



SAFETY DATA SHEET

According to 1907/2006/CE, Article 31

Date of printing : 18.12.2024

Product name: POLYMERE DE SOUDURE POUR KRYOCLIM, GIRAIR et HTA

Revision date : 01.08.2024

Version number: 27

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

1.1 Product identifier

Trade name: **POLYMERE DE SOUDURE POUR KRYOCLIM, GIRAIR et HTA (3FIXP / 3FIXB)**

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

No further relevant information available.

Application of the substance / the mixture Adhesive

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

GIRPI

Rue Robert Ancel

CS 90133

76700 HARFLEUR

Tél : 02.41.63.73.25

e-mail: tech-com.nicoll@alixaxis.com

Further information obtainable from: Service Clients Technique

1.4 Emergency telephone number:

ORFILA (INRS) : + 33 (0)1 45 42 59 59

Centres Antipoison et de Toxicovigilance

ANGERS: 02 41 48 21 21

BORDEAUX: 05 56 96 40 80

LILLE: 0800 59 59 59

LYON: 04 72 11 69 11

MARSEILLE: 04 91 75 25 25

NANCY: 03 83 22 50 50

PARIS: 01 40 05 48 48

STRASBOURG: 03 88 37 37 37

TOULOUSE: 05 61 77 74 47

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

GHS02 flame



Flam. Liq. 2 H225 Highly flammable liquid and vapour.

GHS05 corrosion



Eye Dam. 1 H318 Causes serious eye damage.

GHS07



STOT SE 3 H336 May cause drowsiness or dizziness.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

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· **Hazard pictograms**



GHS02 GHS05 GHS07

· **Signal word** Danger

· **Hazard-determining components of labelling:**

1,3-dioxolane

Butanone

· **Hazard statements**

H225 Highly flammable liquid and vapour.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.

P261 Avoid breathing vapours.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with national regulations.

· **Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.

· **Labelling of packages where the contents do not exceed 125 ml**

· **Hazard pictograms**



GHS02 GHS05 GHS07

· **Signal word** Danger

· **Hazard-determining components of labelling:**

1,3-dioxolane

Butanone

· **Hazard statements**

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P261 Avoid breathing vapours.

P501 Dispose of contents/container in accordance with national regulations.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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· Determination of endocrine-disrupting properties

78-93-3 Butanone

List II

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· **Description:** Adhesive

· **Dangerous components:**

CAS: 646-06-0 EINECS: 211-463-5 Index number: 605-017-00-2 Reg.nr.: 01-2119490744-29	1,3-dioxolane ⚠ Flam. Liq. 2, H225; ⚠ Eye Dam. 1, H318	50-100%
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg.nr.: 01-2119457290-43-XXXX	Butanone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	25-50%
CAS: 128-37-0 EINECS: 204-881-4 Reg.nr.: 01-2119565113-46 01-2119555270-46	Butylated hydroxytoluene ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥0.025-<0.25%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **General information:** No special measures required.

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.
No special measures required.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· **Suitable extinguishing agents:**

Water haze
Alcohol resistant foam
Fire-extinguishing powder

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Carbon dioxide

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **5.2 Special hazards arising from the substance or mixture**

No further relevant information available.

· **5.3 Advice for firefighters**

· **Protective equipment:** No special measures required.

· **Additional information**

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Send for recovery or disposal in suitable receptacles.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store in a cool location.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· **Storage class:** 3

· **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

78-93-3 Butanone

WEL	Short-term value: 899 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm Sk, BMGV
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DNELs

78-93-3 Butanone

Oral	Consumer, oral, longterm exposition	31 mg/kg bw/day
Dermal	Worker, dermal, longterm exposition	1161 mg/kg bw/day
	Consumer, dermal, longterm exposition	412 mg/kg bw/day
Inhalative	Worker, inhalative, longterm exposition	600 mg/m ³
	Consumer, inhalative, longterm exposition	106 mg/m ³

PNECs

78-93-3 Butanone

Oral	Secondary Poisoning	1000 mg/kg
	Fresh water	55.8 mg/l
	Fresh water sediment	284.7 mg/kg dry weight
	Marine water	55.8 mg/l
	Marine sediment	284.7 mg/kg dry weight
	Soil	22.5 mg/kg
	Sewage treatment plant	709 mg/l
	Sporadic release	55.8 mg/l

Ingredients with biological limit values:

78-93-3 Butanone

BMGV	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one
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Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

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- **Respiratory protection:**
Use suitable respiratory protective device in case of insufficient ventilation.
- **Recommended filter device for short term use:** Filter A
- **Hand protection**
Solvent resistant gloves



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**
Recommended thickness of the material: > 0,12 mm
Butyl rubber, BR
Nitrile rubber, NBR
Recommended thickness of the material: > 0,7 mm

- **Penetration time of glove material**

For the mixture of chemicals mentioned below the penetration time has to be at least 10 minutes (Permeation according to EN 374 Part 3: Level 1).

For the mixture of chemicals mentioned below the penetration time has to be at least 120 minutes (Permeation according to EN 374 Part 3: Level 4).

- **Eye/face protection**



Tightly sealed goggles

Goggles recommended during refilling

- **Body protection:** Solvent resistant protective clothing

SECTION 9: Physical and chemical properties

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

- **General Information**

- | | |
|---|---------------------|
| • Physical state | Fluid |
| • Colour: | Light orange colour |
| • Odour: | Characteristic |
| • Odour threshold: | Not determined. |
| • Melting point/freezing point: | Undetermined. |
| • Boiling point or initial boiling point and boiling range | 75 °C |
| • Flammability | Highly flammable. |
| • Lower and upper explosion limit | |
| • Lower: | 1.8 Vol % |
| • Upper: | 11.5 Vol % |
| • Flash point: | -9 °C |
| • Auto-ignition temperature: | 274 °C |

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<ul style="list-style-type: none">· Decomposition temperature:· pH· Viscosity:· Kinematic viscosity· Dynamic at 20 °C:· Solubility· water:· Partition coefficient n-octanol/water (log value)· Vapour pressure at 20 °C:· Density and/or relative density· Density at 20 °C:· Relative density· Vapour density	<p>Not determined.</p> <p>Not determined.</p> <p>Not determined.</p> <p>2500 mPas</p> <p>Not miscible or difficult to mix.</p> <p>Not determined.</p> <p>133 hPa</p> <p>1.084 g/cm³</p> <p>Not determined.</p> <p>Not determined.</p>
<ul style="list-style-type: none">· 9.2 Other information· Appearance:· Form:· Important information on protection of health and environment, and on safety.· Ignition temperature:· Explosive properties:· Solvent content:· Organic solvents:· Water:· Solids content:· Change in condition· Evaporation rate	<p>All relevant physical data were determined for the mixture. All non-determined data are not measurable or not relevant for the characterization of the mixture.</p> <p>Fluid</p> <p>Product is not selfigniting.</p> <p>Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</p> <p>26.9 %</p> <p>0.0 %</p> <p>17.9 %</p> <p>Not determined.</p>
<ul style="list-style-type: none">· Information with regard to physical hazard classes· Explosives· Flammable gases· Aerosols· Oxidising gases· Gases under pressure· Flammable liquids· Flammable solids· Self-reactive substances and mixtures· Pyrophoric liquids· Pyrophoric solids· Self-heating substances and mixtures· Substances and mixtures, which emit flammable gases in contact with water· Oxidising liquids· Oxidising solids· Organic peroxides	<p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Highly flammable liquid and vapour.</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p>

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- | | |
|---------------------------|------|
| · Corrosive to metals | Void |
| · Desensitised explosives | Void |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Danger of forming toxic pyrolysis products.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

646-06-0 1,3-dioxolane

Oral	LD50	3000 mg/kg (rat)
Dermal	LD50	8480 mg/kg (rabbit)
Inhalative	LC50/4 h	20650 mg/l (rat)

78-93-3 Butanone

Oral	LD50	>2193 mg/kg (rat)
Dermal	LD50	>8050 mg/kg (rat)

128-37-0 Butylated hydroxytoluene

Oral	LD50	890 mg/kg (rat)
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- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity**
Not applicable.
Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **Acute effects (acute toxicity, irritation and corrosivity)** Not applicable.
- **Sensitisation** Not applicable.
- **Repeated dose toxicity** Not applicable.

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· 11.2 Information on other hazards

· Endocrine disrupting properties

78-93-3 Butanone

List II

SECTION 12: Ecological information

· 12.1 Toxicity

· **Aquatic toxicity:** No further relevant information available.

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· 12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

· 12.7 Other adverse effects

· Additional ecological information:

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

· Uncleaned packaging:

· Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR/ADN, IMDG, IATA

UN1133

· 14.2 UN proper shipping name

· ADR/ADN

1133 ADHESIVES

· IMDG, IATA

ADHESIVES

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· **14.3 Transport hazard class(es)**

· **ADR/ADN**



· **Class** 3 (F1) Flammable liquids.
· **Label** 3

· **IMDG, IATA**



· **Class** 3 Flammable liquids.
· **Label** 3

· **14.4 Packing group**
· **ADR/ADN, IMDG, IATA**

III

· **14.5 Environmental hazards:**

· **Marine pollutant:** No

· **14.6 Special precautions for user** Warning: Flammable liquids.

· **Hazard identification number (Kemler code):** -

· **EMS Number:** F-E,S-D

· **Stowage Category** A

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

· **Transport/Additional information:**

· **Quantity limitations** On passenger aircraft/rail: 60 L
On cargo aircraft only: 220 L

· **ADR/ADN**

· **Limited quantities (LQ)** 5L

· **Excepted quantities (EQ)** Code: E1

Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

· **Transport category** 3

· **Tunnel restriction code** E

· **IMDG**

· **Limited quantities (LQ)** 5L

· **Excepted quantities (EQ)** Code: E1

Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

· **Remarks:** For substances with class 3 according to IMDG-Code chapter 2.3.2.2 packing group is classified in packing group III, as viscosity is in accordance

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- | | |
|--------------------------|--|
| . | with requirements (flow time $t > 100s$). |
| · UN "Model Regulation": | UN 1133 ADHESIVES, 3, III |

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Poisons Act

· Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

· Directive 2012/18/EU

- Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category P5c FLAMMABLE LIQUIDS

- Qualifying quantity (tonnes) for the application of lower-tier requirements 5000 t

- Qualifying quantity (tonnes) for the application of upper-tier requirements 50000 t

- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Regulation (EC) No 273/2004 on drug precursors

78-93-3	Butanone	3
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· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

78-93-3	Butanone	3
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- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H225 Highly flammable liquid and vapour.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.

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H410 Very toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

• **Classification according to Regulation (EC) No 1272/2008**

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Flammable liquids	Bridging principles
Serious eye damage/irritation Specific target organ toxicity (single exposure)	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

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• **Version number of previous version:** 26

• **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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