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

1.1. Product identifier

DW Therm (heat transfer fluid)

Further trade names

DW-Therm does not require a safety data sheet in accordance with Article 31 of REACH Regulation, the present information is for general information only.

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

Use of the substance/mixture

Heat transfer fluid for industrial use with the Unistat in a hydraulically sealed system

1.3. Details of the supplier of the safety data sheet

Company name:	DWS Dr. Wilharm Synthesetechnik	
Street:	Trentiner Ring 30	
Place:	D-86356 Neusaess	
Telephone:	0821 4504230	Telefax:0821 45042317
e-mail:	info@dws-synthese.de	
Contact person:	Dr. Thomas Wilharm	
Internet:	www.dws-synthese.de	
1.4. Emergency telephone	GIZ-Nord, Göttingen, Germany +49 551 19240	
in complete mi		

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

This substance is not classified as hazardous in accordance with GB CLP Regulation.

2.2. Label elements

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Hazardous components

CAS No	Chemical name		Quantity	
	EC No	Index No	REACH No	
	GHS Classification			
	Alkoxy Silanes		99,9 %	

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air.

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After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Let water be drunken in little sips (dilution effect). Do NOT induce vomiting.

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

not known

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

Treat symptomatically. not known

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up

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

Other information

Absorb with liquid-binding material (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

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations.

Advice on protection against fire and explosion

A static inert gas blanket can used on the expansion vessel (s) of the Unistat. Above a working temperature of 170°C an inert gas blanket must be used.

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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Store in a dry place.

Hints on joint storage

not known

7.3. Specific end use(s)

Heat transfer fluid for industrial use with the Unistat in a hydraulically sealed system

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Protective and hygiene measures

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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.

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Colour: Odour:	liquid colourless characteristic				
	Characteristic			Test method	
pH-Value:		not dete	ermined		
Changes in the physical state					
Melting point/freezing point:			-90 °C	DIN 53736	
Boiling point or initial boiling point and boiling range:			236 °C	OECD 103	
Flash point:			101 °C	DIN EN ISO 2719	
Flammability Solid/liquid:			plicable plicable		
Explosive properties The product is not: Explosive.					
Lower explosion limits:		not dete	ermined		
Upper explosion limits:		not dete	ermined		
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Auto-ignition temperature:	265 °C	2	
Decomposition temperature:	not determined		
Oxidizing properties The product is not: oxidising.			
Vapour pressure:	not determined		
Density (at 20 °C):	0,879 g/cm³	DIN 53420	
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.		
Solubility in other solvents not determined			
Partition coefficient n-octanol/water:	not determined		
Viscosity / kinematic: (at 40 °C)	1,57 mm²/s	DIN EN ISO 3104	
Relative vapour density:	not determined		
Evaporation rate:	not determined		
9.2. Other information			
Solid content:	not determined		
conductivity : 0,003 µS/cm			
SECTION 10: Stability and reactivity			
10.2. Chemical stability			
Do not mix with acids.			
10.3. Possibility of hazardous reactions			
not known			
10.4. Conditions to avoid moisture.			
<u>10.5. Incompatible materials</u> Aluminium. non-ferrous metal			
SECTION 11: Toxicological information			
-			
11.1. Information on hazard classes as defin			
Toxicocinetics, metabolism and distribut not known			
Acute toxicity not known			
Sensitising effects not known			
Further information The substance is classified as not haza	rdous according to regulation (EC) No 1272/2008 [0	CLP].	
SECTION 12: Ecological information			

12.1. Toxicity

The product is not: Ecotoxic.

12.2. Persistence and degradability

The product has not been tested.

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12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

The product has not been tested.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

060899 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the MFSU of silicon and silicon derivatives; wastes not otherwise specified

List of Wastes Code - used product

060899 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the MFSU of silicon and silicon derivatives; wastes not otherwise specified

List of Wastes Code - contaminated packaging

150106 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

• • •	
<u>14.1. UN number:</u>	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.
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	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)	
<u>14.1. UN number:</u>	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.

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Air transport (ICAO-TI/IATA-DGR)		
	No demonstration and in course of this transmust requilation	
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.	
14.6. Special precautions for user		
not known		
14.7. Maritime transport in bulk according		
No dangerous good in sense of this t	ransport regulation.	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental reg	ulations/legislation specific for the substance or mixture	
EU regulatory information		
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)	
Additional information		
not relevant		
National regulatory information		
Water hazard class (D):	1 - slightly hazardous to water	
15.2. Chemical safety assessment		
For this substance a chemical safety	assessment has not been carried out.	
SECTION 16: Other information		
Abbreviations and acronyms		
CLP: Classification, labelling and Pag	skaging	
REACH: Registration, Evaluation and		
0	f Classification, Labelling and Packaging of Chemicals	
UN: United Nations		
CAS: Chemical Abstracts Service		
DNEL: Derived No Effect Level		
DMEL: Derived Minimal Effect Level		
PNEC: Predicted No Effect Concentr	ation	
ATE: Acute toxicity estimate		
LC50: Lethal concentration, 50%		
LD50: Lethal dose, 50%		
LL50: Lethal loading, 50% EL50: Effect loading, 50%		
EC50: Effective Concentration 50%		
ErC50: Effective Concentration 50%,	growth rate	
NOEC: No Observed Effect Concent		
BCF: Bio-concentration factor		
PBT: persistent, bioaccumulative, tox	üc	
vPvB: very persistent, very bioaccum		
	ort des marchandises dangereuses par Route	
, , , ,	e International Carriage of Dangerous Goods by Road)	
	rnational carriage of dangerous goods by rail	
	ng the International Carriage of Dangerous Goods by Inland Waterways	
(Accord europeen relatif au transport	international des marchandises dangereuses par voies de navigation	
intérieures) IMDG: International Maritime Code fo	n Dangerous Goods	

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EmS: Emergency Schedules MFAG: Medical First Aid Guide IATA: International Air Transport Association ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.