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Safety Data Sheet according to Regulation (EC) No. 1907/2006

1. Identification of the substance/mixture and of the company/ undertaking

1.1. Product identifier: 2171SH DIVINOL HIGH-TEMPERATURE

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

Use of the substance/mixture: Grease

1.4. Emergency telephone number:

Germany: +49 (0) 7161 / 802-400
In England and Wales: NHS Direct: 0845 4647 or 111
In Scotland: NHS 24: 08454 24 24 24
National Poisons Information Centre (Dublin):01 809 2166

2. Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2. Label elements

Regulation (EC) No. 1272/2008

Special labelling of certain mixtures

EUH208 Contains polysulfides, di-tert-dodecyl. May produce an allergic reaction.
EUH210 Safety data sheet available on request.

2.3. Other hazards

No further relevant information available.

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.

Hazardous components

CAS-No.	Chemical name			Quantity
	EC No.	Index-No.	REACH-No.	
	Classification (Regulation (EC) No 1272/2008)			
18621-94-8	Dilithium adipat			2,5 - < 5 %
	242-449-7		01-2120116611-70	
	Acute Tox. 4; H302			
68425-15-0	Polysulfide, Di-tert-dodecyl-			0,3 - < 1 %
	270-335-7		01-2119540516-41	
	Skin Sens. 1B; H317			
12006-96-1	Lithium tetrahydroxyborat			0,3 - < 1 %
	818-953-3		01-2120772309-47	
	Repr. 2, Acute Tox. 4, Eye Dam. 1; H361d H302 H318			

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

Specific Conc. Limits, M-factors and ATE

CAS-No.	EG-No.	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
18621-94-8	242-449-7	Dilithium adipat	0,3 - < 1 %
	oral: ATE = 500 mg/kg		
12006-96-1	818-953-3	Lithium tetrahydroxyborat	0,3 - < 1 %
	oral: ATE = 500 mg/kg Repr. 2; H361d: >= 7,6 - 100		

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.

4. First-aid measures

4.1. Description of first aid measures

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.

5. Fire-fightingmeasures

5.1. Extinguishing media

Suitable extinguishing media
alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO2).
Unsuitable extinguishing media
Full 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.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Protective measures: see section 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 objects and areas thoroughly observing environmental regulations.

6.3. Methods and material for containment and cleaning up

Other Information
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

Protective measures: see section 7 and 8.

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.
Handleand 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.

8. Exposure controls/ Personal protection

8.1. Control parameters

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. Exposure controls/ Personal protection

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.

Hand protection Wear suitable gloves. Recommended glove articles: DIN EN 374. Suitable material: NBR (Nitrilerubber). 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.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Paste	
Colour:	blue	
Odour:	characteristic	
		Test method
Changes in the physical state		
Melting point:	not determined	
Initial boiling point and boiling range:	not determined	
Pour point:	not applicable	
Flash point:	> 220 °C	EN ISO 2592
Lower explosion limits:	not applicable	
Upper explosion limits:	not applicable	
Auto-ignition temperature:	not determined	
Decomposition temperature:	No information available	
pH-Value:	not applicable	
Viscosity / dynamic:	not determined	
Viscosity / kinematic:	not applicable	
Flow time:	not applicable	
Water solubility:	insoluble	
Partition coefficient n-octanol/water:	not determined	
Vapour pressure:	not applicable	
Density (at 15 °C):	0,91 g/cm³	
Relative evaporation rate:	not determined	

9.2. Other information

Other safety characteristics

Evaporation rate: not determined

Further information

No information available.

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.

11. Toxicological information

11.1. Information on toxicological effects

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

CAS-No.	Chemical name				
	Exposure route	Dose	Species	Source	Method
18621-94-8	Dilithium adipate				
	oral	ATE 500 mg/kg			
12006-96-1	lithium tetrahydroxyborate				
	oral	ATE 500 mg/kg			

11. Toxicological information

11.1. Information on toxicological effects

Irritation and corrosivity Based on available data, the classification criteria are not met.
Sensitising effects Contains polysulfides, di-tert-dodecyl. May produce an allergic reaction.
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.

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.

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
68425-15-0	Polysulfides, Di-tert-dodecyl-					
	Acute Fish toxicity	LC50 > 100mg/l	96 h	Danio rerio (Zebrab fish)		OECD 203

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
68425-15-0	Polysulfides, Di-tert-dodecyl-	> 12

BCF

CAS-No.	Chemical name	BCF	Species	Source
68425-15-0	Polysulfides, Di-tert-dodecyl-	< 1		

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 dis rupting properties with respect to non-target organisms as no com ponents meets the criteria.

12.7. Other adverse effects

No data available

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 EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

List of Wastes Code - residues/unused products

120112 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; spent waxes and fats Classified as hazardous waste.

Contaminated packaging

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

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)

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: NO

14. Transport information

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. Maritime transport in bulk according to IMO instruments No data available

15. Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):	Entry 75
2010/75/EU (VOC):	0 %
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

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.

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.

Abbreviations and acronyms

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

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H361d	Suspected of damaging the unborn child.
EUH208	Contains polysulfides, di-tert-dodecyl. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Further Information

Safety Data Sheet according to COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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.)