

## Material Safety Data Sheet

### HEMOCLEAN® C

HUNIZ CO., LTD

Revises: 2013.04.01

#### 1. Material/preparing company name

product	HEMOCLEAN® C
Use	Disinfectant
Company	HUNIZ CO., LTD.
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Telephone	82-51-831-1030
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Homepage	www.huniz.kr
Emergency call number	82 51 831 1030

#### 2. Composition/data to components

Name of ingredients	CAS No.	%
Citric cid	77-92-9	25%
Organic acid	-	<5%
Sequesatrant	-	<5%

#### 3. Possible dangers

R 36: Irritating to eyes

#### 4. First aid measures

<b>General references</b>	Moistened clothes change
<b>After inhalation</b>	For fresh air provide. Supply with complaints of medical treatment.
<b>After skin contact</b>	During contact with the eyes thoroughly with much water rinse and physician of continuous skin provoking physician visit.
<b>After eye contact</b>	Rinse off during contact with the skin with warm water. Consult with doctor.
<b>After swallowing</b>	Supply medical treatment. Mouth rinses out and plentifully water after-drink.

#### 5. Measures for fire fighting

##### Suitable fire extinguishing agents

Product does not burn.

##### Special endangerment by the material or that Product

With fire can be set free: Carbon monoxide (CO).

##### Special one Protection equipment with that Fire fighting

Circulating air-independent respirator use.

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Date of Preparation	2008/06/13
MSDS No. of Revision	HCCDE (2)
Date of Revision	2013/04/01

**Additional references** Fire arrears and contaminated fire fighting water must be disposed according to the local official regulations

## 6. Measures when unintentional setting free

### Personal one Precautionary measures

For sufficient ventilation provide.

### Environmental protection measures

Into drains ground-waters to arrive do not leave. Surface-moderate expansion prevent (e.g. by damming or oil barriers)

### Procedure for the cleaning/admission

With liquid-binding material (e.g. Sand, universal bonding agent, take up. The taken up material dispose correctly.

## 7. Handling and storage

### References to safe handling

In the case of appropriate use no special measures necessarily.

### Requirement at stockrooms and containers

Acid-proof floor plan. Keep only in the original container.

Together with oxidizing agents do not store.

### Further data to the storage conditions

Containers keep closely closed. Containers at a well ventilated place keep

## 8. Exposition delimitation and personal protection equipment

### Additional references to the organization of technical plants

Not applicably.

**Respiratory protection** Not applicably.

**Eye protection** Eye protector.

**Body protection** None.

### General preventive measures

Contact with the eyes and the skin avoid.

**Hygiene measures** With the work do not eat, drink, smoke, cold. Wash hands before tracing and with end of work. Preventing skin protection by skin protection ointment.

### Delimitation and monitoring of the environmental exposition

Not applicably.

## 9. Physical and chemical characteristics

<b>Form</b>	Liquid.
<b>Color</b>	Colorless
<b>Smell</b>	Not characteristically.
<b>pH value</b>	0.5~1.5
<b>Boiling point</b>	Does not determine
<b>Flash point</b>	Not applicably
<b>Inflammability</b>	Not applicably
<b>Lower explosion limit</b>	Not applicably
<b>Upper explosion limit</b>	Not applicably

<b>Fire-promoting</b>	No
<b>Steam pressure [kPa]</b>	Does not determine.
<b>Density [g/ml]</b>	Not applicably.
<b>Bulk density</b>	Not applicably.
<b>Solubility in water</b>	Soluble.
<b>Distribution coefficient n-Octanol/ water</b>	Does not determine.
<b>Viscosity</b>	Not relevantly.
<b>Melting point</b>	Does not determine.
<b>Self inflammation</b>	Not applicably.
<b>Point of decomposition</b>	Does not determine

## 10. Stability and reactivity

<b>Dangerous reactions</b>	Reactions with strong alkalis and oxidizing agents.
<b>Dangerous decomposition products</b>	No dangerous decomposition product admits.

## 11. Data to the toxicology

<b>Acute oral toxicity OECD 401</b>	Does not determine.
<b>Acute dermal toxicity OECD 402</b>	Does not determine.
<b>Acute inhalational toxicity OECD 403</b>	Does not determine.
<b>Irritation at the eye OECD 405</b>	Does not determine.
<b>Irritation at the skin OECD 404</b>	Does not determine
<b>Sensitization OECD 406</b>	Does not determine.
<b>Sub acute toxicity</b>	Does not determine.
<b>Chronic toxicity</b>	Does not determine.
<b>Mutagenicity</b>	Does not determine.
<b>Reproduction toxicity</b>	Does not determine
<b>Experiences from practice</b>	None.

## 12. Data to the ecology

<b>Fish toxicity</b>	Does not determine.
<b>Behavior in purification plants</b>	Does not determine
<b>Bacteria toxicity</b>	Does not determine
<b>Biological degradableness</b>	Does not determine.
<b>AOX reference</b>	No dangerous components contain
<b>Contains prescription in accordance with</b>	contains prescription in accordance with

**connections of the 76/464/EWG**

Not applicably.

**General references**

Ecological data of the total product are not present.

**13. References to the disposal****Disposal/product**

As dangerous waste dispose.

**Disposal/uncleaned packing**

Contaminated packing cannot be reused. Cleanable packing is not to be disposed like the material.

**14. Data to transport****Classification after addr:** **Addr class:** no danger property**Designation:** emergency classified as Dangerous Goods**IATA DGR class:** emergency classified as Dangerous Goods**15. Regulations****Marking**

The product is classified and characterized after EEC guidelines

R 36: Provokes the eyes.

S 25: Contact with the eyes avoids.

**Special marking of certain preparing**

Not relevantly.

**Incident regulation, limit values consider**

Not applicably.

**Classification after TA air**

not applicably

**Product code**

Does not determine.

**VCI Lagerklasse**

Does not determine.

**16. Other data****R-sentences (data to components - 02)**

R 36: Provokes the eyes.

R 38: The skin provokes.

R 41: Danger of serious eye damage

**Sources of documentation**

(DE) Dangerous material regulation - GefStoffV 2004; 89/542/EWG, 89/686/EWG, wash and cleaning agent law - WRMG, water conservation law - WHG TRG 300, TRGS 200, TRGS220

**European Union**

91/155 (2001/58); 67/548 (2004/73), 29. ATP; 1999/45 (2001/60); 91/689 (2001/118); 89/542

**Data to transport**

Addr (2003); IMDG code (31.Amdt.); IATA DGR (2004)

**Restrictions of occupation consider**

Yes.

**VOC, 1999/13/EG**

Not applicably.