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Safety Data Sheet acc

You can also download the pdf-file. Safety Data Sheet acc, to Guideline 93/112/EC

Date: 1 December 1998, Page 1 of 4, Supersedes the Safety Data Sheet

dtd, 11 March 1998

Identification of the substance/preparation and company

Trade name: Galinstan fluid

Supplier details: Geratherm Medical AG

D-98716 Geschwenda Fahrenheitstrasse 1

Fax: 036205/98-115 / 98-116 Telefon: 036205/980

In emergency, Laboratory: Telephone: 036205/98-230

obtained from: information can be

## 2. Composition / Information on constituents

Eutectic mixture of the metal components gallium, indium and tin

#### 3. Potential hazards

Description of the hazard: Corrosive

usual regulations of industrial hygiene are adhered to, the product handling fire or explosion. does not involve any appreciable risk. Neither involves the product any risk of Special hints concerning hazards for the human and environment: So far as the

#### 4. First aid measures

General: Any general instruction are not necessary

If the product has come Wash down the skin area with water and soap. Inhalation: Inhalation does not involve any possibility of exposure.

into contact with he skin:



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If the product has come Rinse the eyes with lukewarm water, with eyelid opened.

into contact with the

swallowed up: If the product was Safety Data Sheet Keep cool. Consult a physician and present him this

Instruction for the Any specific measures to be taken are not known.

physician: Carry out a symptomatic therapy.

### 5. Fire-fighting measuring

Not applicable because the product is not inflammable

## 6. Measures to be taken in case of unintentional release

Personal precautionary Potential risk of slipping on spilled / leaked out

product.

Cleaning/picking-up feed them to recovery in plastic containers. Remove Suck or sweep up any large quantities of product and

surfactant/water solution.

any product residues from surfaces by means of

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Trade name: Galinstan fluid

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D-98716 Geschwenda

#### 7. Handling and storage

Handling: degree of purity may be impaired. TWG disclaims any fluid is handled in unpacked condition, its quality and unnecessary contact with the chemicals. When Galinstan liability for impairments of the product quality caused by Hints for safety handling: Avoid any spilling. Avoid the

closed. The plastic used as container materials are places protected from frost. If not used, keep the container Store the product in the original container in dry, cool processing operations.

Storage:

resistant (e.g. PE, PP).

## 8. Exposure control and personal protective equipment

and hygienic General protective Wash your hands after the work and before the breaks. Observe the rules of industrial hygiene.

Respiratory In emergency cases and occurring oxide smoke, use he

measures:

Hand protection: protection: permanent contact with the skin. If necessary, use a Wear rubber protective gloves to avoid a repeated or filter apparatus and filter P3.

Eye protection: the eyes, e.g. by splashing. Wear protective goggles in case of potential contact with refitting skin protective cream.

Body protection: Wear suitable work clothing if there is a risk of splashing in case of potential contact with the body.

### Physical and chemical properties

Shape: Boiling point: Odour: Colour: Appearance Change of state Safety data > 1300 Value/Range Odourless Liquid metal alloy

Self-ignition: Flash point: Fire-promoting Explosion hazard: Melting point: Inflammability: - 20 Not applicable Not applicable None Not applicable

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Density: properties: Vapour pressure: <10-8 Torr at 500 °C 6,44

g/cm3

None

solvents: Solubility in organic Insoluble Solubility in water: Insoluble

Other data pH value: Viscosity: 0,0024 Not applicable NS/m at 20°C

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Supplier details: Geratherm Medical AG Fahrenheitstrasse 1

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### 10. Stability and reactivity

Conditions to be Exothermic reactions can be expected if the product comes avoided: into contact with aluminium and water is subsequently

added.

Substances to be Chlorine, bromine, metals, light metal alloys, aluminium

oided: (amalgam formation).

Hazardous None, if the product is properly used

decomposition

products:

Other Information: The product has an alloying effect on metal surfaces such as copper, tin, lead, zinc, gold and silver jewellery, above all, if such surfaces are pure and free from oxides. If necessary, the product should be tested under the specific conditions of application to determine any reactions with materials and chemical substances.

### 11. Toxicological information

Acute toxicity: The preparation itself has not been tested.

Assessment Based on the available data materials concerning the toxicity based on the raw of the single components, the quantities which would come materials:

to effect are below the limits of acute toxicity even if a full

Experience gained in practice: Effects on the human

resorption is assumed.

So far as the product was properly handled and the generally applicable regulations of industrial hygiene were adhered to, any harmful effect on the health has not become known.

Inhalation: The risk of toxication is negligible due to the extremely low vapour pressure.

Swallowing-up: The product is discharged via the natural ways.

Skin: Some skin defatting is possible in case of continuous or repeated contact with the skin.

Eyes: Splashes got into the eyes may cause irritations. It is

advisable to wear protective goggles.

### 12. Ecological information

instructions: General toward sedimentation. The product is not miscible with water and shows a tendency

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### 13. Instruction for disposal

Recommendation: The use of the product for the purpose intended should be

given preference over the disposal. If recycling is not competent authorities are responsible to give the possible, the product should be disposed according to the locally valid laws on waste disposal and regulations (the

necessary information).

Cleansing agent recommended: 2% hydrochloric acid heated to approx. 60°C

surfactant/water solution for surfaces. Note: Fully emptied and cleaned packages can be

as valuable materials.

### 14. Transport information

Road/Rail: 1760 Corrosive liquid, n.o.s. (Gallium solution)

Cl. 8, 66 c ADR/RID

As of: September 1996

Air transport: LATA Corrosive liquid, n.o.s. (Gallium solution)

Class 8, UN 1760

Packing Group III

37th ed., 1 Jan. 1996

Marine transport: Corrosive liquids, n.o.s. (Gallium Solution)

UN 1760, page 8147, III EmS 8-12, MFAG 760

As of: September 1996

**15. Regulatory information**The above-mentioned product is no hazardous substance within the meaning of the Decree on Dangerous Substances.

16. Other data

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