SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

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

1.1. Product identifier

Product name : 3Y2606 NOIR MAT, ENCRE UVIPRIM GL

Product code : 3Y260601.

This MSDS is valid for all packaging of this product.
UFI : 18T9-W0JV-X001-FT49

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

INK

1.3. Details of the supplier of the safety data sheet

Registered company name : TIFLEX.

Address : CS 30200.01450.PONCIN.FRANCE.

Telephone : +33 (0) 4.74.37.33.33. Fax : +33 (0) 4.74.37.33.45.

qse@tiflex.fr

www.tiflex.com

1.4. Emergency telephone number : +33 (0) 1.45.42.59.59.

Association/Organisation : Centres antipoison - France.

Other emergency numbers

see section 16

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Skin sensitisation, Category 1 (Skin Sens. 1, H317).

Specific target organ toxicity (repeated exposure), Category 2 (STOT RE 2, H373).

Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS09 GHS08 GHS07

Signal Word :

WARNING

Product identifiers :

EC 235-921-9	HEXAMETHYLENE DIACRYLATE
015-189-00-5	PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE
EC 224-518-3	MORPHOLINE-4-CARBALDEHYDE

Hazard statements :

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure .
H411	Toxic to aquatic life with long lasting effects.
Precautionary statements - Prevention :	
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection.
Precautionary statements - Response :	
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice/attention if you feel unwell.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

|> 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 59 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances> = 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

| >SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

|> Composition :

Identification	Classification (EC) 1272/2008	Note	%
CAS: 94108-97-1 EC: 302-434-9 REACH: 01-2119977121-41-XXXX DI(TRIMETHYLOLPROPANE)TETRAACRYLATE	GHS07, GHS09 Wng Eye Irrit. 2, H319 Aquatic Chronic 2, H411		10 <= x % < 25
CAS: 13048-33-4 EC: 235-921-9 REACH: 01-2119484737-22-XXXX HEXAMETHYLENE DIACRYLATE	GHS07, GHS09 Wng Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Aquatic Acute 1, H400 M Acute = 1		10 <= x % < 25
EC: 982-331-9 REACH: 01-2121039738-44-XXXX REACTION PRODUCTS OF 3,5-DIMETHYLPYRAZOLE WITH OLIGOMERISATION PRODUCTS OF 1,6-DIISOCYANATOHEXANE, BIURET TYPE	GHS08 Dgr STOT RE 1, H372		2.5 <= x % < 10
CAS: 64742-95-6 EC: 265-199-0 REACH: 01-2119455851-35 SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.	GHS09, GHS08, GHS07, GHS02 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335 STOT SE 3, H336 Aquatic Chronic 2, H411 EUH066	P	2.5 <= x % < 10
CAS: 1333-86-4 EC: 215-609-9 REACH: 01-2119384822-32-XXXX CARBON BLACK		[i] [xiii]	2.5 <= x % < 10

INDEX: 015-189-00-5 CAS: 162881-26-7 EC: 423-340-5 REACH: 01-2119489401-38-XXXX PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE	GHS07 Wng Skin Sens. 1A, H317 Aquatic Chronic 4, H413		1 <= x % < 2.5
CAS: 5495-84-1 EC: 226-827-9 REACH: 01-2120769513-49-XXXX 2-ISOPROPYL-9H-THIOXANTHEN-9-ONE	GHS09, GHS08 Wng Repr. 2, H361f Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1	A B C E [ii]	1 <= x % < 2.5
CAS: 2530-83-8 EC: 219-784-2 REACH: 01-2119513212-58-XXXX [3-(2,3-EPOXYPROPOXY)PROPYL]TRIMÉTHOXYSILANE	GHS05 Dgr Eye Dam. 1, H318 Aquatic Chronic 3, H412		1 <= x % < 2.5
CAS: 4394-85-8 EC: 224-518-3 REACH: 01-2119987993-12 MORPHOLINE-4-CARBALDEHYDE	GHS07 Wng Skin Sens. 1, H317		0.1 <= x % < 1
CAS: 108-65-6 EC: 203-603-9 REACH: 01-2119475791-29-XXXX 2-METHOXY-1-METHYLETHYL ACETATE	GHS07, GHS02 Wng Flam. Liq. 3, H226 STOT SE 3, H336	[i]	0.1 <= x % < 1
CAS: 1330-20-7 EC: 215-535-7 REACH: 01-2119488216-32-xxxx XYLENE	GHS07, GHS08, GHS02 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 3, H412	C [i]	0.1 <= x % < 1
INDEX: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 REACH: 01-2119485493-29-XXXX N-BUTYL ACETATE	GHS02, GHS07 Wng Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[i]	0.1 <= x % < 1
INDEX: 601-023-00-4 CAS: 100-41-4 EC: 202-849-4 REACH: 01-2119489370-35-XXXX ETHYLBENZENE	GHS02, GHS07, GHS08 Dgr Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 Asp. Tox. 1, H304	[i]	0.1 <= x % < 1
INDEX: 601-017-00-1 CAS: 110-82-7 EC: 203-806-2 CYCLOHEXANE	GHS02, GHS08, GHS07, GHS09 Dgr Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1	[i]	0 < x % < 0.05

CAS: 79-10-7 EC: 201-177-9 REACH: 01-2119452449-31-XXXX ACRYLIC ACID	GHS07, GHS05, GHS09, GHS02 Dgr Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Acute Tox. 4, H332 STOT SE 3, H335 Aquatic Chronic 2, H411 Aquatic Acute 1, H400 M Acute = 1	D [i]	0 < x % < 0.02
INDEX: 603-001-00-X CAS: 67-56-1 EC: 200-659-6 REACH: 01-2119433307-44-XXXX METHANOL	GHS02, GHS06, GHS08 Dgr Flam. Liq. 2, H225 Acute Tox. 3, H331 Acute Tox. 3, H311 Acute Tox. 3, H301 STOT SE 1, H370	[i]	0 < x % < 0.01

|> Specific concentration limits:

Identification	Specific concentration limits	ATE
CAS: 2530-83-8 EC: 219-784-2 REACH: 01-2119513212-58-XXXX [3-(2,3-EPOXYPROPOXY)PROPYL]TRIMÉTHOXYSILANE		inhalation: ATE = 5.3 mg/l 4h (dust/mist) dermal: ATE = 4250 mg/kg BW oral: ATE = 8025 mg/kg BW

|> Nanoform

Identification	Nanoform
CAS: 1333-86-4 EC: 215-609-9 REACH: 01-2119384822-32-XXXX CARBON BLACK	Name of nanoform(s): CARBON BLACK Number based particle size distribution: d10 : 20-43 nm d50 : 30-87 nm d90 : 54-178 nm Shape and aspect ratio of particles: sphere Crystallinity: amorphe Surface functionalisation / treatment: Oui Specific surface area: 35-600 m²/g

|> Information on ingredients :

(Full text of H-phrases: see section 16)

[i] Substance for which maximum workplace exposure limits are available.

[ii] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

[xiii] Nanoform.

Note P: The carcinogen or mutagen classification does not apply because the substance contains less than 0.1 % w/w of benzene (EINECS 200-753-7).

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. description of first aid measures

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated aera is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing :

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

No data available.

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

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO2)

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO2)

5.3. Advice for firefighters

No data available.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Fire prevention :

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid skin and eye contact with this mixture.

Avoid exposure - obtain special instructions before use.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep the container tightly closed in a dry, well-ventilated place.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

| >SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

|> Occupational exposure limits :

- European Union :

CAS	VME-mg/m3 :	VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Notes :
108-65-6	275	50	550	100	Peau
1330-20-7	221	50	442	100	Peau
123-86-4	241	50	723	150	
100-41-4	442	100	884	200	Peau
110-82-7	700	200	-	-	-
79-10-7	29	10	59 (1 min)	20 (1 min)	-
67-56-1	260	200	-	-	Peau

- UK :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
1333-86-4	3.5 mg/m3	7 mg/m3			
108-65-6	50 ppm 274 mg/m3	100 ppm 548 mg/m3		Sk	
1330-20-7	50 ppm 220 mg/m3	100 ppm 441 mg/m3		Sk. BMGV	
123-86-4	150 ppm 724 mg/m3	200 ppm 966 mg/m3			
100-41-4	100 ppm 441 mg/m3	125 ppm 552 mg/m3		Sk	
110-82-7	100 ppm 350 mg/m3	300 ppm 1050 mg/m3			
67-56-1	200 ppm 266 mg/m3	250 ppm 333 mg/m3		Sk	

|> Derived no effect level (DNEL) or derived minimum effect level (DMEL):

METHANOL (CAS: 67-56-1)

|> Final use: **Workers.**

Exposure method:	Dermal contact.
Potential health effects:	Short term systemic effects.
DNEL :	20 mg/kg body weight/day

Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	20 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Short term systemic effects.
DNEL :	130 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	130 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Short term local effects.
DNEL :	130 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	130 mg of substance/m3

|> **Final use:** **Consumers.**

Exposure method:	Ingestion.
Potential health effects:	Short term systemic effects.
DNEL :	5 mg/kg body weight/day
Exposure method:	Ingestion.
Potential health effects:	Long term systemic effects.
DNEL :	5 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Short term systemic effects.
DNEL :	5 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	5 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Short term systemic effects.
DNEL :	26 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	26 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	26 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Short term local effects.
DNEL :	26 mg of substance/m3

ACRYLIC ACID (CAS: 79-10-7)

Final use: **Workers.**

Exposure method:	Dermal contact.
Potential health effects:	Short term local effects.
DNEL :	1 mg of substance/cm2
Exposure method:	Dermal contact.

Potential health effects:	Long term local effects.
DNEL :	1 mg of substance/cm2
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	30 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Short term local effects.
DNEL :	30 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	30 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Short term systemic effects.
DNEL :	30 mg of substance/m3

|> **Final use:** **Consumers.**

Exposure method:	Dermal contact.
Potential health effects:	Short term local effects.
DNEL :	1 mg of substance/cm2
Exposure method:	Dermal contact.
Potential health effects:	Long term local effects.
DNEL :	1 mg of substance/cm2
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	3.6 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Short term local effects.
DNEL :	3.6 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	3.6 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Short term systemic effects.
DNEL :	3.6 mg of substance/m3

ETHYLBENZENE (CAS: 100-41-4)

Final use: **Workers.**

Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	180 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	77 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Short term local effects.
DNEL :	293 mg of substance/m3

Final use:	**Consumers.**
Exposure method:	Ingestion.
Potential health effects:	Long term systemic effects.
DNEL :	1.6 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	15 mg of substance/m3

N-BUTYL ACETATE (CAS: 123-86-4)

Final use:	**Workers.**
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	7 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Short term systemic effects.
DNEL :	11 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Short term systemic effects.
DNEL :	600 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Short term local effects.
DNEL :	600 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	48 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	300 mg of substance/m3

Final use:	**Consumers.**
Exposure method:	Ingestion.
Potential health effects:	Long term systemic effects.
DNEL :	2 mg/kg body weight/day
Exposure method:	Ingestion.
Potential health effects:	Short term systemic effects.
DNEL :	2 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	3.4 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Short term systemic effects.
DNEL :	6 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Short term systemic effects.
DNEL :	300 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Short term local effects.
DNEL :	300 mg of substance/m3

Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	12 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	35.7 mg of substance/m3

XYLENE (CAS: 1330-20-7)

|> **Final use:** **Workers.**

Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	212 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	221 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Short term systemic effects.
DNEL :	442 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	221 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Short term local effects.
DNEL :	442 mg of substance/m3

|> **Final use:** **Consumers.**

Exposure method:	Ingestion.
Potential health effects:	Long term systemic effects.
DNEL :	12.5 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	125 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	65.3 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Short term systemic effects.
DNEL :	260 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	65.3 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Short term local effects.
DNEL :	260 mg of substance/m3

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

Final use: **Workers.**

Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.

DNEL :	796 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	275 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Short term local effects.
DNEL :	550 mg of substance/m3
Final use:	**Consumers.**
Exposure method:	Ingestion.
Potential health effects:	Long term systemic effects.
DNEL :	36 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	320 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	33 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	33 mg of substance/m3

MORPHOLINE-4-CARBALDEHYDE (CAS: 4394-85-8)

Final use:	**Workers.**
Exposure method:	Dermal contact.
Potential health effects:	Long term local effects.
DNEL :	0.293 mg of substance/cm2
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	98 mg of substance/m3
Final use:	**Consumers.**
Exposure method:	Ingestion.
Potential health effects:	Long term systemic effects.
DNEL :	8 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	8 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	29 mg of substance/m3

[3-(2,3-EPOXYPROPOXY)PROPYL]TRIMÉTHOXYSILANE (CAS: 2530-83-8)

Final use:	**Workers.**
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	10 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.

DNEL : 70.5 mg of substance/m3

|> **Final use:** **Consumers.**
Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 5 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 5 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 26400 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 17 mg of substance/m3

2-ISOPROPYL-9H-THIOXANTHEN-9-ONE (CAS: 5495-84-1)

|> **Final use:** **Workers.**
Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 2.92 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 2.06 mg of substance/m3

PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE (CAS: 162881-26-7)

|> **Final use:** **Workers.**
Exposure method: Dermal contact.
Potential health effects: Short term systemic effects.
DNEL : 3.3 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 3.3 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 21 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 21 mg of substance/m3

|> **Final use:** **Consumers.**
Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 1.5 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 1.5 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.

DNEL : 5.2 mg of substance/m3

CARBON BLACK (CAS: 1333-86-4)

Final use: **Workers.**
Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 2 mg of substance/m3

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. (CAS: 64742-95-6)

|> **Final use:** **Workers.**
Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 25 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 105 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 1300 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 840 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 1100 mg of substance/m3

|> **Final use:** **Consumers.**
Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 11 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 11 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 32 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 1200 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 180 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 640 mg of substance/m3

HEXAMETHYLENE DIACRYLATE (CAS: 13048-33-4)

|> **Final use:** **Workers.**
Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.

DNEL :	2.77 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	24.5 mg of substance/m3
Final use:	**Consumers.**
Exposure method:	Ingestion.
Potential health effects:	Long term systemic effects.
DNEL :	2.08 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	1.66 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	7.24 mg of substance/m3

DI(TRIMETHYLOLPROPANE)TETRAACRYLATE (CAS: 94108-97-1)

Final use:	**Workers.**
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	4.67 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	16.46 mg of substance/m3

|> Predicted no effect concentration (PNEC):

METHANOL (CAS: 67-56-1)

Environmental compartment:	Soil.
PNEC :	100 mg/l
Environmental compartment:	Fresh water.
PNEC :	20.8 mg/l
Environmental compartment:	Sea water.
PNEC :	2.08 mg/l
Environmental compartment:	Intermittent waste water.
PNEC :	1540 mg/l
Environmental compartment:	Fresh water sediment.
PNEC :	77
Environmental compartment:	Marine sediment.
PNEC :	7.7 mg/kg
Environmental compartment:	Waste water treatment plant.
PNEC :	100 mg/l

ACRYLIC ACID (CAS: 79-10-7)

Environmental compartment:	Soil.
PNEC :	1 mg/kg
Environmental compartment:	Fresh water.
PNEC :	0.003 mg/l
Environmental compartment:	Sea water.

PNEC : 0.0003 mg/l

Environmental compartment: Intermittent waste water.
PNEC : 0.001 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 0.024 mg/kg

Environmental compartment: Marine sediment.
PNEC : 0.002 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 0.9 mg/l

ETHYLBENZENE (CAS: 100-41-4)
Environmental compartment: Soil.
PNEC : 2.68 mg/kg

Environmental compartment: Fresh water.
PNEC : 0.1 mg/l

Environmental compartment: Sea water.
PNEC : 0.01 mg/l

Environmental compartment: Intermittent waste water.
PNEC : 0.1 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 13.7 mg/kg

Environmental compartment: Marine sediment.
PNEC : 1.37 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 9.6 mg/l

N-BUTYL ACETATE (CAS: 123-86-4)
Environmental compartment: Soil.
PNEC : 0.09 mg/kg

Environmental compartment: Fresh water.
PNEC : 0.18 mg/l

Environmental compartment: Sea water.
PNEC : 0.018 mg/l

Environmental compartment: Intermittent waste water.
PNEC : 0.36 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 0.981 mg/kg

Environmental compartment: Marine sediment.
PNEC : 0.0981 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 35.6 mg/l

XYLENE (CAS: 1330-20-7)
Environmental compartment: Soil.

PNEC : 2.31 mg/kg

Environmental compartment: Fresh water.
PNEC : 0.327 mg/l

Environmental compartment: Sea water.
PNEC : 0.327 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 12.46 mg/kg

Environmental compartment: Marine sediment.
PNEC : 12.46 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 6.58 mg/l

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)
Environmental compartment: Soil.
PNEC : 0.29 mg/kg

Environmental compartment: Fresh water.
PNEC : 0.635 mg/l

Environmental compartment: Sea water.
PNEC : 0.0635 mg/l

Environmental compartment: Intermittent waste water.
PNEC : 6.35 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 3.29 mg/kg

Environmental compartment: Marine sediment.
PNEC : 0.329 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 100 mg/l

MORPHOLINE-4-CARBALDEHYDE (CAS: 4394-85-8)
Environmental compartment: Fresh water.
PNEC : 0.5 mg/l

Environmental compartment: Sea water.
PNEC : 0.05 mg/l

Environmental compartment: Intermittent waste water.
PNEC : 5 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 1.85 mg/kg

Environmental compartment: Marine sediment.
PNEC : 0.0764 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 2000 mg/l

[3-(2,3-EPOXYPROPOXY)PROPYL]TRIMÉTHOXYSILANE (CAS: 2530-83-8)
Environmental compartment: Soil.

PNEC : 0.063 mg/kg

Environmental compartment: Fresh water.
PNEC : 0.45 mg/l

Environmental compartment: Sea water.
PNEC : 0.045 mg/l

Environmental compartment: Intermittent waste water.
PNEC : 0.45 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 1.6 mg/kg

Environmental compartment: Marine sediment.
PNEC : 0.16 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 8.2 mg/kg

2-ISOPROPYL-9H-THIOXANTHEN-9-ONE (CAS: 5495-84-1)
Environmental compartment: Soil.
PNEC : 0.024 mg/kg

Environmental compartment: Fresh water.
PNEC : 0 mg/l

Environmental compartment: Sea water.
PNEC : 0 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 0.121 mg/kg

Environmental compartment: Marine sediment.
PNEC : 0.012 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 100 mg/l

HEXAMETHYLENE DIACRYLATE (CAS: 13048-33-4)
Environmental compartment: Soil.
PNEC : 0.094 mg/kg

Environmental compartment: Fresh water.
PNEC : 0.007 mg/l

Environmental compartment: Sea water.
PNEC : 0.001 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 0.493 mg/kg

Environmental compartment: Marine sediment.
PNEC : 0.049 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 2.7 mg/l

DI(TRIMETHYLOLPROPANE)TETRAACRYLATE (CAS: 94108-97-1)
Environmental compartment: Soil.

PNEC :	0.0096 mg/kg
Environmental compartment:	Fresh water.
PNEC :	0.0012 mg/l
Environmental compartment:	Sea water.
PNEC :	0.00012 mg/l
Environmental compartment:	Intermittent waste water.
PNEC :	0.012 mg/l
Environmental compartment:	Fresh water sediment.
PNEC :	0.0484 mg/kg
Environmental compartment:	Marine sediment.
PNEC :	0.0048 mg/kg
Environmental compartment:	Waste water treatment plant.
PNEC :	100 mg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard ISO 16321.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Butyl Rubber (Isobutylene-isoprene copolymer)

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

|>SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

|> 9.1. Information on basic physical and chemical properties

Physical state

Physical state :	Viscous liquid.

|> Colour

Unspecified

|> Odour

Odour threshold :	Not stated.

|> Melting point

Melting point/melting range :	Not specified.

|> Freezing point

Freezing point / Freezing range :	Not stated.

|> Boiling point or initial boiling point and boiling range

Boiling point/boiling range :	Not specified.

|> Flammability

Flammability (solid, gas) :	Not stated.

|> Lower and upper explosion limit

Explosive properties, lower explosivity limit (%) :	Not stated.
Explosive properties, upper explosivity limit (%) :	Not stated.

Flash point

Flash Point Interval :	FP > 100°C.

Auto-ignition temperature

Self-ignition temperature :	Not specified.

|> Decomposition temperature

Decomposition point/decomposition range :	Not specified.

|> pH

pH :	Not relevant.
pH (aqueous solution) :	Not stated.

|> Kinematic viscosity

Viscosity :	Not stated.

|> Solubility

Water solubility :	Insoluble.
Fat solubility :	Not stated.

|> Partition coefficient n-octanol/water (log value)

Partition coefficient: n-octanol/water :	Not stated.

Vapour pressure

Vapour pressure (50°C) :	Below 110 kPa (1.10 bar).

Density and/or relative density

Density :	> 1

|> Relative vapour density

Vapour density :	Not stated.

|> Particle characteristics

The mixture contains one nanoform. See the characteristics of the particles that define the nanoform in Section 3.

|> 9.2. Other information

VOC (g/l) :	77.19

|> 9.2.1. Information with regard to physical hazard classes

No data available.

|> 9.2.2. Other safety characteristics

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO2)

|>SECTION 11 : TOXICOLOGICAL INFORMATION

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

11.1.1. Substances

|> a) Acute toxicity :

MORPHOLINE-4-CARBALDEHYDE (CAS: 4394-85-8)

Oral route :	LD50 > 7360 mg/kg body weight Species : Rat
Dermal route :	LD50 > 18400 mg/kg body weight Species : Rabbit OECD Guideline 402 (Acute Dermal Toxicity)

[3-(2,3-EPOXYPROPOXY)PROPYL]TRIMÉTHOXYSILANE (CAS: 2530-83-8)

Oral route :	LD50 = 8025 mg/kg body weight Species : Rat OECD Guideline 401 (Acute Oral Toxicity)
Dermal route :	LD50 = 4250 mg/kg body weight Species : Rabbit OECD Guideline 402 (Acute Dermal Toxicity)
Inhalation route (Dusts/mist) :	LC50 = 5.3 mg/l Duration of exposure : 4 h

HEXAMETHYLENE DIACRYLATE (CAS: 13048-33-4)

Oral route :	LD50 > 2000 mg/kg body weight Species : Rat
Dermal route :	LD50 > 2000 mg/kg body weight Species : Rabbit
Inhalation route (Vapours) :	LC50 > 5 mg/l Species : Rat Duration of exposure : 4 h

b) Skin corrosion/skin irritation :

No data available.

|> c) Serious damage to eyes/eye irritation :

ACRYLIC ACID (CAS: 79-10-7)
The substance produces at least in one animal effects on the cornea that are not expected to reverse or have not fully reversed within an observation period of normally 21 days.

d) Respiratory or skin sensitisation :

No data available.

e) Germ cell mutagenicity :

No data available.

f) Carcinogenicity :

No data available.

|> g) Reproductive toxicant :

No data available.

h) Specific target organ systemic toxicity - single exposure :

No data available.

i) Specific target organ systemic toxicity - repeated exposure :

[3-(2,3-EPOXYPROPOXY)PROPYL]TRIMÉTHOXYSILANE (CAS: 2530-83-8)

Oral route :	C = 500 mg/kg body weight/day Species : Rat Duration of exposure : 28 days OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

j) Aspiration hazard :

No data available.

|> 11.1.2. Mixture

11.1.2.1 Information on hazard classes

|> a) Acute toxicity :

Oral route :	No data available.
	No data available.
Dermal route :	

b) Skin corrosion/skin irritation :

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

c) Serious damage to eyes/eye irritation :

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Splashes in the eyes may cause irritation and reversible damage

d) Respiratory or skin sensitisation :

May cause an allergic reaction by skin contact.

e) Germ cell mutagenicity :

No data available.

f) Carcinogenicity :

No data available.

g) Reproductive toxicant :

No data available.

h) Specific target organ systemic toxicity - single exposure :

No data available.

i) Specific target organ systemic toxicity - repeated exposure :

May cause severe damage to organs in the event of repeated or prolonged exposure.

j) Aspiration hazard :

No data available.

11.1.2.2 Other information

Symptoms related to the physical, chemical and toxicological characteristics

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

11.2. Information on other hazards

|> Endocrine disrupting properties

The mixture does not contain any substance evaluated as an endocrine disruptor with effects on human health.

| >SECTION 12 : ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity

|> 12.1.1. Substances

MORPHOLINE-4-CARBALDEHYDE (CAS: 4394-85-8)

Fish toxicity :	LC50 > 500 mg/l Species : Leuciscus idus Duration of exposure : 96 h Other guideline
Crustacean toxicity :	EC50 > 500 mg/l Species : Daphnia magna Duration of exposure : 48 h
Algae toxicity :	ECr50 = 23880 mg/l Species : Scenedesmus subspicatus Duration of exposure : 72 h EC10 mg/l Species : Scenedesmus subspicatus Duration of exposure : 72 h
Aquatic plant toxicity :	ECx > 1 mg/l

[3-(2,3-EPOXYPROPOXY)PROPYL]TRIMÉTHOXYSILANE (CAS: 2530-83-8)

Fish toxicity :	LC50 = 55 mg/l Species : Cyprinus carpio Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 324 mg/l Species : Daphnia magna Duration of exposure : 48 h NOEC = 100 mg/l Species : Daphnia magna Duration of exposure : 21 days
Algae toxicity :	ECr50 = 350 mg/l Species : Pseudokirchnerella subcapitata Duration of exposure : 96 h NOEC = 130 mg/l Species : Pseudokirchnerella subcapitata Duration of exposure : 72 h

DI(TRIMETHYLOLPROPANE)TETRAACRYLATE (CAS: 94108-97-1)

Fish toxicity :	LC50 >= 1.2 mg/l Species : Cyprinus carpio Duration of exposure : 96 h
Crustacean toxicity :	EC50 >= 10 mg/l

Species : Daphnia magna
Duration of exposure : 48 h

ACRYLIC ACID (CAS: 79-10-7)

Fish toxicity :
0.1 < LC50 <= 1 mg/l
Factor M = 1
Duration of exposure : 96 h

0.01 < ECx <= 0.1 mg/l

0.01 < NOEC <= 0.1 mg/l

HEXAMETHYLENE DIACRYLATE (CAS: 13048-33-4)

Fish toxicity :
LC50 = 0.38 mg/l
Factor M = 1
Species : Oryzias latipes
Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)

NOEC = 0.072 mg/l
Species : Oryzias latipes
Duration of exposure : 35 days
OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test)

Crustacean toxicity :
EC50 = 2.7 mg/l
Species : Daphnia magna
Duration of exposure : 48 h
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

NOEC = 0.14 mg/l
Species : Daphnia magna
Duration of exposure : 21 days
OECD Guideline 211 (Daphnia magna Reproduction Test)

Algae toxicity :
ECr50 = 1.5 mg/l
Species : Desmodesmus subspicatus
Duration of exposure : 72 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

NOEC = 0.5 mg/l
Species : Desmodesmus subspicatus
Duration of exposure : 72 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

Aquatic plant toxicity :
Duration of exposure : 72 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

|> 12.2.1. Substances

ACRYLIC ACID (CAS: 79-10-7)

Biodegradability :
Rapidly degradable.

XYLENE (CAS: 1330-20-7)

Biodegradability :
no degradability data is available, the substance is considered as not degrading quickly.

MORPHOLINE-4-CARBALDEHYDE (CAS: 4394-85-8)

Biodegradability :
Rapidly degradable.

[3-(2,3-EPOXYPROPOXY)PROPYL]TRIMÉTHOXYSILANE (CAS: 2530-83-8)
Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

HEXAMETHYLENE DIACRYLATE (CAS: 13048-33-4)
Biodegradability : Rapidly degradable.

DI(TRIMETHYLOLPROPANE)TETRAACRYLATE (CAS: 94108-97-1)
Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

12.3. Bioaccumulative potential

12.3.1. Substances

MORPHOLINE-4-CARBALDEHYDE (CAS: 4394-85-8)
Bioaccumulation : BCF < 1.9
Species : Cyprinus carpio (Fish)
OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

|> 12.6. Endocrine disrupting properties

The mixture does not contain any substance evaluated as an endocrine disruptor with environmental effects.

12.7. Other adverse effects

No data available.

| >SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

| >SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2023 - IMDG 2022 [41-22] - ICAO/IATA 2024 [65]).

14.1. UN number or ID number

3082

14.2. UN proper shipping name

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

(hexamethylene diacrylate)

14.3. Transport hazard class(es)

- Classification :

9

14.4. Packing group

III

14.5. Environmental hazards

- Environmentally hazardous material :

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	9	M6	III	9	90	5 L	274 335 375 601	E1	3	-

Not subject to this regulation if Q <= 5 l / 5 kg (ADR 3.3.1 - DS 375)

|>

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation
	9	-	III	5 L	F-A. S-F	274 335 969	E1	Category A	-

Not subject to this regulation if Q <= 5 l / 5 kg (IMDG 3.3.1 - 2.10.2.7)

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	9	-	III	964	450 L	964	450 L	A97 A158 A197 A215	E1
	9	-	III	Y964	30 kg G	-	-	A97 A158 A197 A215	E1

Not subject to this regulation if Q <= 5 l / 5 kg (IATA 4.4.4 - DS A197)

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

Marine pollutant (IMDG 3.1.2.9):(hexamethylene diacrylate)

14.7. Maritime transport in bulk according to IMO instruments

No data available.

| >SECTION 15 : REGULATORY INFORMATION

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

|> Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2023/707.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2024/2564. (ATP 22)

Container information:

No data available.

Particular provisions :

No data available.

|> Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH): https://echa.europa.eu/substances-restricted-under-reach.

|> Authorisations agreed under Title VII of Regulation (EC) No.1907/2006 (REACH):

The mixture does not contain any substance subject to authorisation according to Annex XIV of REACH Regulation (EC) No 1907/2006: https://echa.europa.eu/fr/authorisation-list.

|> Substances that deplete the ozone layer (EC Regulation No. 1005/2009, Montreal Protocol) :

The mixture does not contain any substance posing a risk to the ozone layer.

|> Persistent organic pollutants (POP) (Regulation (EU) 2019/1021):

The mixture does not contain a persistent organic pollutant.

|> PIC Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (Rotterdam Convention):

The mixture is not subject to the Prior Informed Consent (PIC) procedure.

|> Explosives precursors :

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

15.2. Chemical safety assessment

This product contains substances for which Chemical Safety Assessments are still to be received

|>SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

|> Indicates changes from previous version

Emergency telephone numbers :

Austria : +43 1 406 43 43

Croatia : +3851 2348 342. Information available 24/7 in Croatian and English.

Czech Republic : 224 91 92 93 or 224 91 54 02

Denmark : +45 8212 1212

Estonia : nationally 16662, calling from abroad (+372) 7943 794

Finland : Open 24 hours a day - 0800 147 111 (the call is free of charge)

Iceland : 543 2222

Ireland : 01 809 2566. Information available 24/7

Italy : ROMA - CAV “Osp. Pediatrico Bambino Gesù” : 06 68593726ROMA - CAV Policlinico "Umberto I" :06-49978000ROMA - CAV Policlinico "A. Gemelli" : 06-3054343FOGGIA - Az. Osp. Univ. Foggia : 800183459NAPOLI - Az. Osp. "A. Cardarelli" : 081-5453333FIRENZE - Az. Osp. "Careggi" U.O. Tossicologia Medica : 055-7947819PAVIA - CAV Centro Nazionale di Informazione Tossicologica : 0382-24444MILANO - Osp. Niguarda Ca' Granda : 02-66101029BERGAMO - Azienda Ospedaliera Papa Giovanni XXII

Latvia : +371 67042473

Lithuania : +370 (5) 2362052 (free of charge, available 24 hours a day, seven days a week).

The Netherlands : +31 (0)88 755 8000

Norway : 22 59 13 00

Portugal : +351 800 250 250

Romania : +40 21 599 2300 (information provided in Romanian and English)

Slovakia : +421 2 5477 4166

Slovenia : 112

Spain : + 34 91 562 04 20. The information will be provided in Spanish (available 24/7)

Swiss : 145 (Swiss Toxicological Information Centre)

Sweden : 112

|> Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 :

Classification in accordance with Regulation (EC) No 1272/2008	Classification procedure
Skin Irrit. 2, H315	Calculation method.
Eye Irrit. 2, H319	Calculation method.
Skin Sens. 1, H317	Calculation method.
STOT RE 2, H373	Calculation method.
Aquatic Chronic 2, H411	Calculation method.

|> Wording of the phrases mentioned in section 3 :

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
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.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H370	Causes damage to organs .
H372	Causes damage to organs through prolonged or repeated exposure .
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.
EUH066	Repeated exposure may cause skin dryness or cracking.

|> Abbreviations and acronyms :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.
LC50 : The concentration of a test substance resulting in 50% lethality in a given period.
EC50 : The effective concentration of substance that causes 50% of the maximum response.
ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.
Ecx : The effective concentration of the substance that causes x% maximum reaction.
NOEC : The concentration with no observed effect.
REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.
ATE : Acute Toxicity Estimate
BW : Body Weight
DNEL : Derived No-Effect Level
PNEC : Predicted No-Effect Concentration
CMR: Carcinogenic, mutagenic or reprotoxic.
UFI : Unique formulation identifier.
STEL : Short-term exposure limit
TWA : Time Weighted Averages
TLV : Threshold Limit Value (exposure)
AEV : Average Exposure Value.
ADR : European agreement concerning the international carriage of dangerous goods by Road.
GHS07 : Exclamation mark
GHS08 : Health hazard
GHS09 : Environment
IATA : International Air Transport Association.
IMDG : International Maritime Dangerous Goods.
ICAO : International Civil Aviation Organisation
PBT: Persistent, bioaccumulable and toxic.
PIC: Prior Informed Consent.
POP: Persistent Organic Pollutant.
RID : Regulations concerning the International carriage of Dangerous goods by rail.
SVHC : Substances of very high concern.
vPvB : Very persistent, very bioaccumulable.
WGK : Wassergefahrdungsklasse (Water Hazard Class).
|> Modification compared to the previous version