



safety for your pipeworks

# SAFETY DATA SHEET

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according to 1907/2006/EC, Article 31

Printing date: 03.07.2019  
Trade name: GIRPI HTA FUSION

Revision: 03.07.2019  
Version number: 23

## 1 / Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name: **GIRPI HTA FUSION** (HTAFUSIONP / HTAFUSIONB)

### 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 / FRANCE  
Tel.: 33(0)2 32 79 60 00  
Fax: 33(0)2 32 79 60 27  
E-mail: [contact@girpi.fr](mailto:contact@girpi.fr)

Further information obtainable from: Technical Assistance

Tel: 33(0)2 32 79 58 00

1.4 Emergency telephone number: +31 88 3235700.

Operating hours mo-fr 08:00h-17:00h (CET)

## 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.



GHS08 health hazard

Carc. 2 H351 Suspected of causing cancer.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335-H336 May cause respiratory irritation. 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 CLP regulation.

#### Hazard pictograms



GHS02



GHS07



GHS08

Signal word Danger

#### Hazard-determining components of labelling:

tetrahydrofuran

butanone



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## Hazard statements

- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H351 Suspected of causing cancer.
- H335-H336 May cause respiratory irritation. 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.
- P281 Use personal protective equipment as required.
- P370+P378 In case of fire: Use to extinguish: Water haze, Alcohol resistant foam, Fire-extinguishing powder, Carbon dioxide.
- 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



GHS07



GHS08

### Signal word Danger

### Hazard-determining components of labelling:

tetrahydrofuran  
butanone

### Hazard statements

- H351 Suspected of causing cancer.
- H335-H336 May cause respiratory irritation. 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.
- P281 Use personal protective equipment as required.
- 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.

## 3 / Composition/information on ingredients

### 3.2 Mixtures

#### Description:

Mixture of substances listed below with nonhazardous additions.  
Adhesive

Dangerous components:		
CAS: 109-99-9 EINECS: 203-726-8	tetrahydrofuran Flam. Liq. 2, H225;  Carc. 2, H351;  Eye Irrit. 2, H319; STOT SE 3, H335	50-100%
CAS: 78-93-3 EINECS: 201-159-0	butanone Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3, H336	10-25%

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



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### 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. If symptoms persist, consult a doctor.
- . **After swallowing:** If symptoms persist, consult a 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.

### 5 / Firefighting measures

#### . 5.1 Extinguishing media

#### . Suitable extinguishing agents:

- Water haze
- Alcohol resistant foam
- Fire-extinguishing powder
- 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.

### 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).
- Dispose contaminated material as waste according to item 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.

### 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.
- Open and handle receptacle with care.
- Prevent formation of aerosols.
- . **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.



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### . 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.

### 8 / Exposure controls/personal protection

. **Additional information about design of technical facilities:** No further data; see item 7.

#### . 8.1 Control parameters

. <b>Ingredients with limit values that require monitoring at the workplace:</b>	
<b>109-99-9 tetrahydrofuran</b>	
WEL	Short-term value: 300 mg/m <sup>3</sup> , 100 ppm Long-term value: 150 mg/m <sup>3</sup> , 50 ppm Sk
<b>78-93-3 butanone</b>	
WEL	Short-term value: 899 mg/m <sup>3</sup> , 300 ppm Long-term value: 600 mg/m <sup>3</sup> , 200 ppm Sk, BMGV

. <b>DNELs</b>		
<b>78-93-3 butanone</b>		
Oral	Consumer, oral, longterm exposition	31 mg/kg bw/day
Dermal	Consumer, dermal, longterm exposition	412 mg/kg bw/day
Inhalative	Consumer, inhalation, longterm exposition	106 mg/m <sup>3</sup>

. <b>PNECs</b>	
<b>78-93-3 butanone</b>	
Fresh water	55.8 mg/l
Marine water	55.8 mg/l
Soil	22.5 mg/kg

. <b>Ingredients with biological limit values:</b>	
<b>78-93-3 butanone</b>	
BMGV	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one

. **Additional information:** The lists valid during the making were used as basis.

#### . 8.2 Exposure controls

##### . 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.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.



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Avoid contact with the eyes and skin.

. **Respiratory protection:**

Suitable respiratory protective device recommended.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Use suitable respiratory protective device in case of insufficient ventilation.

. **Recommended filter device for short term use:** Filter A

. **Protection of hands:**

Solvent resistant 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**

Butyl rubber, BR

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 120 minutes (Permeation according to EN 374 Part 3: Level 4).

. **Eye protection:**



Tightly sealed goggles

Goggles recommended during refilling

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

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\* **9 / Physical and chemical properties**

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

. **General Information**

. **Appearance:**

. <b>Form:</b>	Fluid
. <b>Colour:</b>	According to product specification
. <b>Odour:</b>	Characteristic
. <b>Odour threshold:</b>	Not determined.
. <b>pH-value:</b>	Not determined.

. **Change in condition**

. <b>Melting point/freezing point:</b>	Undetermined.
. <b>Initial boiling point and boiling range:</b>	65.5 °C
. <b>Flash point:</b>	-21 °C
. <b>Flammability (solid, gas):</b>	Not applicable.
. <b>Ignition temperature:</b>	230 °C
. <b>Decomposition temperature:</b>	Not determined.
. <b>Auto-ignition temperature:</b>	Product is not selfigniting.
. <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
. <b>Explosion limits:</b>	
. <b>Lower:</b>	1.5 Vol %
. <b>Upper:</b>	12 Vol %
. <b>Vapour pressure at 20 °C:</b>	200 hPa
. <b>Density at 20 °C:</b>	1.021-1.022 g/cm <sup>3</sup>
. <b>Relative density</b>	Not determined.
. <b>Vapour density</b>	Not determined.



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. <b>Evaporation rate</b>	Not determined.
. <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
. <b>Partition coefficient: n-octanol/water:</b>	Not determined.
. <b>Viscosity:</b>	
<b>Dynamic at 20°C:</b>	1200 mPas
<b>Kinematic:</b>	Not determined.
. <b>Solvent content:</b>	
<b>Organic solvents:</b>	79.7 %
<b>Solids content:</b>	20.3 %
. <b>9.2 Other information</b>	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.

### 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.

### 11 / Toxicological information

- . **11.1 Information on toxicological effects**
- . **Acute toxicity** Based on available data, the classification criteria are not met.

. <b>LD/LC50 values relevant for classification:</b>		
<b>109-99-9 tetrahydrofuran</b>		
Oral	LD50	2500 mg/kg (rat)
<b>78-93-3 butanone</b>		
Oral	LD50	3300 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rabbit)

- . **Primary irritant effect:**
- . **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- . **Serious eye damage/irritation**  
Causes serious eye irritation.
- . **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- . **Acute effects (acute toxicity, irritation and corrosivity)** Not applicable.
- . **Sensitisation** Not applicable.
- . **Repeated dose toxicity** Not applicable.
- . **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- . **Germ cell mutagenicity** Not applicable.
- . **Carcinogenicity**  
Suspected of causing cancer.
- . **Reproductive toxicity** Based on available data, the classification criteria are not met.
- . **STOT-single exposure**  
May cause respiratory irritation. 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.

### 12 / Ecological information

- . **12.1 Toxicity**
- . **Aquatic toxicity:** No further relevant information available.
- . **12.2 Persistence and degradability** No further relevant information available.



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

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

. **Additional ecological information:**

. **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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

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

. **PBT:** Not applicable.

. **vPvB:** Not applicable.

. **12.6 Other adverse effects** No further relevant information available.

### 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.

### \* 14 / Transport information

. **14.1 UN-Number**

. **ADR/ADN, IMDG, IATA**

UN1133

. **14.2 UN proper shipping name**

. **ADR/ADN**

1133 ADHESIVES

. **IMDG, IATA**

ADHESIVES

. **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.

. **Danger code (Kemler):**

-

. **EMS Number:**

F-E,S-D

. **Stowage Category**

A

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

Not applicable.

. **Transport/Additional information:**

. **Quantity limitations**

On passenger aircraft/rail: 60 L

On cargo aircraft only: 220 L



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<b>. ADR/ADN</b>	
<b>. Limited quantities (LQ)</b>	5L
<b>. Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>. Transport category</b>	3
<b>. Tunnel restriction code</b>	E
<b>. IMDG</b>	
<b>. Limited quantities (LQ)</b>	5L
<b>. Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>. Remarks:</b>	Under certain conditions substances in Class 3 (flammable liquids) can be classified in packinggroup III. See IMDG, Part 2, Chapter 2.3, Paragraph 2.3.2.2
<b>. UN "Model Regulation":</b>	UN 1133 ADHESIVES, 3, III

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### 15 / Regulatory information

- . 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - . 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
  - . 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.
- 

### \* 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.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.

**. Department issuing SDS:** Technical Assistance      Tel: 33(0)2 32 79 58 00

#### **. Abbreviations and acronyms:**

- ADR: Accord européen sur le transport 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 (REACH)
- PNEC: Predicted No-Effect Concentration (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 Irrit. 2: Serious eye damage/eye irritation – Category 2
- Carc. 2: Carcinogenicity – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

**. \* Data compared to the previous version altered.**

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