

according to Regulation (EC) No 1907/2006

Revision date: 27.02.2023

Divinol Multitherm 2

Article No.: 29880

Page 1 of 9

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

1.1. Product identifier

29880 Divinol Multitherm 2

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

Use of the substance/mixture

Grease

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	Telefax: +49 (0) 7161 / 802-290
E-mail:	info@zeller-gmelin.de	
Contact person:	Thorsten Grönig	Telephone: +49 (0) 7161 / 802-268
E-mail:	produktsicherheit@zeller-gmelin.de	
Internet:	www.zeller-gmelin.de	
Responsible Department:	Produktsicherheit / Product Safety	
1.4. Emergency telephone	GBK/Infotrac ID 103334 international: (001) 352 323 3500

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word:

Pictograms:

Warning



Hazard statements

H319

Causes serious eye irritation.

Precautionary statements

P102	Keep out of reach of children.
P280	Wear eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

No further relevant information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mineral oil-based mixture. Mineral oil with DMSO extract < 3 % as measured by IP 346.

according to Regulation (EC) No 1907/2006

Revision date:	Divinol Multitherm 2	
27.02.2023	Article No.: 29880	Page 2 of 9

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No	1272/2008)		
	zinc carboxylate			1 - < 2.5 %
	Aquatic Chronic 3; H412			
1335202-81- 7	335202-81- benzenesulfonic acid, C10-13-alkyl derivatives, calcium salt			1 - < 2.5 %
	932-231-6		01-2119560592-37	
	Skin Irrit. 2, Eye Dam. 1, Aquatic C	hronic 3; H315 H318 H412		
68411-46-1	benzenamine, N-phenyl-, reaction	products with 2,4,4-trimethylpentene		0.3 - < 1 %
	270-128-1		01-2119491299-23	
	Repr. 2, Aquatic Chronic 3; H361f H412			
	phosphoric acid ester/amine salt			0.3 - < 1 %
	Skin Irrit. 2, Aquatic Acute 1, Aquatic Chronic 3; H315 H400 H412			

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

Specific Conc. Limits, M-factors and ATE				
CAS No	EC No Chemical name		Quantity	
	Specific Conc. Limits, M-factors and ATE			
	zinc carboxylate		1 - < 2.5 %	
	dermal: LD50 =	= 2500 mg/kg; oral: LD50 = > 5000 mg/kg		
		phosphoric acid ester/amine salt	0.3 - < 1 %	
	dermal: LD50 =	= 2500 mg/kg; oral: LD50 = > 5000 mg/kg		

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 but breathing normally, 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.

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

Full water jet.



according to Regulation (EC) No 1907/2006

Revision date:	Divinol Multitherm 2	
27.02.2023	Article No.: 29880	Page 3 of 9

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

General advice

Protective measures: see section 7 + 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

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

Protective measures: see section 7 + 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.

Advice on general occupational hygiene

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

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Protect against: Frost. Keep away from heat. Protect from 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

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm ³	Category	Origin
57-55-6	Propane-1,2-diol, total (vapour and particulates)	150	470		TWA (8 h)	

according to Regulation (EC) No 1907/2006

Revision date:	Divinol Multitherm 2	
27.02.2023	Article No.: 29880	Page 4 of 9

DNEL/DMEL values

CAS No	AS No Substance			
DNEL type		Exposure route	Effect	Value
57-55-6	propane-1,2-diol			
Worker DNEL,	long-term	inhalation	local	10 mg/m ³
Worker DNEL,	long-term	inhalation	systemic	168 mg/m³
Consumer DN	EL, long-term	inhalation	systemic	50 mg/m³
Consumer DN	EL, long-term	oral	systemic	85 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	local	10 mg/m ³
Consumer DN	EL, long-term	dermal	systemic	213 mg/kg bw/day
68411-46-1	benzenamine, N-phenyl-, reaction products	with 2,4,4-trimethylpentene		
Worker DNEL,	long-term	dermal	systemic	0,62 mg/kg bw/day
Worker DNEL,	long-term	inhalation	systemic	4,37 mg/m ³
Consumer DN	EL, long-term	oral	systemic	0,31 mg/kg bw/day
Consumer DN	EL, long-term	dermal	systemic	0,31 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	1,09 mg/m ³
	phosphoric acid ester/amine salt			•
Worker DNEL,	long-term	dermal	systemic	0,0156 mg/kg bw/day
Worker DNEL,	long-term	inhalation	systemic	0,0548 mg/m³
Consumer DN	EL, long-term	dermal	systemic	0,0056 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	0,0097 mg/m ³
Consumer DN	EL, long-term	oral	systemic	0,0056 mg/kg bw/day

PNEC values

CAS No	AS No Substance		
Environment	al compartment	Value	
57-55-6	propane-1,2-diol		
Freshwater		260 mg/l	
Marine water		26 mg/l	
Freshwater s	ediment	572 mg/l	
Marine sedin	nent	57,2 mg/l	
Soil		50 mg/l	
68411-46-1 benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene			
Freshwater		0,051 mg/l	
Marine water		0,0051 mg/l	
Freshwater s	ediment	9320 mg/kg	
Marine sedin	nent	932 mg/kg	
Micro-organia	sms in sewage treatment plants (STP)	1 mg/l	
Soil		1860 mg/kg	
	phosphoric acid ester/amine salt		
Freshwater s	ediment	0,0767 mg/kg	
Marine sediment		0,00776 mg/kg	
Micro-organi	sms in sewage treatment plants (STP)	3,26 mg/kg	
Soil	Soil 0,0152 mg/kg		



according to Regulation (EC) No 1907/2006

Revision date: 27.02.2023

Divinol Multitherm 2

Article No.: 29880

Page 5 of 9

Additional advice on limit values

a no restriction

b End of exposure or end of shift

c at long-term exposure:

d before next shift

Y: A risk of reproductive effects needs not to be feared if the occupational exposure limit value (AGW) and the biological limit value (BGW) is kept

Z: A risk of reproductive effects cannot to be excluded if the occupational exposure limit value (AGW) and the biological limit value (BGW) is kept blood (B)

Urine (U)

8.2. Exposure controls

Appropriate engineering controls

See section 7. No additional measures necessary.

Individual protection measures, such as personal protective equipment

Eye/face protection

Eye glasses with side protection (EN ISO 16321).

Hand protection

Wear suitable gloves. Recommended glove articles: EN ISO 374. Suitable material: NBR (Nitrile rubber). Breakthrough 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 (EN 149), e.g. FFA P / FFP3.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

-	in information on subio phytolour and one		
	Physical state:	Paste	
	Colour:	brown	
	Odour:	characteristic	
	Melting point/freezing point:		not determined
	Boiling point or initial boiling point and		not determined
	boiling range:		
	Flammability:		not determined
	Lower explosion limits:		not applicable
	Upper explosion limits:		not applicable
	Flash point:		> 200 °C
	Auto-ignition temperature:		not determined
	Decomposition temperature:		not determined
	pH-Value:		not applicable
	Viscosity / kinematic:		not applicable
	Water solubility:		insoluble
	Partition coefficient n-octanol/water:		not determined
	Vapour pressure:		< 0,1 hPa
	(at 20 °C)		
	Density (at 15 °C):		0,99 g/cm³

according to Regulation (EC) No 1907/2006

Revision date: 27.02.2023	Divinol Multitherm 2 Article No.: 29880	Page 6 of 9
Relative vapour density:	not determined	
Particle characteristics:	not applicable	
9.2. Other information		
Other safety characteristics		
Pour point:	not applicable	
Viscosity / dynamic:	not determined	
Flow time:	not applicable	
Further Information		
No further relevant 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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	No Chemical name						
	Exposure route	Dose		Species	Source	Method	
	zinc carboxylate						
	oral	LD50 mg/kg	> 5000	Mouse			
	dermal	LD50 mg/kg	2500		ATE		
	phosphoric acid ester/amine salt						
	oral	LD50 mg/kg	> 5000	Rat			
	dermal	LD50 mg/kg	2500		ATE		

Irritation and corrosivity

Serious eye damage/eye irritation: Causes serious eye irritation.

Skin corrosion/irritation: 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

according to Regulation (EC) No 1907/2006

Revision date:	Divinol Multitherm 2	
27.02.2023	Article No.: 29880	Page 7 of 9

Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: 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.

11.2. Information on other hazards

Other information

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.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
	phosphoric acid ester/ami	ine salt					
	Acute fish toxicity	LC50	5,5 mg/l		Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 mg/l	0,58	72 h			
	Acute crustacea toxicity	EC50 mg/l	0,315		Daphnia magna (Big water flea)		

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.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
	phosphoric acid ester/amine salt	> 2,47

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

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 directive 2008/98/EC, covering waste and dangerous waste.

List of Wastes Code - residues/unused products

according to Regulation (EC) No 1907/2006

Revision date:	Divinol Multitherm 2	
27.02.2023	Article No.: 29880	Page 8 of 9
METALS AND PLASTICS;	G AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF wastes from shaping and physical and mechanical surface treatment of waxes and fats; hazardous waste	
Contaminated packaging Non-contaminated packages may be re disposal.	ecycled. Consult the appropriate local waste disposal expert about waste	
SECTION 14: Transport information		
Land transport (ADR/RID)		
<u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 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)		
14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Marine pollutant:	No dangerous good in sense of this transport regulation. No	
Air transport (ICAO-TI/IATA-DGR)		
<u>14.1. UN number or ID number:</u> 14.2. UN proper shipping name: 14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 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 userNo data available14.7. Maritime transport in bulk according to	o IMO instruments	
No data available		
SECTION 15: Regulatory information		
	lations/legislation specific for the substance or mixture	
EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3, Entry 75		
Directive 2010/75/EU on industrial emissions:	0 %	
Information according to Directive 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)	
National regulatory information		
Water hazard class (D):	2 - obviously hazardous to water	
15.2. Chemical safety assessment		
	tances in this mixture were not carried out.	
SECTION 16: Other information		

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

ZELLER+GMELIN

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision date: 27.02.2023	Divinol Multitherm 2 Article No.: 29880	Page 9 of 9
Abbreviations and acronyms Skin Irrit: Skin irritation		

Eve Dam: Eye damage Eye Irrit: Eye irritation Repr: Reproductive toxicity Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard ADR: Accord relatif au transport international des marchandises dangereuses par route (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 AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method

Relevant H and EUH statements (number and full text)

H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Further Information

Safety Data Sheet according to COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006

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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)