

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 STA EXTENDER
Product code : 101574762.

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).

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

Hazardous to the aquatic environment - Acute hazard, Category 1 (Aquatic Acute 1, H400).

Hazardous to the aquatic environment - Chronic hazard, Category 1 (Aquatic Chronic 1, H410).

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



GHS09

Signal Word :
WARNING

INXFLEX UV STA EXTENDER - 101574762

Product identifiers :

EC 239-701-3 TRIMETHYLOLPROPANE TRIACRYLATE
607-249-00-X (1-METHYL-1,2-ETHANEDIYL)BIS[OXY(METHYL-2,1-ETHANEDIYL)] DIACRYLATE
EC 500-130-2 4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH
1-CHLORO-2,3-EPOXYPROPANE, ESTERS WITH ACRYLIC ACID
607-109-00-8 HEXAMETHYLENE DIACRYLATE
015-189-00-5 PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE
EC 500-114-5 GLYCEROL OXYPROPYLE ACRYLE (OTA)

Hazard statements :

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements - Prevention :

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.
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 | % |
|---|--|------|--------------------|
| 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 | | 25 \leq x % < 50 |
| 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: 73378-73-1 EC: 630-550-2 A,A',A''-PROPANE-1,2,3-TRIYLTRIS{W-HYDR OXYPOLY[OXY(METHYLETHYLENE)]}, ACRYLATES | GHS07 Wng Eye Irrit. 2, H319 | | 10 <= x % < 25 |
| CAS: 55818-57-0 EC: 500-130-2 REACH: 01-2119490020-53 4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE, ESTERS WITH ACRYLIC ACID | GHS07 Wng Skin Sens. 1, H317 | | 10 <= x % < 25 |
| CAS: 606-28-0 EC: 210-112-3 REACH: 01-2120103325-72 2-BENZOYLBENZOIC ACID METHYL ESTER | GHS09, GHS08 Wng STOT RE 2, H373 Aquatic Chronic 2, H411 | | 2.5 <= x % < 10 |
| 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 |
| INDEX: 607-109-00-8 CAS: 13048-33-4 EC: 235-921-9 HEXAMETHYLENE DIACRYLATE | GHS07 Wng Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317 | | 0 <= x % < 1 |
| 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: 52408-84-1 EC: 500-114-5 REACH: 01-2119487948-12 GLYCEROL OXYPROPYLE ACRYLE (OTA) | GHS07 Wng Skin Sens. 1, H317 Eye Irrit. 2, H319 | | 0 <= x % < 1 |

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

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.

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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.

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 (CO₂)

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.

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.

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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.

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.

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.

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.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No data available.

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

GLYCEROL OXYPROPYLE ACRYLE (OTA) (CAS: 52408-84-1)

Final use:

Exposure method:

Potential health effects:

DNEL :

Exposure method:

Potential health effects:

DNEL :

Workers.

Dermal contact.

Long term systemic effects.

1.92 mg/kg body weight/day

Inhalation.

Long term systemic effects.

16.22 mg of substance/m3

INXFLEX UV STA EXTENDER - 101574762

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.
1.15 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

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

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-METHYLPROIOPHENONE (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

4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE, ESTERS WITH ACRYLIC ACID (CAS: 55818-57-0)

Final use:

Exposure method:
Potential health effects:
DNEL :

Workers.

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

Exposure method:
Potential health effects:
DNEL :

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

Final use:

Exposure method:
Potential health effects:
DNEL :

Consumers.

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

Exposure method:
Potential health effects:
DNEL :

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

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| | |
|---------------------------|-----------------------------|
| Exposure method: | Inhalation. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 0.29 mg of substance/m3 |

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

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 : | 24.48 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 |

TRIMETHYLOLPROPANE TRIACRYLATE (CAS: 15625-89-5)

Final use:

Workers.

| | |
|---------------------------|-----------------------------|
| Exposure method: | Dermal contact. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 0.8 mg/kg body weight/day |

| | |
|---------------------------|-----------------------------|
| Exposure method: | Inhalation. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 16.2 mg of substance/m3 |

Final use:

Consumers.

| | |
|---------------------------|-----------------------------|
| Exposure method: | Ingestion. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 1.39 mg/kg body weight/day |

| | |
|---------------------------|-----------------------------|
| Exposure method: | Dermal contact. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 0.48 mg/kg body weight/day |

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

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DNEL : 4.9 mg of substance/m3

Predicted no effect concentration (PNEC):

GLYCEROL OXYPROPYLE ACRYLE (OTA) (CAS: 52408-84-1)

Environmental compartment: Soil.
PNEC : 0.00111 mg/kg

Environmental compartment: Fresh water.
PNEC : 0.00574 mg/l

Environmental compartment: Sea water.
PNEC : 0.000574 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 0.01697 mg/kg

Environmental compartment: Marine sediment.
PNEC : 0.001697 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 10 mg/l

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

4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE, ESTERS WITH ACRYLIC ACID (CAS: 55818-57-0)

Environmental compartment: Soil.
PNEC : 7.1 mg/kg

Environmental compartment: Fresh water.

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| | |
|--------------------------------------|---|
| PNEC : | 0.1 mg/l |
| Environmental compartment: PNEC : | Sea water. 0.01 mg/l |
| Environmental compartment: PNEC : | Fresh water sediment. 35.8 mg/kg |
| Environmental compartment: PNEC : | Marine sediment. 3.58 mg/kg |
| Environmental compartment: PNEC : | Waste water treatment plant. 10 mg/l |

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

| | |
|--------------------------------------|--|
| Environmental compartment: PNEC : | Soil. 0.00243 mg/kg |
| Environmental compartment: PNEC : | Fresh water. 0.0073 mg/l |
| Environmental compartment: PNEC : | Sea water. 0.0007 mg/l |
| Environmental compartment: PNEC : | Intermittent waste water. 0.73 mg/l |
| Environmental compartment: PNEC : | Fresh water sediment. 0.019 mg/kg |
| Environmental compartment: PNEC : | Marine sediment. 0.0019 mg/kg |
| Environmental compartment: PNEC : | Waste water treatment plant. 100 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: | Marine sediment. |

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PNEC : 0.00062 mg/kg
Environmental compartment: Waste water treatment plant.
PNEC : 6.25 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

- 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 : | 1.1 - 1.2 |
| 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.

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.

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 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.

11.1.1. Substances

Acute toxicity :

GLYCEROL OXYPROPYLE ACRYLE (OTA) (CAS: 52408-84-1)

Oral route : LD50 > 2000 mg/kg

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Species : Rat

Dermal route : LD50 > 2000 mg/kg
Species : Rabbit

2-HYDROXY-2-METHYLPROPIOPHENONE (CAS: 7473-98-5)
Oral route : LD50 = 1694 mg/kg
Species : Rat

Dermal route : LD50 = 6929 mg/kg
Species : Rat

2-BENZOYLBENZOIC ACID METHYL ESTER (CAS: 606-28-0)
Oral route : LD50 >= 2000 mg/kg
Species : Rat

Dermal route : LD50 > 2000 mg/kg
Species : Rat

Respiratory or skin sensitisation :

GLYCEROL OXYPROPYL ACRYLATE (OTA) (CAS: 52408-84-1)
Guinea Pig Maximisation Test (GMPT) : Sensitiser.
Species : Guinea pig
OECD Guideline 406 (Skin Sensitisation)

4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE, ESTERS WITH ACRYLIC ACID (CAS: 55818-57-0)
Guinea Pig Maximisation Test (GMPT) : Sensitiser.
Species : Mouse
OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity :

4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE, ESTERS WITH ACRYLIC ACID (CAS: 55818-57-0)
Ames test (in vitro) : Negative.

Specific target organ systemic toxicity - repeated exposure :

2-BENZOYLBENZOIC ACID METHYL ESTER (CAS: 606-28-0)
Oral route : C = 31.25 mg/kg bodyweight/day
Species : Rat
Duration of exposure : 90 days

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

Very 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

GLYCEROL OXYPROPYLE ACRYLE (OTA) (CAS: 52408-84-1)

Fish toxicity : LC50 = 5.74 mg/l
Species : Danio rerio
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 91.4 mg/l
Species : Daphnia magna
Duration of exposure : 48 h

Algae toxicity : ECr50 = 12.2 mg/l
Species : Desmodesmus subspicatus
Duration of exposure : 72 h

2-BENZOYLBENZOIC ACID METHYL ESTER (CAS: 606-28-0)

Fish toxicity : LC50 = 9.16 mg/l
Species : Brachydanio rerio
Duration of exposure : 96 h

NOEC = 4.64 mg/l
Species : Brachydanio rerio
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 26.8 mg/l
Species : Daphnia magna
Duration of exposure : 48 h

NOEC = 15.5 mg/l
Species : Daphnia magna
Duration of exposure : 24 h

Algae toxicity : ECr50 = 29.7 mg/l
Species : Scenedesmus subspicatus
Duration of exposure : 72 h

NOEC = 8.49 mg/l
Species : Scenedesmus subspicatus
Duration of exposure : 72 h

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

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

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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

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

GLYCEROL OXYPROPYLE ACRYLE (OTA) (CAS: 52408-84-1)
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-BENZOYLBENZOIC ACID METHYL ESTER (CAS: 606-28-0)
Biodegradability : Non-rapidly degradable.

12.3. Bioaccumulative potential

12.3.1. Substances

GLYCEROL OXYPROPYLE ACRYLE (OTA) (CAS: 52408-84-1)
Octanol/water partition coefficient : log K_{ow} = 2.52
OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

2-HYDROXY-2-METHYLPROPIOPHENONE (CAS: 7473-98-5)
Octanol/water partition coefficient : log K_{ow} = 1.62

2-BENZOYLBENZOIC ACID METHYL ESTER (CAS: 606-28-0)
Octanol/water partition coefficient : log K_{ow} = 2.8

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.

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.

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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.

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)

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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.

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:

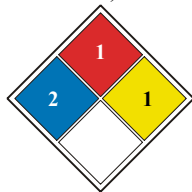
No data available.

- 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. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| 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. |

Abbreviations :

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

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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

GHS09 : Environment

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.