according to Regulation (EC) No. 1907/2006 - en



## perma High speed grease SF08

Version	Revision Date:	Date of last issue: 18.11.2019	Print Date:
1.9.1	22.12.2021	Date of first issue: 20.01.2015	22.12.2021

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

1.1 Product identifier		
Product name	:	perma High speed grease SF08

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

Use of the Sub- stance/Mixture	:	Grease
Recommended restrictions on use	:	Restricted to professional users.

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

		perma-tec GmbH & Co. KG Hammelburger Str. 21 97717 EUERDORF GERMANY Tel: +49 9704 609-0 Fax: +49 9704 609-50 www.perma-tec.com
E-mail address of person responsible for the SDS	:	msds@perma-tec.com
National contact	:	

### **1.4 Emergency telephone number**

+49 9704 609-99 (Mo-Do 08:00-16:30, Fr 08:00-12:00)

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

according to Regulation (EC) No. 1907/2006 - en



### perma High speed grease SF08

Version	Revision Date:	Date of last issue: 18.11.2019	Print Date:
1.9.1	22.12.2021	Date of first issue: 20.01.2015	22.12.2021

### 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

### **Additional Labelling**

EUH210 Safety data sheet available on request.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

### 3.2 Mixtures

Chemical nature

Synthetic hydrocarbon oil special calcium soap

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration limits M-Factor Notes	Concentration (% w/w)
1,3,4-Thiadiazolidine- 2,5-dithione, reaction products with hydro- gen peroxide and tert- dodecanethiol	939-692-2 01-2119983498-16- XXXX	Aquatic Chronic3; H412		>= 1 - < 2.5

For explanation of abbreviations see section 16.

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

#### 4.1 Description of first aid measures

If inhaled: Remove person to fresh air. If signs/symptoms continue, get<br/>medical attention.<br/>Keep patient warm and at rest.<br/>If breathing is irregular or stopped, administer artificial respira-<br/>tion.In case of skin contact: Remove contaminated clothing. If irritation develops, get med-<br/>ical attention.<br/>Wash off with soap and water.

according to Regulation (EC) No. 1907/2006 - en



# perma High speed grease SF08

Version 1.9.1	Revision Date: 22.12.2021		e of last issue: 18.11.2019 e of first issue: 20.01.2015	Print Date: 22.12.2021	
In case of eye contact		:	<ul> <li>Rinse immediately with plenty of water, also under the eyelic for at least 10 minutes.</li> <li>If eye irritation persists, consult a specialist.</li> </ul>		
lf swa	allowed	:	Move the victim to fresh air. Do not induce vomiting without mee	dical advice.	
4.2 Most i	important symptoms	and e	ffects, both acute and delayed		
Symp	otoms	:	No information available.		
Risks	5	:	None known.		
4.3 Indication of any immediate medical attention and special treatment needed					
Treat	ment	:	No information available.		

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

<b>5.1 Extinguishing media</b> Suitable extinguishing media Unsuitable extinguishing media		Use water spray, alcohol-resistant foam, dry chemical or car- bon dioxide. High volume water jet
5.2 Special hazards arising from	the	e substance or mixture
Specific hazards during fire- fighting	:	Fire may cause evolution of: Carbon oxides Metal oxides Nitrogen oxides (NOx) Sulphur oxides
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposi- tion products may be a hazard to health.
Further information	:	Standard procedure for chemical fires.

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

6.1 Personal precautions, protective equipment and emergency procedures				
Personal precautions	:	Evacuate personnel to safe areas. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release		

according to Regulation (EC) No. 1907/2006 - en



# perma High speed grease SF08

perma	perma myn speeu grease sruo						
Version 1.9.1	Revision Date: 22.12.2021		e of last issue: 18.11.2019 e of first issue: 20.01.2015	Print Date: 22.12.2021			
			(dust). Do not breathe vapours, aerosols. Refer to protective measures listed in	sections 7 and 8.			
6.2 Enviro	onmental precautions	5					
	onmental precautions	:	Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.				
6.3 Metho	ds and material for c	ontai	nment and cleaning up				
	ods for cleaning up	:	Clean up promptly by sweeping or vac Keep in suitable, closed containers fo				
	<b>6.4 Reference to other sections</b> For personal protection see section 8.						
SECTION	N 7: Handling and s	torag	ge				
7.1 Preca	utions for safe handli	ing					
Advic	e on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be plication area. Wash hands and face before breaks a handling the product.	be prohibited in the ap-			
Hygie	ene measures	:	Wash face, hands and any exposed s handling.	kin thoroughly after			
7.2 Condi	tions for safe storage	e, incl	luding any incompatibilities				
Requ	irements for storage and containers	:	Store in original container. Keep conta use. Keep in a dry, cool and well-vent which are opened must be carefully re to prevent leakage. Store in accordan national regulations. Keep in properly	ilated place. Containers esealed and kept upright ce with the particular			
7.3 Speci	fic end use(s)						
-	ific use(s)	:	Specific instructions for handling, not	required.			

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

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

according to Regulation (EC) No. 1907/2006 - en



# perma High speed grease SF08

Version	Revision Date:	Date of last issue: 18.11.2019	Print Date:
1.9.1	22.12.2021	Date of first issue: 20.01.2015	22.12.2021

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
1,3,4-Thiadiazolidine- 2,5-dithione, reaction products with hydro- gen peroxide and tert- dodecanethiol	Workers	Inhalation	Long-term systemic effects	4.408 mg/m3
	Workers	Skin contact	Long-term systemic effects	6.25 mg/kg bw/day
bis(4-(1,1,3,3- tetramethyl- butyl)phenyl)amine	Workers	Inhalation	Long-term systemic effects	4.11 mg/m3
	Workers	Skin contact	Long-term systemic effects	1.17 mg/kg bw/day

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
1,3,4-Thiadiazolidine-2,5-	Fresh water	0.041 mg/l
dithione, reaction products with		
hydrogen peroxide and tert-		
dodecanethiol		
	Marine water	0.0041 mg/l
	Intermittent use/release	0.41 mg/l
	Microbiological Activity in Sewage Treat-	8000 mg/l
	ment Systems	
	Fresh water sediment	380.62 mg/kg
	Marine sediment	38.06 mg/kg
	Soil	308.98 mg/kg
	Oral	6.67 mg/kg
bis(4-(1,1,3,3-	Fresh water	0.00002 µg/l
tetramethylbutyl)phenyl)amine		
	Marine water	0.000002 µg/l
	Fresh water sediment	0.00467 mg/kg
	Marine sediment	0.000467 mg/kg
	Soil	0.000934 mg/kg

### 8.2 Exposure controls

**Engineering measures** 

none		
Personal protective equipm	ent	
Eye protection	: Т	Fightly fitting safety goggles
Hand protection Material Protective index		Nitrile rubber Class 1
Remarks	s F fi	For prolonged or repeated contact use protective gloves. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived rom it. The break through time depends amongst other hings on the material, the thickness and the type of glove

according to Regulation (EC) No. 1907/2006 - en



# perma High speed grease SF08

Version 1.9.1	Revision Date: 22.12.2021	Date of last issue: 18.11.2019Print Date:Date of first issue: 20.01.201522.12.2021	
and the		and therefore has to be measured for each case.	
Resp	iratory protection	: Not required; except in case of aerosol formation.	
Filter type		: Filter type P	
Protective measures		<ul> <li>The type of protective equipment must be selected ac to the concentration and amount of the dangerous su at the specific workplace.</li> <li>Choose body protection in relation to its type, to the co tration and amount of dangerous substances, and to t cific work-place.</li> </ul>	bstance oncen-

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

### 9.1 Information on basic physical and chemical properties

Appearance	:	paste
Colour	:	beige
Odour	:	characteristic
Odour Threshold	:	No data available
рН	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Combustible Solids
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	< 0.001 hPa (20 °C)
Relative vapour density	:	No data available
Density	:	0.91 g/cm3 (20 °C)

according to Regulation (EC) No. 1907/2006 - en



# perma High speed grease SF08

Version 1.9.1			of last issue: 18.11.2019 of first issue: 20.01.2015	Print Date: 22.12.2021
Bulk	density	:	No data available	
	bility(ies) Vater solubility	:	insoluble	
S	olubility in other solvents	<b>;</b>	No data available	
	ition coefficient: n- nol/water	:	No data available	
Auto	-ignition temperature	:	No data available	
Dece	omposition temperature	:	No data available	
	osity 'iscosity, dynamic	:	No data available	
V	iscosity, kinematic	:	No data available	
Expl	osive properties	:	Not explosive	
Oxid	izing properties	:	No data available	
9.2 Other	r information			
Subl	imation point	:	No data available	
Self-	ignition	:	No data available	

### **SECTION 10: Stability and reactivity**

10.1	Reactivity		
	No hazards to be specially mer	ntio	ned.
10.2	Chemical stability Stable under normal conditions	5.	
10.3	Possibility of hazardous read	ctio	ns
	Hazardous reactions	:	No dangerous reaction known under conditions of normal use.
10.4	Conditions to avoid		
	Conditions to avoid	•	No conditions to be specially mentioned.
10.5	Incompatible materials		
	Materials to avoid	:	No materials to be especially mentioned.

according to Regulation (EC) No. 1907/2006 - en



# perma High speed grease SF08

Version	Revision Date:	Date of last issue: 18.11.2019	Print Date:
1.9.1	22.12.2021	Date of first issue: 20.01.2015	22.12.2021

### **10.6 Hazardous decomposition products**

No decomposition if stored and applied as directed.

### **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

### Acute toxicity

### Product:

	Acute inhalation toxicity	:	Remarks: This information is not available
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#### **Components:**

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-
dodecanethiol:

Acute oral toxicity :	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity :	LC50 (Rat): > 2.75 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhala- tion toxicity Remarks: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration. Information given is based on data obtained from similar sub- stances.
Acute dermal toxicity :	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity Remarks: Information given is based on data obtained from similar substances.
Skin corrosion/irritation	
Product: Remarks :	This information is not available.
Components:	

#### 1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tertdodecanethiol:

Species	:	Rabbit
Assessment	:	No skin irritation
Method	:	OECD Test Guideline 404

according to Regulation (EC) No. 1907/2006 - en



# perma High speed grease SF08

berma	High speed g	rease	5FU8	
/ersion .9.1	Revision Date: 22.12.2021	Date	e of last issue: 18.11.2019 e of first issue: 20.01.2015	Print Date: 22.12.2021
Resu	lt	:	No skin irritation	
Serio	us eye damage/eye	e irritati	on	
Prod	uct:			
Rema	arks	:	This information is not available.	
<u>Com</u>	oonents:			
	Thiadiazolidine-2,5 canethiol:	-dithio	ne, reaction products with hydrog	gen peroxide and tert-
Speci	es	:	Rabbit	
	ssment	:	No eye irritation	
Metho Resu		:	OECD Test Guideline 405 No eye irritation	
Resp	iratory or skin sens	sitisatio	n	
Prod	uct:			
Rema		:	This information is not available.	
<u>Com</u>	oonents:			
	Thiadiazolidine-2,5 canethiol:	-dithio	ne, reaction products with hydrog	gen peroxide and tert-
Test <sup>-</sup>	Гуре	:	Buehler Test	
Speci		:	Guinea pig	
	ssment	:	Did not cause sensitisation on labo	oratory animals.
Metho Resu		:	OECD Test Guideline 406 Did not cause sensitisation on labo	oratory animals.
Germ	cell mutagenicity			
Prod	uct:			
	toxicity in vitro	:	Remarks: No data available	
Geno	toxicity in vivo	:	Remarks: No data available	
<u>Com</u>	oonents:			
	Thiadiazolidine-2,5 canethiol:	-dithio	ne, reaction products with hydrog	gen peroxide and tert-
Geno	toxicity in vitro	:	Test Type: In vitro mammalian cel Test system: Chinese hamster fibr Metabolic activation: with and with Method: OECD Test Guideline 473 Result: negative Remarks: Information given is bas similar substances.	roblasts nout metabolic activation 3
			9 / 17	

according to Regulation (EC) No. 1907/2006 - en



# perma High speed grease SF08

rsion ).1	Revision Date: 22.12.2021		e of last issue: 18.11.2019 e of first issue: 20.01.2015	Print Date: 22.12.2021
Germ sessm	cell mutagenicity- As- nent	:	Tests on bacterial or mammalian or mutagenic effects.	cell cultures did not show
Carci	nogenicity			
<u>Prodι</u> Rema		:	No data available	
<u>Comp</u>	oonents:			
	Thiadiazolidine-2,5-di canethiol:	thior	ne, reaction products with hydrog	gen peroxide and tert-
Carcir ment	nogenicity - Assess-	:	Not classifiable as a human carcin	logen.
Repro	oductive toxicity			
<u>Produ</u>				
Effect	s on fertility	:	Remarks: No data available	
Effect ment	s on foetal develop-	:	Remarks: No data available	
<u>Comp</u>	oonents:			
	Thiadiazolidine-2,5-di canethiol:	thior	ne, reaction products with hydrog	gen peroxide and tert-
	s on fertility	:	Species: Rat Application Route: Oral General Toxicity - Parent: NOAEL: General Toxicity F1: NOAEL: 1,00 Method: OECD Test Guideline 427 Remarks: Information given is bas similar substances.	0 mg/kg body weight 1
Repro sessm	oductive toxicity - As- nent	:	No toxicity to reproduction Animal testing did not show any ef ment.	ffects on foetal develop-
STOT	- single exposure			
•	oonents:			

# 1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-dodecanethiol:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

according to Regulation (EC) No. 1907/2006 - en



### perma High speed grease SF08

1.9.1         22.12.2021         Date of first issue: 20.01.2015         22.12.2021	Version 1.9.1	Revision Date: 22.12.2021	Date of last issue: 18.11.2019 Date of first issue: 20.01.2015	Print Date: 22.12.2021
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### STOT - repeated exposure

#### **Components:**

# 1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-dodecanethiol:

: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### Repeated dose toxicity

#### Product:

#### **Components:**

#### 1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tertdodecanethiol:

Species	:	Rat
NOAEL	:	250 mg/kg
Application Route	:	Oral
Method	:	OECD Test Guideline 421
Remarks	:	Information given is based on data obtained from similar sub-
		stances.

#### Aspiration toxicity

### Product:

This information is not available.

#### **Further information**

### Product:

Remarks

: Information given is based on data on the components and the toxicology of similar products.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product:		
Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available

according to Regulation (EC) No. 1907/2006 - en



# perma High speed grease SF08

/ersion .9.1	Revision Date: 22.12.2021		e of last issue: 18.11.2019 e of first issue: 20.01.2015	Print Date: 22.12.2021
Toxic	ity to microorganisms	:	Remarks: No data available	
<u>Com</u>	ponents:			
	-Thiadiazolidine-2,5-di canethiol:	thio	ne, reaction products with hydroge	en peroxide and tert-
Toxic	ity to fish	:	LC50 (Pimephales promelas (fathea Exposure time: 96 h	ad minnow)): > 1,000 mg
	ity to daphnia and othe tic invertebrates	r:	EC50 (Daphnia magna (Water flea) Exposure time: 48 h Method: OECD Test Guideline 202	i): 41 mg/l
Toxic plants	ity to algae/aquatic s	:	EC50 (Pseudokirchneriella subcapi mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201	tata (green algae)): > 10
	oxicology Assessment	t		
Acute	e aquatic toxicity	:	Harmful to aquatic life.	
Chror	nic aquatic toxicity	:	Harmful to aquatic life with long last	ting effects.
2.2 Persi	istence and degradabi	lity		
<u>Prod</u> Biode	<u>uct:</u> egradability	:	Remarks: No data available	
	co-chemical removabil-	:	Remarks: No data available	
<u>Com</u>	ponents:			
	-Thiadiazolidine-2,5-di canethiol:	thio	ne, reaction products with hydroge	en peroxide and tert-
Biode	egradability	:	Test Type: Primary biodegradation Inoculum: activated sludge Result: Not readily biodegradable. Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guideline 3010	с

### 12.3 Bioaccumulative potential

### Product:

Bioaccumulation	:	Remarks: This mixture contains no substance considered to
		be persistent, bioaccumulating and toxic (PBT).

according to Regulation (EC) No. 1907/2006 - en



# perma High speed grease SF08

Version 1.9.1	Revision Date: 22.12.2021		e of last issue: 18.11.2019 e of first issue: 20.01.2015	Print Date: 22.12.2021
			This mixture contains no substand persistent and very bioaccumulati	
Com	ponents:			
	-Thiadiazolidine-2,5-d ecanethiol:	ithio	ne, reaction products with hydro	gen peroxide and tert-
Bioad	ccumulation	:	Species: Fish Bioconcentration factor (BCF): 3.1	16
	tion coefficient: n- nol/water	:	log Pow: 8 (20 °C)	
12.4 Mob	ility in soil			
Prod	luct:			
Mobi	lity	:	Remarks: No data available	
	ibution among environ- tal compartments	:	Remarks: No data available	
12.5 Resı	ults of PBT and vPvB a	asse	ssment	
Prod	luct:			
Asse	essment	:	This substance/mixture contains r to be either persistent, bioaccumu very persistent and very bioaccum 0.1% or higher	lative and toxic (PBT), or
12.6 Othe	er adverse effects			
Prod	luct:			
Addit matic	-	:	No information on ecology is avail	lable.
SECTIO	N 13: Disposal cons	idera	ations	
13.1 Was	te treatment methods			
Prod	uct	:	The product should not be allowed courses or the soil.	d to enter drains, water
			Monte ender des labors de la	

Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product. Dispose of waste product or used containers according to local regulations.

Waste codes should be assigned by the user based on the

according to Regulation (EC) No. 1907/2006 - en



# perma High speed grease SF08

Version	Revision Date:	Date of last issue: 18.11.2019	Print Date:
1.9.1	22.12.2021	Date of first issue: 20.01.2015	22.12.2021

The following Waste Codes are only suggestions:

### **SECTION 14: Transport information**

14.1 UN number					
ADR	:	Not regulated as a dangerous good			
IMDG	:	Not regulated as a dangerous good			
ΙΑΤΑ	:	Not regulated as a dangerous good			
14.2 UN proper shipping name					
ADR	:	Not regulated as a dangerous good			
IMDG	:	Not regulated as a dangerous good			
ΙΑΤΑ	:	Not regulated as a dangerous good			
14.3 Transport hazard class(es)					
ADR	:	Not regulated as a dangerous good			
IMDG	:	Not regulated as a dangerous good			
ΙΑΤΑ	:	Not regulated as a dangerous good			
14.4 Packing group					
ADR	:	Not regulated as a dangerous good			
IMDG	:	Not regulated as a dangerous good			
IATA (Cargo)	:	Not regulated as a dangerous good			
IATA (Passenger)	:	Not regulated as a dangerous good			
14.5 Environmental hazards					
ADR	:	Not regulated as a dangerous good			
IMDG	:	Not regulated as a dangerous good			
IATA (Passenger)	:	Not regulated as a dangerous good			
IATA (Cargo)	:	Not regulated as a dangerous good			
<b>14.6 Special precautions for user</b> Not applicable					
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code					
Remarks	:	Not applicable for product as supplied.			

according to Regulation (EC) No. 1907/2006 - en



### perma High speed grease SF08

Version	Revision Date:	Date of last issue: 18.11.2019	Print Date:
1.9.1	22.12.2021	Date of first issue: 20.01.2015	22.12.2021

### **SECTION 15: Regulatory information**

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	This product does not contain sub- stances of very high concern (Regu- lation (EC) No 1907/2006 (REACH), Article 57).			
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable			
Regulation (EC) No 1005/2009 on substances that de- plete the ozone layer	:	Not applicable			
Regulation (EC) No 850/2004 on persistent organic pol- lutants	:	Not applicable			
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable			
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Not applicable			
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable					

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Not applicable

### 15.2 Chemical safety assessment

This information is not available.

### **SECTION 16: Other information**

### Full text of H-Statements

H412 : Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN

according to Regulation (EC) No. 1907/2006 - en



### perma High speed grease SF08

Version	Revision Date:	Date of last issue: 18.11.2019	Print Date:
1.9.1	22.12.2021	Date of first issue: 20.01.2015	22.12.2021

- Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration: ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

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