

according to Regulation (EC) No 1907/2006

## **Divinol Thermosure PG**

Telefax: +49 (0) 7161 / 802-290

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

#### 1.1. Product identifier

30000 Divinol Thermosure PG

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

## Use of the substance/mixture

Heat transfer agent

# 1.3. Details of the supplier of the safety data sheet

Company name: Zeller+Gmelin GmbH & Co. KG

 Street:
 Schlossstr. 20

 Place:
 D-73054 Eislingen

 Telephone:
 +49 (0) 7161 / 802-0

e-mail: info@zeller-gmelin.de

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e-mail: produktsicherheit@zeller-gmelin.de

Internet: www.zeller-gmelin.de

Responsible Department: Produktsicherheit / Product Safety

1.4. Emergency telephone Germany: +49 (0) 7161 / 802-400

number: In England and Wales: NHS Direct: 0845 4647 or 111 In Scotland: NHS 24 -

08454 24 24 24 In Republic of Ireland: 01 809 2166

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

# 2.2. Label elements

#### Regulation (EC) No. 1272/2008

## Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

## 2.3. Other hazards

Results of PBT and vPvB assessment: not applicable.

## **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

#### **Chemical characterization**

Glycol-based mixture.

## **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice. Remove contaminated, saturated clothing immediately.

#### After inhalation

Remove casualty to fresh air and keep warm and at rest.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

## After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Let water be drunken in little sips (dilution effect). Call a physician immediately. Do NOT induce vomiting.



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#### 4.2. Most important symptoms and effects, both acute and delayed

When in doubt or if symptoms are observed, get medical advice.

## 4.3. Indication of any immediate medical attention and special treatment needed

No information available.

#### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO2).

#### Unsuitable extinguishing media

High power water jet.

# 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products: Carbon monoxide Carbon dioxide (CO2). Do not inhale explosion and combustion gases.

## 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Do not allow to enter into soil/subsoil.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8.

## 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Clean contaminated articles and floor according to the environmental legislation.

## 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

## 6.4. Reference to other sections

See protective measures under point 7 and 8.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

## Advice on safe handling

Use personal protection equipment. Do not eat, drink or smoke when using this product. Provide fresh air. Handle and open container with care. Conditions to avoid: generation/formation of aerosols.

## Advice on protection against fire and explosion

No special measures are necessary.

# 7.2. Conditions for safe storage, including any incompatibilities

# Requirements for storage rooms and vessels

Protect against: Frost. Keep away from heat. Protect against direct sunlight. Keep container tightly closed in a cool, well-ventilated place.

## 7.3. Specific end use(s)

Observe technical data sheet.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters



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#### **Exposure limits (EH40)**

Revision date: 26.09.2017

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
57-55-6	Propane-1,2-diol, total vapour and particulates	150	474		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

#### **DNEL/DMEL values**

CAS No	Substance						
DNEL type		Exposure route	Effect	Value			
57-55-6	propane-1,2-diol						
Worker DNEL, long-term		inhalation	local	10 mg/m³			
Worker DNEL, long-term		inhalation	systemic	168 mg/m³			
Consumer DNEL, long-term		inhalation	systemic	50 mg/m³			
Consumer DNEL, long-term		oral	systemic	85 mg/kg bw/day			
Consumer DNEL, long-term		inhalation	local	10 mg/m³			
Consumer DNEL, long-term		dermal	systemic	213 mg/kg bw/day			

#### **PNEC values**

CAS No	Substance		
Environmental compartment		Value	
57-55-6	propane-1,2-diol		
Freshwater		260 mg/l	
Marine water		26 mg/l	
Freshwater sediment		572 mg/l	
Marine sediment		57,2 mg/l	
Soil		50 mg/l	

## 8.2. Exposure controls

## Appropriate engineering controls

See chapter 7. No additional measures necessary.

## Protective and hygiene measures

When using do not eat, drink, smoke, sniff.

## Eye/face protection

Eye glasses with side protection.

# Hand protection

Wear suitable gloves. Recommended glove articles: DIN EN 374. Suitable material: NBR (Nitrile rubber). Breakthrough time (maximum wearing time): > 480 min (Thickness of the glove material: 0.4 mm). Breakthrough times and swelling properties of the material must be taken into consideration. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

## Skin protection

Protective clothing.

## **Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required. When splashes or fine mist form, a permitted breathing apparatus suitable for these purposes must be used. Suitable respiratory protection apparatus: Filtering Half-face mask (DIN EN 149), e.g. FFA P / FFP3.

## **Environmental exposure controls**

Do not allow to enter into surface water or drains.



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## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state: liquid Colour: blue

Odour: characteristic

**Test method** 

pH-Value: 8,5 DIN 51369

Changes in the physical state

Melting point: not determined Initial boiling point and boiling range: not determined

Pour point: <-51 °C DIN ISO 3016

Flash point: not applicable

Lower explosion limits: 2,6 vol. %

Upper explosion limits: 12,6 vol. %

Ignition temperature: not determined

Decomposition temperature: No information available.

Vapour pressure: not determined

Density (at 20 °C): 1,04 g/cm³ DIN EN ISO 12185

Water solubility: very soluble
Partition coefficient: not determined
Viscosity / dynamic: not determined

Viscosity / kinematic: 21,5 mm²/s ASTM D 7042

(at 40 °C)

Flow time: not determined Vapour density: not determined Evaporation rate: not determined

## 9.2. Other information

No information available.

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No information available.

# 10.2. Chemical stability

No information available.

## 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

## 10.4. Conditions to avoid

Heat.

#### 10.5. Incompatible materials

No information available.

## 10.6. Hazardous decomposition products

No information available.

## **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

## **Acute toxicity**

Based on available data, the classification criteria are not met.



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#### Irritation and corrosivity

Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

## STOT-single exposure

Based on available data, the classification criteria are not met.

#### 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.

#### **Practical experience**

#### Other observations

Keeping to the general worker's protection rules and the industrial hygienics, there is no risk in handling this product through the personnel.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

There are no data available on the mixture itself.

#### 12.2. Persistence and degradability

There are no data available on the mixture itself.

## 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

## 12.4. Mobility in soil

No data available

# 12.5. Results of PBT and vPvB assessment

No data available

# 12.6. Other adverse effects

No data available

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

## Advice on disposal

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

#### Waste disposal number of waste from residues/unused products

140603 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (EXCEPT 07 AND 08);

waste organic solvents, refrigerants and foam/aerosol propellants; other solvents and solvent

mixtures; hazardous waste

# Contaminated packaging

Non-contaminated packages may be recycled. Consult the appropriate local waste disposal expert about waste disposal.

# **SECTION 14: Transport information**

# Land transport (ADR/RID)

14.1. UN number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

Marine transport (IMDG)



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14.1. UN number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

Marine pollutant:

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No data available

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

No data available

## **SECTION 15: Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**EU** regulatory information

2010/75/EU (VOC): 93,1 % (977,4 g/l)

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## **SECTION 16: Other information**

## Changes

This data sheet contains changes from the previous version in section(s): 2,3,4,5,6,7,8,9,10,11,12,13,14,15.

#### Abbreviations and acronyms

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

RID: Règlement concernant le transport international ferroviaire des marchandises dangereuses (Regulations concerning the International Carriage of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

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

DNEL/DMEL: Derived No-Effect Level / Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration WEL (UK): Workplace Exposure Limits TWA (EC): Time-Weighted Average STEL (EC): Short Term Exposure Limit

ATE: Acute Toxicity Estimate

LD50: Lethal Dose, 50% (median lethal dose)

LC50: Lethal Concentration, 50% (median lethal concentration)

EC50: half maximal Effective Concentration ErC50: EC50 in terms of reduction of growth rate

VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe

## Relevant H and EUH statements (number and full text)

EUH210 Safety data sheet available on request.

## **Further Information**

Safety Data Sheet according to COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending



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Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)