

## Trinidad Epuré – safety notes

When dealing with Trinidad Epuré and Trinidad Epuré products the normal general safety precautions are to be taken which apply when dealing with hot bituminous binders. So for example water must not come into contact with the hot, liquid binder. This would cause splashes which would lead to burns. Work with liquid Trinidad Epuré and liquid Trinidad Epuré products are to be carried out with the appropriate protective clothing (lab gown) and wearing protective gloves and goggles. If hot liquid binder comes into contact with the skin then the damaged area must be washed with petroleum. This will cool the wound and also wash off the binder. It is therefore recommended that several 1 litre containers of petroleum are kept in the laboratory. The following data sheet based on EU directive (91/1551EEC) shows that Trinidad Epuré is not poisonous and gives tips on dealing with Trinidad Epuré

### 1.1 Details based on safety data sheet EC directive (91/1551EEC)

The following details reflect the technical knowledge and the legal requirements at the time this manual was printed. The latest version of the datasheet is available for download from the Internet page [www.trinidad-lake-asphalt.com](http://www.trinidad-lake-asphalt.com) or a copy can be requested from the manufacturer.

#### 1.1.1 Material-/preparation- and company designation

Details of the product:	Commercial name: Trinidad Epuré
Details of the manufacturer/supplier:	Carl Ungewitter TRINIDAD LAKE ASPHALT GmbH & Co. KG Bürgermeister-Smidt-Straße 56 D-28195 Bremen Telephone: +49 (0) 421/30402-41 Fax: +49 (0) 421/30402-70
Sources of further information:	information on technical application: telephone: +49 (0) 421/30402-34 emergency information/emergency phone: telephone: +49 (0) 421/30402-41

#### 1.1.2 Composition/details of components

Ingredients:	natural asphalt, consisting of 53 to 55 M.-% volatile bitumen (mix of naphthene, paraffin and aromatic hydrocarbons), 36 to 37 M.-% minerals and 9 to 10 M.-% other constituents, which cannot be assigned either to the bitumen or to the minerals parts.
dangerous constituents	not known

#### 1.1.3 Possible hazards

a) when cold:	none
b) when hot:	in the molten state at ca. 120 °C - 180 °C; burns if coming into contact with the skin.

#### 1.1.4 First aid steps

on contact with the skin	If liquid Trinidad Epuré comes into contact with the skin, immediately cool the area with water, leave on the skin and arrange for medical treatment.
on breathing in:	no danger
on contact with the eye	if liquid Trinidad Epuré comes into contact with the eye cool immediately with water and immediately arrange for medical care.
on swallowing	does not occur

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### 1.1.5 Fire fighting measures

suitable extinguishant:	dry extinguishants, foam, CO <sub>2</sub> , halon
extinguishant not suitable on grounds of safety	water
special hazard presented by the substance / product of the combustion	none

### 1.1.6 Measures to be taken when released by accident

General notes:	Avoid liquid Trinidad Epuré coming into contact with the skin or with the eye.
environmental protection measures	no danger
procedure to be used to clean / collect:	leave to cool down, collect mechanically and if necessary re-use

### 1.1.7 Handling and storage

Handling	when cold:: handle as bulk goods when liquid: protect container against ingress of water
Storage:	when cold:: store as bulk goods when liquid: store in an insulated molten matter container avoid overheating (> 300 °C).

### 1.1.8 Limiting exposure and personal protective equipment

additional notes regarding the design of technical plant	no specific measures needed
Personal protective clothing:	respiratory equipment: respiratory equipment not needed hand protection: for liquid Trinidad Epuré – protective gloves. eye protection: for liquid Trinidad Epuré – protective goggles. body protection: for liquid Trinidad Epuré – closed clothing.

### 1.1.9 Physical and technical properties

Appearance:	Form: solid, liquid at 120 °C. Colour: black, matt. Odour: none, or slight, depending on temperature.
Change of state:	Flame point: > 250 °C ignition temperature: > 350 °C
Explosion limit:	not relevant
Vapour pressure (at 20 °C):	not measurable
density (at 25 °C):	1.40 – 1.42 g/cm <sup>3</sup> to DIN 52004
Solubilty in water (at 20 °C):	indisoluable
Viscosity (180 °C):	3.000 - 3.800 cST to DIN 51366

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### 1.1.10 Stability and reactivity

conditions to be avoided:	none
substances to be avoided:	none
hazardous products of decomposition:	none, when used in the field of asphalt construction.
Thermal decomposition:	none, when used in the field of asphalt construction.

### 1.1.11 Details of toxicology

acute oral toxicity:	none
primary irritant:	eye: none skin: none

### 1.1.12 Details of Ecology

details on elimination (persistence and degradability):	practically not degradable.
other notes:	Analogous to bitumen (the main component of Trinidad Epuré), which in the sense of the WHO is not classed as a substance hazardous to water, no hazard to water management known.

### 1.1.13 Notes on disposal

recommendation of product:	Bauschuttdeponie; better, recycling in the production of asphaltic mixes.
Abfallschlüssel-Nr.:	54912 (analogous to bitumen)
recommended spoilt packaging:	non-contaminated timber product packaging which can be sent for waste site, burnt or –depending on its condition - recycled.
recommended cleaning agent:	not relevant

### 1.1.14 Notes on transport

transport by land ADR/RID:	class: free
inland waterway transport ADN/ADNR:	class: free
marine transport IMDG:	class: free
air transport IATA-DGR:	class: free, not a hazardous good according to the transport regulations.
In liquid state:	Should exceptionally the material be transported in its liquid state then the provisions as for the transport of bitumen apply.

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### 1.1.15 Regulations

designation under EC guidelines	key letter and hazard designation of the product: labelling not obligatory under the hazardous materials act labelling of components which present a hazard: none
national regulations	hazardous incident reporting ordinance: no notes on restrictions of procurement: no Technical manual (TA) air: The organic materials released during the hot processing are primarily class III, annex E of TA Air. Water hazard class: not classified

### 1.1.16 Other details

1.	Technical terms of delivery for Trinidad Asphalt.
2.	Bulletin on the use of natural asphalt in road construction.
3.	Ensured properties: With the above details which represent the current state of our knowledge and experience, our product in regard to any safety requirements and labelling in the sense described by current laws, assurances of property are not however associated with this.