

## SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

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

#### 1.1. Product identifier

Product name : INXFLEX UV EURO FAST YELLOW  
Product code : 101584493.

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

Ink, coating or additive for printing application. It is not suitable for any other industrial usage.

#### 1.3. Details of the supplier of the safety data sheet

Registered company name : INX International France.  
Address : 44, avenue de la Commune de Paris .91220 .Brétigny sur Orge .France.  
Telephone : +33 1 60 84 27 27. Fax : +33 1 60 84 84 13.  
info@inxintl.fr  
www.inxinternational.com/fr

#### 1.4. Emergency telephone number : +33 1 45 42 59 59.

Association/Organisation : I.N.R.S. - ORFILA - <http://www.centres-antipoison.net>.

### 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).

Reproductive toxicity, Category 1B (Repr. 1B, H360).

Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H335).

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 :



GHS07



GHS08



GHS09

Signal Word :  
DANGER

**INXFLEX UV EURO FAST YELLOW - 101584493**

**Product identifiers :**

607-249-00-X (1-METHYL-1,2-ETHANEDIYL)BIS[OXY(METHYL-2,1-ETHANEDIYL)] DIACRYLATE  
EC 239-701-3 TRIMETHYLOLPROPANE TRIACRYLATE  
EC 500-066-5 ETHOXYLATED TRIMETHYLOLPROPANE TRIACRYLATE  
EC 404-360-3 2-BENZYL-2-DIMETHYLAMINO-4-MORPHOLINOBUTYROPHENONE  
EC 629-850-6 2-PROPENOIC ACID REACTION PRODUCTS WITH PENTAERYTHRITOL  
015-189-00-5 PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE  
EC 201-816-1 2,6-DI-TERT-BUTYL-ALPHA-DIMETHYLAMINO-PARA-CRESOL

**Additional labeling :**

For professional use only.

**Hazard statements :**

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H360D May damage the unborn child.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements - Prevention :**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face 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.  
P308 + P313 IF exposed or concerned: Get medical advice/attention.  
P321 Specific treatment (see ... on this label).  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

**2.3. Other hazards**

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 57 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.

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2. Mixtures**

**Composition :**

Identification	(EC) 1272/2008	Note	%
INDEX: 607-249-00-X CAS: 42978-66-5 EC: 256-032-2 REACH: 01-2119484613-34 (1-METHYL-1,2-ETHANEDIYL)BIS[OXY(METHYL-2,1-ETHANEDIYL)] DIACRYLATE	GHS07, GHS09 Wng Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411		10 $\leq$ x % < 25

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CAS: 15625-89-5 EC: 239-701-3 REACH: 01-2119489896-11  TRIMETHYLOLPROPANE TRIACRYLATE	GHS07, GHS09 Wng Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		10 <= x % < 25
CAS: 28961-43-5 EC: 500-066-5 REACH: 01-2119489900-30-XXXX  ETHOXYLATED TRIMETHYLOLPROPANE TRIACRYLATE	GHS07 Wng Skin Sens. 1B, H317 Eye Irrit. 2, H319		2.5 <= x % < 10
CAS: 358642-08-7  OLIGOMER POLYESTER ACRYLATE	GHS07 Wng Skin Irrit. 2, H315 Eye Irrit. 2, H319		2.5 <= x % < 10
CAS: 119313-12-1 EC: 404-360-3 REACH: 01-2119485011-49  2-BENZYL-2-DIMETHYLAMINO-4-MORPHOLINOBUTYROPHENONE	GHS09, GHS08 Dgr Repr. 1B, H360D Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1	[2]	1 <= x % < 2.5
CAS: 1245638-61-2 EC: 629-850-6 REACH: 01-2119490003-49  2-PROPENOIC ACID REACTION PRODUCTS WITH PENTAERYTHRITOL	GHS07, GHS05, GHS09 Dgr Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Chronic 2, H411		1 <= x % < 2.5
CAS: 24650-42-8 EC: 246-386-6 REACH: 01-2120000336-73-XXXX  2,2-DIMETHOXY-2-PHENYLACETOPHENONE	GHS07, GHS08 Wng Acute Tox. 4, H302 STOT RE 2, H373 Aquatic Chronic 3, H412		1 <= x % < 2.5
CAS: 7473-98-5 EC: 231-272-0 REACH: 01-2119472306-39-0000  2-HYDROXY-2-METHYLPROPIOPHENONE	GHS07 Wng Acute Tox. 4, H302 Aquatic Chronic 3, H412		1 <= x % < 2.5
CAS: 90-93-7 EC: 202-025-4  4,4'-BIS(DIETHYLAMINO)BENZOPHÉNONE	GHS07, GHS09 Wng Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 M Acute = 1		0 <= x % < 1

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INDEX: 015-189-00-5 CAS: 162881-26-7 EC: 423-340-5 REACH: 01-2119886680-27-XXXX  PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHIN E OXIDE	GHS07 Wng Skin Sens. 1, H317 Aquatic Chronic 4, H413		0 <= x % < 1
CAS: 88-27-7 EC: 201-816-1 REACH: 01-2119975433-32-0001  2,6-DI-TERT-BUTYL-ALPHA-DIMETHYLAMIN NO-PARA-CRESOL	GHS07, GHS09 Wng Acute Tox. 4, H302 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		0 <= x % < 1

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

**Information on ingredients :**

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

**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 exposure by inhalation :**

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

**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 area 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.

Seek medical attention immediately, showing 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.

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**SECTION 5 : FIREFIGHTING MEASURES**

Non-flammable.

**5.1. Extinguishing media**

**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 (CO<sub>2</sub>)

**5.3. Advice for firefighters**

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

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**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 inhaling the vapors.

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

**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.

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**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.

Avoid exposure to pregnant women and warn women of child-bearing age of the possible risks

**7.1. Precautions for safe handling**

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

**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 inhaling vapors.

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Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.  
Provide vapor extraction at the emission source and also general ventilation of the premises.  
Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.  
In all cases, recover emissions at source.  
Avoid skin and eye contact with this mixture.  
Avoid exposure - obtain special instructions before use.

**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.

**Packaging**

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

**7.3. Specific end use(s)**

No data available.

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**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

No data available.

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

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

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Inhalation.  
Long term systemic effects.  
7.8 mg of substance/m3

2-HYDROXY-2-METHYLPROPIOPHENONE (CAS: 7473-98-5)

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Long term systemic effects.  
1.25 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Short term systemic effects.  
3.5 mg of substance/m3

2,2-DIMETHOXY-2-PHENYLACETOPHENONE (CAS: 24650-42-8)

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Long term systemic effects.  
0.599 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
2.11 mg of substance/m3

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**ETHOXYLATED TRIMETHYLOLPROPANE TRIACRYLATE (CAS: 28961-43-5)**

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Long term systemic effects.  
0.8 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
16.2 mg of substance/m3

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Consumers.**

Ingestion.  
Long term systemic effects.  
1.4 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Dermal contact.  
Long term systemic effects.  
0.5 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
4.9 mg of substance/m3

**TRIMETHYLOLPROPANE TRIACRYLATE (CAS: 15625-89-5)**

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Long term systemic effects.  
0.8 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
16.2 mg of substance/m3

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Consumers.**

Ingestion.  
Long term systemic effects.  
1.39 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Dermal contact.  
Long term systemic effects.  
0.48 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
4.9 mg of substance/m3

**(1-METHYL-1,2-ETHANEDIYL)BIS[OXY(METHYL-2,1-ETHANEDIYL)] DIACRYLATE (CAS: 42978-66-5)**

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**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Long term systemic effects.  
2.77 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
24.48 mg of substance/m3

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Consumers.**

Ingestion.  
Long term systemic effects.  
2.08 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Dermal contact.  
Long term systemic effects.  
1.66 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
7.24 mg of substance/m3

**Predicted no effect concentration (PNEC):**

**2-HYDROXY-2-METHYLPROPIOPHENONE (CAS: 7473-98-5)**

Environmental compartment: Soil.  
PNEC : 0.000674 mg/l

Environmental compartment: Fresh water.  
PNEC : 0.00195 mg/l

Environmental compartment: Sea water.  
PNEC : 0.000195 mg/l

Environmental compartment: Intermittent waste water.  
PNEC : 0.0195 mg/l

Environmental compartment: Fresh water sediment.  
PNEC : 0.00514 mg/kg

Environmental compartment: Marine sediment.  
PNEC : 0.000514 mg/kg

Environmental compartment: Waste water treatment plant.  
PNEC : 45

**2,2-DIMETHOXY-2-PHENYLACETOPHENONE (CAS: 24650-42-8)**

Environmental compartment: Soil.  
PNEC : 1.64 mg/kg

Environmental compartment: Fresh water.



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PNEC :	0.229 mg/l
Environmental compartment: PNEC :	Sea water. 22.9 µg/l
Environmental compartment: PNEC :	Intermittent waste water. 0.184 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 8.87 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.887 mg/kg

**ETHOXYLATED TRIMETHYLOLPROPANE TRIACRYLATE (CAS: 28961-43-5)**

Environmental compartment: PNEC :	Soil. 0.00587 mg/kg
Environmental compartment: PNEC :	Fresh water. 0.00195 mg/l
Environmental compartment: PNEC :	Sea water. 0.000195 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 0.0082 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.00082 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 10 mg/l

**TRIMETHYLOLPROPANE TRIACRYLATE (CAS: 15625-89-5)**

Environmental compartment: PNEC :	Soil. 0.0043 mg/kg
Environmental compartment: PNEC :	Fresh water. 0.00147 mg/l
Environmental compartment: PNEC :	Sea water. 0.000147 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 0.0062 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.00062 mg/kg
Environmental compartment:	Waste water treatment plant.

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PNEC : 6.25 mg/l

(1-METHYL-1,2-ETHANEDIYL)BIS[OXY(METHYL-2,1-ETHANEDIYL)] DIACRYLATE (CAS: 42978-66-5)

Environmental compartment: Soil.  
PNEC : 0.00243 mg/kg

Environmental compartment: Fresh water.  
PNEC : 0.0073 mg/l

Environmental compartment: Sea water.  
PNEC : 0.0007 mg/l

Environmental compartment: Intermittent waste water.  
PNEC : 0.73 mg/l

Environmental compartment: Fresh water sediment.  
PNEC : 0.019 mg/kg

Environmental compartment: Marine sediment.  
PNEC : 0.0019 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 EN166.

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 EN374.

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.

Recommended properties :

- Impervious gloves in accordance with standard EN374

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**- 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 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 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.

**- Respiratory protection**

Avoid breathing vapours.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- A1 (Brown)

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**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

**General information :**

Physical state : Viscous liquid.

**Important health, safety and environmental information**

pH :	Not relevant.
Boiling point/boiling range :	Not specified.
Flash point interval :	Not relevant.
Vapour pressure (50°C) :	Below 110 kPa (1.10 bar).
Density :	1.0
Water solubility :	Insoluble.
Melting point/melting range :	Not specified.
Self-ignition temperature :	Not specified.
Decomposition point/decomposition range :	Not specified.

**9.2. Other information**

No data available.

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**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**

No data available.

**10.4. Conditions to avoid**

No data available.

**10.5. Incompatible materials**

No data available.

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**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

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**SECTION 11 : TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

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.

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

Respiratory tract irritation may occur, together with symptoms such as coughing, choking and breathing difficulties.

May cause an allergic reaction by skin contact.

Presumed human reproductive toxicant.

May damage the unborn child.

**11.1.1. Substances**

**Acute toxicity :**

2,6-DI-TERT-BUTYL-ALPHA-DIMETHYLAMINO-PARA-CRESOL (CAS: 88-27-7)

Oral route : LD<sub>50</sub> = 461 mg/kg  
Species : Rat

Dermal route : LD<sub>50</sub> > 4000 mg/kg  
Species : Rat

2-HYDROXY-2-METHYLPROPIOPHENONE (CAS: 7473-98-5)

Oral route : LD<sub>50</sub> = 1694 mg/kg  
Species : Rat

Dermal route : LD<sub>50</sub> = 6929 mg/kg  
Species : Rat

**11.1.2. Mixture**

No toxicological data available for the mixture.

**Monograph(s) from the IARC (International Agency for Research on Cancer) :**

CAS 15625-89-5 : IARC Group 2B : The agent is possibly carcinogenic to humans.

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**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**

2,6-DI-TERT-BUTYL-ALPHA-DIMETHYLAMINO-PARA-CRESOL (CAS: 88-27-7)

Fish toxicity : LC<sub>50</sub> = 0.907 mg/l  
Factor M = 1  
Duration of exposure : 96 h

Crustacean toxicity : EC<sub>50</sub> = 0.335 mg/l  
Factor M = 1

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Duration of exposure : 48 h

Algae toxicity :

ECr50 = 0.297 mg/l  
Factor M = 1

**ETHOXYLATED TRIMETHYLOLPROPANE TRIACRYLATE (CAS: 28961-43-5)**

Fish toxicity :

LC50 = 1.95 mg/l  
Species : Danio rerio  
Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 70.7 mg/l  
Species : Daphnia magna  
Duration of exposure : 48 h

Algae toxicity :

ECr50 = 2.2 mg/l  
Species : Desmodesmus subspicatus  
Duration of exposure : 72 h

**4,4'-BIS(DIÉTHYLAMINO)BENZOPHÉNONE (CAS: 90-93-7)**

Fish toxicity :

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

**2-HYDROXY-2-METHYLPROPIOPHENONE (CAS: 7473-98-5)**

Fish toxicity :

LC50 = 160 mg/l  
Species : Leuciscus idus  
Duration of exposure : 48 h

Crustacean toxicity :

EC50 > 119 mg/l  
Species : Daphnia magna  
Duration of exposure : 48 h

Algae toxicity :

ECr50 = 1.95 mg/l  
Species : Desmodesmus subspicatus  
Duration of exposure : 72 h

**2,2-DIMETHOXY-2-PHENYLACETOPHENONE (CAS: 24650-42-8)**

Fish toxicity :

LC50 = 6 mg/l  
Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 26 mg/l  
Species : Daphnia magna  
Duration of exposure : 48 h

Algae toxicity :

ECr50 = 0.17 mg/l  
Duration of exposure : 72 h

**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

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**12.2. Persistence and degradability**

**12.2.1. Substances**

2,6-DI-TERT-BUTYL-ALPHA-DIMETHYLAMINO-PARA-CRESOL (CAS: 88-27-7)

Biodegradability : Non-rapidly degradable.

4,4'-BIS(DIÉTHYLAMINO)BENZOPHÉNONE (CAS: 90-93-7)

Biodegradability : Rapidly degradable.

2-HYDROXY-2-METHYLPROPIOPHENONE (CAS: 7473-98-5)

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

2,2-DIMETHOXY-2-PHENYLACETOPHENONE (CAS: 24650-42-8)

Biodegradability : Rapidly degradable.

ETHOXYLATED TRIMETHYLOLPROPANE TRIACRYLATE (CAS: 28961-43-5)

Biodegradability : Rapidly degradable.

**12.3. Bioaccumulative potential**

**12.3.1. Substances**

2,6-DI-TERT-BUTYL-ALPHA-DIMETHYLAMINO-PARA-CRESOL (CAS: 88-27-7)

Octanol/water partition coefficient : log K<sub>ow</sub> = 4.24

2-HYDROXY-2-METHYLPROPIOPHENONE (CAS: 7473-98-5)

Octanol/water partition coefficient : log K<sub>ow</sub> = 1.62

2,2-DIMETHOXY-2-PHENYLACETOPHENONE (CAS: 24650-42-8)

Octanol/water partition coefficient : log K<sub>ow</sub> = 3.42

ETHOXYLATED TRIMETHYLOLPROPANE TRIACRYLATE (CAS: 28961-43-5)

Octanol/water partition coefficient : log K<sub>ow</sub> = 2.89

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

No data available.

**12.6. Other adverse effects**

No data available.

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**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, preferably via a certified collector or company.

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

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**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 2017 - IMDG 2016 - ICAO/IATA 2017).

**14.1. UN number**

3082

**14.2. UN proper shipping name**

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

**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
	9	-	III	5 L	F-A,S-F	274 335 969	E1

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	E1
	9	-	III	Y964	30 kg G	-	-	A97 A158 A197	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.

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**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

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. 2018/669 (ATP 11)

**- Container information:**

No data available.

**Usage restrictions apply to the product : See annex XVII of EC regulation No. 1907/2006.**

For professional users only.

**- Particular provisions :**

No data available.

**- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :**

NFPA 704, Labelling: Health=2 Inflammability=1 Instability/Reactivity=1 Specific Risk=none



**15.2. Chemical safety assessment**

No data available.

**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.

**Wording of the phrases mentioned in section 3 :**

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360D	May damage 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.



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**Abbreviations :**

DNEL : Derived No-Effect Level  
PNEC : Predicted No-Effect Concentration  
CMR: Carcinogenic, mutagenic or reprotoxic.  
ADR : European agreement concerning the international carriage of dangerous goods by Road.  
IMDG : International Maritime Dangerous Goods.  
IATA : International Air Transport Association.  
ICAO : International Civil Aviation Organisation  
RID : Regulations concerning the International carriage of Dangerous goods by rail.  
WGK : Wassergefährdungsklasse (Water Hazard Class).  
GHS07 : Exclamation mark  
GHS08 : Health hazard  
GHS09 : Environment  
PBT: Persistent, bioaccumulable and toxic.  
vPvB : Very persistent, very bioaccumulable.  
SVHC : Substances of very high concern.