration Hazard No information available

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available

11.2.2. Other information

Other adverse effects No information available

SECTION 12: Ecological information

12.1. Toxicity

Unknown aquatic toxicity 41.6% of the mixture consists of component(s) of unknown hazards to the aquatic

environment

12.2. Persistence and degradability

Persistence and degradability No information available

12.3. Bioaccumulative potential

Bioaccumulation No information available

Chemical name	Partition coefficient
Caprolactam	-0.02
4-Methoxyphenol	1.3

12.4. Mobility in soil

Mobility in soil No information available



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12.5. Results of PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
2-Propenoic acid, phenylmethyl ester	The substance is not PBT / vPvB
2H-Azepin-2-one, 1-ethenylhexahydro-	The substance is not PBT / vPvB
Morpholine, 4-(1-oxo-2-propenyl)-	The substance is not PBT / vPvB
2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-	The substance is not PBT / vPvB
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	The substance is not PBT / vPvB
2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester	The substance is not PBT / vPvB
Trimethylolpropane polyoxyethylene triacrylate	The substance is not PBT / vPvB
Carbon black	The substance is not PBT / vPvB
Bis(2-ethylhexyl)-2-butenedioate	The substance is not PBT / vPvB
Caprolactam	The substance is not PBT / vPvB
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.o mega[(1-oxo-2-propenyl)oxy]-	The substance is not PBT / vPvB
1,6-Hexanediol diacrylate	The substance is not PBT / vPvB
2,5-Cyclohexadien-1-one, 2,6-bis(1,1-dimethylethyl)-4-(phenylmethylene)-	The substance is not PBT / vPvB
4-Methoxyphenol	The substance is not PBT / vPvB

Other information No information available

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available

12.7. Other adverse effects

Other adverse effects No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from Residues/Unused

Products

Should not be released into the environment

Disposal should be in accordance with applicable regional, national and local laws and

regulations

Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal

Other information Waste codes should be assigned by the user based on the application for which the product

was used

Store in a tightly sealed drum to prevent the spillage of the content

SECTION 14: Transport information

Containers/vessels must be leakage-free. Loading must be done to prevent containers from

falling, dropping down and being damaged Take necessary steps to prevent collapse

Use opaque containers/vessels for storage and transport

UN number UN3082
Packing group III
ERG Code 171

Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s



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IMDG

14.1 UN number UN3082

14.2 Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s

14.3Hazard Class914.4Packing groupIIIEnvironmental hazardYes14.6Special ProvisionsNoneEmS-NoF-A, S-F

14.7 Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

RID

14.1 UN number UN3082

14.2 Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s

14.3Hazard Class914.4Packing groupIII14.5Environmental hazard
Classification codeYes14.6Special ProvisionsNone

ADR

14.1 UN number UN3082

14.2 Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s

 14.3 Hazard Class
 9

 Labels
 9

 14.4 Packing group
 III

 14.5 Environmental hazard
 Yes

 14.6 Special Provisions
 None

Classification code

ICAO (air)

14.1 UN number UN3082

14.2 Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s

M6

14.3Hazard Class914.4Packing groupIII14.5Environmental hazardYes14.6Special ProvisionsNone

IATA

14.1 UN number UN3082

14.2 Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s

 14.3
 Hazard Class
 9

 14.4
 Packing group
 III

 14.5
 Environmental hazard
 Yes

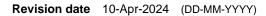
 14.6
 Special Provisions
 None

 ERG Code
 9L

SECTION 15: Regulatory information

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

Chemical name	CAS No	French RG number	Seveso III Derective
2-Propenoic acid, phenylmethyl ester	2495-35-4	-	No information available





2H-Azepin-2-one, 1-ethenylhexahydro-	2235-00-9		No information available
Morpholine, 4-(1-oxo-2-propenyl)-	5117-12-4		No information available
2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-	5888-33-5	-	No information available
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	75980-60-8	-	No information available
2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester	7328-17-8	-	No information available
Trimethylolpropane polyoxyethylene triacrylate	28961-43-5	-	No information available
Carbon black	1333-86-4	RG 16,RG 16bis	No information available
Bis(2-ethylhexyl)-2-butenedioate	142-16-5	-	No information available
Benzene, ethenyl-, copolymer with 2,5-Furandione and Benzene, 1,1'-(1,1-dimethyl-3-methylene-1,3-propane diyl)bis-, rp. with Oxirane,methyl, polymer with oxirane, 2-aminopropyl methyl ether and 1,3-Propanediamine, N,N-dimethyl-, Oxirane, mono[(C10-16-alkyloxy)methyl] derivs quaternised, compound with Benzoic acid	-	-	No information available
Caprolactam	105-60-2	-	No information available
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.al pha.',.alpha."-1,2,3-propanetriyltris[.omega[(1-oxo-2-propenyl)oxy]-	52408-84-1	-	No information available
1,6-Hexanediol diacrylate	13048-33-4	-	No information available
2,5-Cyclohexadien-1-one, 2,6-bis(1,1-dimethylethyl)-4-(phenylmethyle ne)-	7078-98-0	-	No information available
4-Methoxyphenol	150-76-5	RG 65	No information available

European Union

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

SVHC Substances Substances in candidate list (Art. 59 Reg. 1907/2006, REACH):

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

SVHC

Authorisations and/or restrictions on use: This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006

(REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC)

No. 1907/2006 (REACH), Annex XVII)

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed

H303 - May be harmful if swallowed

H311 - Toxic in contact with skin



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H312 - Harmful in contact with skin

H313 - May be harmful in contact with skin

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H351 - Suspected of causing cancer

H361 - Suspected of damaging fertility or the unborn child

H372 - Causes damage to organs through prolonged or repeated exposure if inhaled

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

H400 - Very toxic to aquatic life

H401 - Toxic to aquatic life

H402 - Harmful 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

Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	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
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and

LOLI Database (ChemADVISOR, Inc.)

sources for data

21-Jan-2020 (DD-MM-YYYY)

Revision date

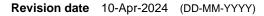
10-Apr-2024

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

Disclaimer

Issue date

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text





End of Safety Data Sheet
