

Product Info NanoGrease Extreme 16W/mk thermal grease

The Pictures

Picture 1



Picture 2



Picture 3



The background behind Phobya:

Phobya is no company in the classical sense but a union of multiple companies, manufacturers, designers and technology owners which develop and produce products adhering to uniform and strict quality standards and distribute them.

Therefore Phobya does not have a head office but rather develops and produces products at multiple locations worldwide.

	Property	Phobya Product	t Performance	Unit	Test Method
al	Color	Grey		Visual	
sic	Viscosity	85000		Cps/TF	@25°C
Physical	Volatile Content	0.2-1.0%			@120°C/96hr
	Operating Temperature	-50 ~ + 200		°C	
	Specific Gravity	2.7 ± 0.2		g/cm³	ASTM D14175
_	Evaporation	0,01 @ 200°C /9	96hours	%	Fed.Std.791
Mechanical	Content Material	Silicone	10 - 15	%	
		Metal Oxide	>50	%	
Me		Metal Power	25 -30	%	
	Dielectric constant	14.5 @ 1Mhz		kV/mm	ASTM D150
	Thermal Conductivity	16.0 <0,05		W/mk	ROCT 8.140-82
	Thermal Impedance			°C .in²/w	UL94
	Thixotropic Index	380 ± 10		1/10mm	GB/T-269
·	Shelf Lifetime	2		Years	
RoHS Compliant		Yes			Lab.
					Certification



Phobya's NanoGrease Extreme is designed to gain the last bit of cooling performance in the high-end sector!

This thermal compound is of course not only well-suited for the high-end sector, the normal user can also profit from this product. It allows better cooling performance for an existing system with little effort. Phobya has developed a product which offers exceptional performance with a thermal conductivity of 16W/mK!.

Itemcode	Content	Retailpack	EAN
31103	3,5 g	Yes	4049469164577





Phobya MSDS Page 1/5
Phobya NanoGrease Extreme
Version No.: 1.0
Revision Date 2014.05.14

Content of MSDS for fallowing Produ			ct Itemcode 31104					
1.)Produ)Product Name Phobya HeGrease S			Standard				
Synonym	m Thermal conductive grease							
Product F	Responsable	Aquatuni	ng GmbH					
Company	Information:	Beckheid	e 13					
			elefeld – G					
		Tel.: +49 !	5205-991	98 0				
			5205-991					
		Email: inf	o@aquatu	ıning.de				
	osition/information							
Common	chemical name	Silicone	1	10-15%	Treated Filter Standards of Industrial Hygiene Standards			
Common	chemical name	Metal Pov	wder 2	25-30%	Hazardoι	us Components (Specific Chem	nical)
Common	chemical name	Metal oxi	de >	>50%	OSHA PEI	L ACGIH TLV	TWA	Optional
Final Resi	ult	Hazardou	s Compon	ents Filters	%	%	%	%
List of Co	ntent	Silicon did	oxide		None	None	None	None
		Metal Oxides			None	None	None	
		Zinc Oxides		None	None	None	None	
		Metal Pov	Metal Powder		None	None	None	None
		Formalde	dehyde		None	None	None	None
3.) Hazar	ds identification							
3.1	3.1 Overall Hazard		Dangerous for the environment.					
	Classification:							
3.2	Hazard Informatio	n:	Toxic to aquatic organisms, may cause long-term and adverse effects in the aquatic					
			environment.					
			Avoid Contact with skin and eyes					
			In case of fire and / or explosion do not breathe fumes.					
			Use appropriate container to avoid environmental contamination.					
			This material and its container must be disposed of as hazardous waste.					
3.3	Route of Exposure		Skin Contact and Accidental Ingestion					
3.4	Possible Health Ef	fects:						
Acute	Eyes:		Direct contact may cause mild irritation					
	Skin:		No significant irritation expected from a single short-term exposure					
	Inhalation: No sign			o significant effects expected from single short-term exposure				
	Ingestion: Low			Low ingestion hazard in normal use				
Chronic	Skin: Repeated or prolonged e			or prolonged exp	xposure may cause irritation			
	Inhalation:		No known applicable Information					
				ingestion or swall	allowing large amounts may injure internally			
3.5	Signs and Symptoms of Overexposure: No significant adverse effects from a single exposure expected from normal							



Phobya MSDS Page 2/5 Phobya NanoGrease Extreme Version No.: 1.0

Revision Date 2014.05.14

Content o	f MSDS for fallowing Pr	oduct Itemcode	31104			
4.)First Al	D Measures					
4.1	Eyes:	mmediately flush with water for 15 minutes				
4.2	Skin:	lo first aid should be needed				
4.3	Inhalation:	No first aid should be needed	first aid should be needed			
4.4	Ingestion:	Get medical attention				
4.5	Comments:	Treat according to person's cor	ndition and specifics of exposure.			
4.6	Note to physicians	Treat symptomatically.				
5.) Fire Fig	ghting Measures					
5.1	Flammability:		Non-flammable.			
5.2	Flash Point:		>200°C (Seta Closed Cup)			
5.3	Auto ignition temper	ature:	Not determined.			
5.4	Lower Flammability L	imit:	Not determined.			
5.5	Upper Flammability L	imit:	Not determined			
5.6	Hazardous Properties		None.			
5.7	Extinguishing Media:		On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO2), dry chemical or water			
			spray. Water can be used to cool fire exposed containers.			
5.8	Special Fire Fighting Procedures and Equipment:		Determine the need to evacuate or isolate the area according your local emergency plan. Use water spray to keep fire exposed containers cool. Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals.			
5.9	Hazardous Combustion Products:		Carbon oxides and traces of incompletely burned carbon			
			compounds. Silicon dioxide. Metal oxides. Formaldehyde.			
5.10	Unsuitable Extinguish	ning Media:	None established.			
	ntal Release Measures					
	Personal Precautions:	Avoid eye contact. Do not				
	Environmental		Prevent from spreading or entering into drain ditches or rivers by using sand, earth or			
	Precautions:	other appropriate barriers.				
6.3	Methods for Cleaning u	diked material can be pum up or scrape up and contai spilled materials, even in st require use of steam, solve materials appropriately, sit apply to releases and dispo employed in the cleanup o	Observe all personal protective equipment recommendations described in this MSDS. If diked material can be pumped, store recovered material in appropriate container. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need determine which laws and regulations are applicable.			



9.10

Explosive properties:

Phobya MSDS Page 3/5 Phobya NanoGrease Extreme Version No.: 1.0 Revision Date 2014.05.14

Content of	of MSDS for fallowing Produc	t Itemcode 3	1104			
7.)Handli	ing and Storage					
7.1	Handling Precautions:	Use with adequate ventilation. Avoid eye contact. Do not take internally. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.				
7.2	Storage Conditions:	Use reasonable care and store away fro	Use reasonable care and store away from oxidizing materials.			
7.3	Unsuitable Packaging Materials:	None established.				
8.) Expos	ure Controls / Personal Prote	ection				
8.1	Industrial Hygiene Standar	ds				
	Integredients CAS No.	Exposure Limits				
	Treated Filler	Observe zinc oxide limits. OSHA PEL (final respirable fraction. ACGIH TLV: TWA 10m				
8.2	Engineering Controls					
	Local Ventilation:	None should be needed.				
	General Ventilation:	Recommended.				
8.3	Personal Protective Equipr	nent for Routine Handling				
	Respiratory protection:	No respiratory protection should be needed.				
	Suitable Respirator:	None should be needed.				
	Eye protection:		Use proper protection – safety glasses as a minimum.			
	Hand protection:	No special protection needed.				
	Skin protection:	Washing at mealtime and end of shift is adequate.				
	Hygiene Measures:	Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.				
8.4	Personal Protective Equipr	nent for Spills				
	Respiratory protection:	No respiratory protection should be needed.				
	Eye protection:	Use proper protection – safety glasses as a minimum				
	Skin protection:	Washing at mealtime and end of shift is adequate				
	Precautionary Measures:	Avoid eye contact. Do not take internally. Use reasonable care.				
9.) Physic	cal and chemical properties					
9.1	Physical Form:	Grease.				
9.2	Colour:	Grey.				
9.3	Odour:	Slight odor.				
9.4	pH:	Not determined.				
9.5	Solubility in Water:	Immiscible in water.				
9.6	Boiling Point:	Not determined.				
9.7	Melting Point:	Not determined.				
9.8	Flash Point:		<200°C (Seta Closed Cup).			
9.9	Auto ignition temperature	Not determined.				



Treatment Plants

Phobya MSDS Page 4/5
Phobya NanoGrease Extreme
Version No.: 1.0
Revision Date 2014.05.14

Content of	of MSDS for fallowing Produc	it	Itemcode	31104		
	cal and Chemical Properties					
9.11	Oxidizing properties:	No.				
9.12	Vapor Pressure @25°C	Not det	Not determined.			
9.13	Specific Gravity:	2.7				
9.14	Octanol / water partition coefficient:	Not det	termined.			
9.15	Vapour Density (air=1)	Not det	termined.			
9.16	Viscosity:	85,000	@ 25°C			
9.17	Molecular Weight:		termined.			
10.) Stabi	ility and reactivity					
10.1		Stable.				
10.2	Reactivity					
	Conditions to Avoid	None				
	Materials to Avoid	Oxidizing	; material can cause a reactior	n.		
	Hazardous Decompositions Products	Silicon dio	oxide, Zinc Oxides, Metal Pow	ver, Formaldehyde.		
	Hazardous	Hazardou	us polymerization will not occu	ur.		
	Polymerization:					
	cological Information					
11.1	Possible Health Effects:	when f pregna	fed to rats at 300 mg/kg/day	inc oxide produced adverse developmental effects for 21 days prior to mating and throughout fects were observed at a dose of 100mg/kg/day for		
11.2	Sensitizing Effects:	None	known.			
	Mutagenic Effects:	None	known.			
11.4	Reproductive Effects:	None	known.			
	Carcinogenic Effects:		known.			
	Other Health Hazard Information:	Mayca	iuse irritation to eyes, respira	se irritation to eyes, respiratory system and skin		
	The above listed potential effects of overexposure are based on actual data, the results of studies performed upon similar compositions component data, and/or expert review of the products.					
12.) Ecolo	ogical Information					
12.1	Environmental Fate and Distr	ibution:	Complete information is no	ot yet available.		
12.2	Environmental Effects:		Complete information is not yet available.			
	Fate and Effects in Waste Water		Complete information is no			



FEAR IT!

Material Safety Data sheet

Phobya MSDS Page 5/5
Phobya NanoGrease Extreme
Version No.: 1.0
Revision Date 2014.05.14

Content of MSDS for fallowing Product			Itemcode	31104
13.)Dispo	osal Considerations			
13.1	Product Disposal:	This materia	I must be disposed of as	hazardous Waste
13.2	Packaging Disposal:	Dispose of in	n accordance with local re	egulations.
•	sport Information			
14.1	Road and Rail Transport:	Recommended	d to Label under UN 3082	? Requirements
14.2	Sea Transport (IMDG):		d to Label under UN 3082	
14.3	Air Transport (IATA):	Recommended	d to Label under UN 3082	? Requirements
14.4	Truck Transport (ADR):	Recommended	d to Label under UN 3082	? Requirements
	ulatory Information			
15.1	Packaging Label Regulatory:	No Special _I	packaging or labelling rec	quirements.
_15_2	Indication of Danger:	(contains Zi	nvironmentally hazard sul inc oxide) 9 III Marine Pol	
15.3	Indication of Danger:	Not determ		
15.4	R: 50/53		nents: Toxic to aquatic org	ganisms and may cause long-term adverse effects
15.5	S:60/61	waste. Reco		d its container can be disposed of as hazardous to the environment. Refer to special
	eral Information			
16.1				t date of preparation. No warranty is made as to
	the accuracy or completenes	s of the foregoi	ing data and safety result	ing from abnormal use from any failure to adhere

to recommended practices, or from any hazards inherent in the nature of the product.

The MSDS is prepared in accordance with ISO 11014-1:1994

16.2