

PRIMAIRE ADHESION UV MAC – UVART LEMON**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 : PRIMAIRE ADHESION UV LEMON, POUR MARGUAGE A CHAUD

Product code : UVART LEMON

This MSDS is valid for all packaging of this product.

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

SCREENPRINTING INK, PAD PRINTING INK

1.3. Details of the supplier of the safety data sheet

Registered company name : ITW CER.

Address : 85 RUE CASTELLION.

01117.OYONNAX.FRANCE.

Telephone : + 33 (0)4 74 73 26 40.

www.itwids.com

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

Association/Organisation : I.N.R.S..

Other emergency numbers

Swiss emergency telephone number: 145 (Swiss Toxicological Information Centre)

>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).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

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

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

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



GHS05

Signal Word :

DANGER

Product identifiers :

EC 235-921-9

EC 629-850-6

EC 278-355-8

015-189-00-5

CAS 52408-84-1

EC 500-130-2

HEXAMETHYLENE DIACRYLATE

ACIDE 2-PROPENOIQUE, PRODUIT DE REACTION AVEC PENTAERYTHRITOL

DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE

PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE

GLYCEROLPROPOXYTRIACRYLATE

REACTION PRODUCT OF (4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE) AND 2-PROPENOIC ACID

PRIMAIRE ADHESION UV MAC – UVART LEMON

Hazard statements :

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H412	Harmful 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.
P310	Immediately call a POISON CENTER or a doctor in case of exposure
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

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: 13048-33-4 EC: 235-921-9 REACH: 01-2119484737-22-XXXX HEXAMETHYLENE DIACRYLATE	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 3, H412		25 <= x % < 50
CAS: 1317-65-3 EC: 215-279-6 LIMESTONE		[1]	2.5 <= x % < 10
CAS: 1245638-61-2 EC: 629-850-6 REACH: 01-2119490003-49-XXXX ACIDE 2-PROPENOIQUE, PRODUIT DE REACTION AVEC 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		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		2.5 <= x % < 10
CAS: 75980-60-8 EC: 278-355-8 REACH: 01-2119972295-29-XXXX DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE	GHS09, GHS07, GHS08 Wng Skin Sens. 1, H317 Repr. 2, H361f Aquatic Chronic 2, H411	[2]	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. 1, H317 Aquatic Chronic 4, H413		0 <= x % < 2.5
CAS: 52408-84-1 REACH: 01-2119487948-12-XXXX GLYCEROLPROPOXYTRIACRYLATE	GHS07 Wng Skin Sens. 1, H317 Eye Irrit. 2, H319		0 <= x % < 2.5

PRIMAIRE ADHESION UV MAC – UVART LEMON

CAS: 55818-57-0 EC: 500-130-2 REACH: 01-2119490020-53-XXXX REACTION PRODUCT OF (4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE) AND 2-PROPENOIC ACID	GHS07 Wng Skin Sens. 1, H317		0 <= x % < 2.5
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Information on ingredients :

- [1] Substance for which maximum workplace exposure limits are available.
- [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 splashes or contact with eyes :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.
Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

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.
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)

PRIMAIRE ADHESION UV MAC – UVART LEMON**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.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

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 eye contact with this mixture at all times.

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 :**

- China (GBZ 2.1, 2007) :

CAS	TWA :	STEL :	Anm :	TWA :	STEL :	Anm :
1317-65-3	8 mg/m3					

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- France (INRS - ED984 :2016) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
1317-65-3	-	10	-	-	-	-

- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
1317-65-3	4 mg/m3				

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

REACTION PRODUCT OF (4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE) AND 2-PROPENOIC 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/dayExposure method:
Potential health effects:
DNEL :Inhalation.
Long term systemic effects.
122.5 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.**Dermal contact.
Short term systemic effects.
3.3 mg/kg body weight/dayExposure method:
Potential health effects:
DNEL :Dermal contact.
Long term systemic effects.
3.3 mg/kg body weight/dayExposure method:
Potential health effects:
DNEL :Inhalation.
Short term systemic effects.
21 mg of substance/m3Exposure method:
Potential health effects:
DNEL :Inhalation.
Long term systemic effects.
21 mg of substance/m3**Final use:**Exposure method:
Potential health effects:
DNEL :**Consumers.**Ingestion.
Long term systemic effects.
1.5 mg/kg body weight/dayExposure method:
Potential health effects:
DNEL :Dermal contact.
Long term systemic effects.
1.5 mg/kg body weight/dayExposure method:
Potential health effects:
DNEL :Inhalation.
Long term systemic effects.
5.2 mg of substance/m3

DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE (CAS: 75980-60-8)

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

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

PRIMAIRE ADHESION UV MAC – UVART LEMON**Final use:**Exposure method:
Potential health effects:
DNEL :**Workers.**Dermal contact.
Short term systemic effects.
1.25 mg/kg body weight/dayExposure method:
Potential health effects:
DNEL :Dermal contact.
Long term systemic effects.
1.25 mg/kg body weight/dayExposure method:
Potential health effects:
DNEL :Inhalation.
Short term systemic effects.
3.5 mg of substance/m3Exposure method:
Potential health effects:
DNEL :Inhalation.
Long term systemic effects.
3.5 mg of substance/m3**ACIDE 2-PROPENOIQUE, PRODUIT DE REACTION AVEC PENTAERYTHRITOL (CAS: 1245638-61-2)****Final use:**Exposure method:
Potential health effects:
DNEL :**Workers.**Dermal contact.
Long term systemic effects.
1.04 mg/kg body weight/dayExposure method:
Potential health effects:
DNEL :Inhalation.
Long term systemic effects.
7.35 mg of substance/m3**HEXAMETHYLENE DIACRYLATE (CAS: 13048-33-4)**

|>

Final use:Exposure method:
Potential health effects:
DNEL :**Workers.**Dermal contact.
Long term systemic effects.
2.77 mg/kg body weight/dayExposure method:
Potential health effects:
DNEL :Inhalation.
Long term systemic effects.
24.5 mg of substance/m3**Final use:**Exposure method:
Potential health effects:
DNEL :**Consumers.**Ingestion.
Long term systemic effects.
2.08 mg/kg body weight/dayExposure method:
Potential health effects:
DNEL :Dermal contact.
Long term systemic effects.
1.66 mg/kg body weight/dayExposure method:
Potential health effects:
DNEL :Inhalation.
Long term systemic effects.
7.24 mg of substance/m3**|> Predicted no effect concentration (PNEC):****REACTION PRODUCT OF (4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE) AND 2-PROPENOIC ACID (CAS: 55818-57-0)**Environmental compartment:
PNEC :Soil.
71 mg/lEnvironmental compartment:
PNEC :Fresh water.
0.1 mg/l

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Environmental compartment:	Sea water.
PNEC :	0.01 mg/l
Environmental compartment:	Intermittent waste water.
PNEC :	1 mg/l
Environmental compartment:	Fresh water sediment.
PNEC :	35.8 mg/kg
Environmental compartment:	Marine sediment.
PNEC :	3.58 mg/kg
Environmental compartment:	Waste water treatment plant.
PNEC :	10 mg/l

DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE (CAS: 75980-60-8)

Environmental compartment:	Soil.
PNEC :	0.0557 mg/kg
Environmental compartment:	Fresh water.
PNEC :	0.00353 mg/l
Environmental compartment:	Sea water.
PNEC :	0.000353 mg/l
Environmental compartment:	Intermittent waste water.
PNEC :	0.0353 mg/l
Environmental compartment:	Fresh water sediment.
PNEC :	0.29 mg/kg
Environmental compartment:	Marine sediment.
PNEC :	0.029 mg/kg

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

Environmental compartment:	Soil.
PNEC :	0.000674 mg/kg
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 mg/l

ACIDE 2-PROPENOIQUE, PRODUIT DE REACTION AVEC PENTAERYTHRITOL (CAS: 1245638-61-2)

Environmental compartment:	Soil.
PNEC :	0.0284 mg/kg
Environmental compartment:	Fresh water.

PRIMAIRE ADHESION UV MAC – UVART LEMON

PNEC :	0.0032 mg/l
Environmental compartment: PNEC :	Sea water. 0.00032 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 0.032 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 0.1512 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.01512 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 10 mg/l
HEXAMETHYLENE DIACRYLATE (CAS: 13048-33-4)	
Environmental compartment: PNEC :	Soil. 0.00397 mg/kg
Environmental compartment: PNEC :	Fresh water. 0.0015 mg/l
Environmental compartment: PNEC :	Sea water. 0.00015 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 0.0243 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.00243 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 2.7 mg/l

8.2. Exposure controls**Personal protection measures, such as personal protective equipment**

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.

Type of gloves recommended :

- Butyl Rubber (Isobutylene-isoprene copolymer)

Recommended properties :

- Impervious gloves in accordance with standard EN374

PRIMAIRE ADHESION UV MAC – UVART LEMON**- 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.

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 stated.

Neutral.

Boiling point/boiling range : Not specified.

Flash Point Interval : FP > 100°C.

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

Density : > 1

Water solubility : Insoluble.

Melting point/melting range : Not specified.

Self-ignition temperature : Not specified.

Decomposition point/decomposition range : Not specified.

9.2. Other information

VOC (g/l) : 12.88

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**10.5. Incompatible materials****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**

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.

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.

May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days.

Serious eye damage is typified by the destruction of cornea, persistent corneal opacity and iritis.

UV GL-BC CITRON, ENCRE UVIPRIM GL-BC - 3462002

May cause an allergic reaction by skin contact.

11.1.1. Substances**Acute toxicity :**

REACTION PRODUCT OF (4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE) AND 2-PROPENOIC ACID (CAS: 55818-57-0)

Oral route : LD50 > 2000 mg/kg
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

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

Inhalation route (n/a) : LC50 > 4.9 mg/l
OECD Guideline 403 (Acute Inhalation Toxicity)

GLYCEROLPROPOXYTRIACRYLATE (CAS: 52408-84-1)

Oral route : LD50 > 5000 mg/kg
Species : Rat

DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE (CAS: 75980-60-8)

Oral route : LD50 > 5000 mg/kg
Species : Rat (recommended by the CLP)

ACIDE 2-PROPENOIQUE, PRODUIT DE REACTION AVEC PENTAERYTHRITOL (CAS: 1245638-61-2)

Oral route : LD50 = 540 mg/kg
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 > 2000 mg/kg
Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

Species : Rat

Germ cell mutagenicity :

REACTION PRODUCT OF (4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE) AND 2-PROPENOIC ACID (CAS: 55818-57-0)

Mutagenesis (in vivo) : Negative.
Species : Mouse
OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Mutagenesis (in vitro) : Negative.
Species : Mammalian Cell Line
OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

ACIDE 2-PROPENOIQUE, PRODUIT DE REACTION AVEC PENTAERYTHRITOL (CAS: 1245638-61-2)

No mutagenic effect.

Mutagenesis (in vivo) : Negative.
Species : Mouse
OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Mutagenesis (in vitro) : Negative.
Species : Mammalian Cell Line
OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

Ames test (in vitro) : Negative.

Reproductive toxicant :

ACIDE 2-PROPENOIQUE, PRODUIT DE REACTION AVEC PENTAERYTHRITOL (CAS: 1245638-61-2)

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No toxic effect for reproduction

Study on fertility :

Species : Rat
OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Study on development :

Species : Rat
OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)**Specific target organ systemic toxicity - repeated exposure :**

ACIDE 2-PROPENOIQUE, PRODUIT DE REACTION AVEC PENTAERYTHRITOL (CAS: 1245638-61-2)

Oral route :

C = 75 mg/kg bodyweight/day
Species : Rat
Duration of exposure : 28 days
OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)**11.1.2. Mixture**

No toxicological data available for the mixture.

>SECTION 12 : ECOLOGICAL INFORMATION

Harmful 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**

REACTION PRODUCT OF (4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE) AND 2-PROPENOIC ACID (CAS: 55818-57-0)

Fish toxicity :

LC50 > 100 mg/l
Species : Cyprinus carpio
Duration of exposure : 96 h
ISO 7346-1 (Determination of the Acute Lethal Toxicity of Substances to a Freshwater Fish. [Brachydanio rerio Hamilton-Buchanan (Teleostei, Cyprinidae)] - Part 1: Static method)

Crustacean toxicity :

EC50 > 16 mg/l
Species : Daphnia magna
Duration of exposure : 48 h
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity :

ECr50 = 17 mg/l
Species : Pseudokirchnerella subcapitata
Duration of exposure : 72 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

ACIDE 2-PROPENOIQUE, PRODUIT DE REACTION AVEC PENTAERYTHRITOL (CAS: 1245638-61-2)

Fish toxicity :

LC50 = 3.2 mg/l
Species : Cyprinus carpio
Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)

0,1 < NOEC <= 1 mg/l

Crustacean toxicity :

EC50 = 13 mg/l
Species : Daphnia magna
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity :

ECr50 = 33 mg/l
Species : Pseudokirchnerella subcapitata
Duration of exposure : 96 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

UV GL-BC CITRON, ENCRE UVIPRIM GL-BC - 3462002

NOEC = 10 mg/l
Species : Pseudokirchnerella subcapitata
Duration of exposure : 96 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

HEXAMETHYLENE DIACRYLATE (CAS: 13048-33-4)

Fish toxicity : LC50 > 1 mg/l
Duration of exposure : 96 h

Algae toxicity : ECr50 > 1 mg/l
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

REACTION PRODUCT OF (4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE) AND 2-PROPENOIC ACID (CAS: 55818-57-0)

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

ACIDE 2-PROPENOIQUE, PRODUIT DE REACTION AVEC PENTAERYTHRITOL (CAS: 1245638-61-2)

Biodegradability : Non-rapidly degradable.

HEXAMETHYLENE DIACRYLATE (CAS: 13048-33-4)

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

12.3. Bioaccumulative potential

12.3.1. Substances

ACIDE 2-PROPENOIQUE, PRODUIT DE REACTION AVEC PENTAERYTHRITOL (CAS: 1245638-61-2)

Octanol/water partition coefficient : log K_{ow} = 1.45
OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

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.

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

Exempt from transport classification and labelling.

14.1. UN number

-

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

-

14.4. Packing group

-

14.5. Environmental hazards

-

14.6. Special precautions for user

-

>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. 2016/1179. (ATP 9)

- Container information:

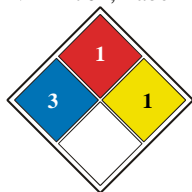
No data available.

- 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=3 Inflammability=1 Instability/Reactivity=1 Specific Risk=none

**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.

I> Indicates changes from previous version

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.
H361f	Suspected of damaging fertility.
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

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).

GHS05 : Corrosion

GHS07 : Exclamation mark

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.