Safety Data Sheet according to Regulation (EU) No. 2015/830 Date of issue: 01/06//2017 Revision date: 21/04//2023

Version: 4.0

SECTION 1: Identification of the	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	: HARMONIC GREASE <sup>®</sup> SK-3
Product code	: Not available
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Consumer use, Industrial use
Uses advised against	No specific uses advised against are identified.
Use of the substance/mixture	: Lubricating grease
<b>1.2.2.</b> Uses advised against No additional information available	
1.3. Details of the supplier of the sat	fety data sheet
Harmonic Drive SE Hoenbergstrasse 14 65555 Limburg - Germany T +49-6431-5008-0 F +49-6431-5008-119 <u>customercare@harmonicdrive.de</u>	
1.4. Emergency telephone number	
Emergency number	: +49-6431-5008-0
SECTION 2: Hazards identificatio	in a state of the
2.1. Classification of the substance	or mixture
Classification according to Regulation (E Not classified.	C) No. 1272/2008 [CLP]
2.2. Label elements	
Labelling according to Regulation (EC) N No labelling applicable	o. 1272/2008 [CLP]
2.3. Other hazards	
disrupting properties, or is not identified as h Regulation (EU) 2017/2100 or Commission	5 ( )
SECTION 3: Composition/informa	ation on ingredients
3.2. Mixture	
No hazardous ingredients.	
Additional information:	
	the refined mineral base oil. Note L - The classification as a carcinogen need not
	contains less than 3 % DMSO extract as measured by IP 346.)
SECTION 4: First aid measures	
4.1. Description of first aid measure	
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists.
First-aid measures after eye contact	: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.
First-aid measures after ingestion	: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Never give anything by mouth to an unconscious person.
4.2. Most important symptoms and o	effects, both acute and delayed
Symptoms/injuries after inhalation	: May cause respiratory tract irritation.

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Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear
	production, with possible redness and swelling.
Symptoms/injuries after ingestion	: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
	dical attention and special treatment needed
	case of accident or if you feel unwell, seek medical advice immediately
SECTION 5: Firefighting measure	es
5.1. Extinguishing media	
Suitable extinguishing media	: Foam, Dry chemical, Carbon dioxide.
Unsuitable extinguishing media	: Do not use water jet.
5.2. Special hazards arising from the	
Fire hazard	: Products of combustion may include, and are not limited to: oxides of carbon. Oxides of sulfu
5.3. Advice for firefighters	
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).
SECTION 6: Accidental release n	
	ve equipment and emergency procedures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry t
General measures	unnecessary and unprotected personnel.
6.2. Environmental precautions	
•	aterways. Minimize use of water to prevent environmental contamination.
6.3. Methods and material for conta	
For containment	<ul> <li>Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).</li> </ul>
Methods for cleaning up	: Vacuum or sweep material and place in a disposal container. Provide ventilation.
6.4. Reference to other sections	
See section 8 for further information on prot	tective clothing and equipment and section 13 for advice on waste disposal.
<b>SECTION 7: Handling and storag</b>	je
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin and eyes. Avoid breathing vapour or mist. Do not swallow. Handle an open container with care. When using do not eat, drink or smoke.
Hygiene measures	: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking
7.2. Conditions for safe storage, inc	· · · ·
Storage conditions	: Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well- ventilated area. Protect from sunlight.
7.3. Specific end use(s)	
Not available.	
SECTION 8: Exposure controls/p	ersonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
Hand protection	: Wear suitable gloves.
Luc protoction	: Safety glasses or goggles are recommended when using product.
• •	: Wear suitable protective clothing.
Skin and body protection	
Eye protection Skin and body protection Respiratory protection	<ul> <li>In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.</li> </ul>
Skin and body protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the

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SECTION 9: Physical and chemical	properties	
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Appearance	: Smooth semi-solid	
Colour	: Yellow.	
Odour	: Bland.	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: > 160 °C (> 320 °F) (SETA)	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Not flammable	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: 0.92 at 25 °C (77 °F)	
Solubility	: Water: Negligible.	
Partition coefficient: n-octanol/water	: No data available	
Viscosity, kinematic	: > 20 mm²/s at 40 °C (104 °F)	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: No data available	
9.2. Other information		

No additional information available

SECTION 10: Stability and reactivity		
10.1. Reactivity		
No dangerous reaction known under conditions of normal use.		
10.2. Chemical stability		
Stable under normal storage conditions.		
10.3. Possibility of hazardous reactions		
No dangerous reaction known under conditions of normal use.		
10.4. Conditions to avoid		
Heat. Incompatible materials. Sources of ignition.		
10.5. Incompatible materials		
Acids. Oxidizing agent. Hydrogen peroxide. Permanganates. Perchlorates. Halogens. Halogenated compounds.		
10.6. Hazardous decomposition products		
May include, and are not limited to: oxides of carbon. Oxides of sulfur.		
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity : Not classified.		

HARMONIC GREASE® SK-3	ARMONIC GREASE® SK-3	
LD50 oral rat	> 2000 mg/kg(Base oil)	
LD50 dermal rabbit	> 2000 mg/kg(Base oil)	
LC50 inhalation rat	No data available	
Skin corrosion/irritation	No further relevant information available.	
Serious eye damage/irritation	No further relevant information available.	

Reprodu	ctive toxicity	: No further relevant information available.
•	target organ toxicity (single exposure)	: No further relevant information available.
•	target organ toxicity (repeated exposure)	: No further relevant information available.
	on hazard	: No further relevant information available.
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SECTI	ON 12: Ecological information	
12.1.	Toxicity	
Ecology	- general	: No further relevant information available.
12.2.	Persistence and degradability	
HARM	ONIC GREASE <sup>®</sup> SK-3	
Persist	ence and degradability	Not established.
12.3.	Bioaccumulative potential	
HARM	ONIC GREASE <sup>®</sup> SK-3	1
Bioacci	umulative potential	Not established.
12.4.	Mobility in soil	
No additi	ional information available	
12.5.	Results of PBT and vPvB assessmen	t
No addit	ional information available	
12.6.	Other adverse effects	
-	ional information available	
	ON 13: Disposal consideration	
13.1.	Waste treatment methods	
	isposal recommendations	: This material must be disposed of in accordance with all local, state, provincial, and federal
vaste u	isposal recommendations	regulations. The generation of waste should be avoided or minimized wherever possible.
SECTI	ON 14: Transport information	
n accord	dance with ADR	
14.1.	UN number	
DOT,AD	R,IMDG,IATA: Not regulated	
14.2.	UN proper shipping name	
	R,IMDG,IATA : Not regulated	
DOT,AD		
	Transport hazard class(es)	
14.3.	Transport hazard class(es) R,IMDG,IATA : Not regulated	
14.3. DOT,AD		
14.3. DOT,AD	R,IMDG,IATA: Not regulated	
14.3. DOT,AD 14.4. DOT,AD	R,IMDG,IATA : Not regulated Packing group	
14.3. DOT,AD 14.4. DOT,AD 14.5.	R,IMDG,IATA : Not regulated Packing group R,IMDG,IATA : Not regulated	: No
14.3. DOT,AD 14.4. DOT,AD 14.5. Dangero	R,IMDG,IATA : Not regulated Packing group R,IMDG,IATA : Not regulated Environmental hazards sus for the environment	: No : No
14.3. DOT,AD 14.4. DOT,AD 14.5. Dangero Marine p	R,IMDG,IATA : Not regulated Packing group R,IMDG,IATA : Not regulated Environmental hazards sus for the environment	
14.3. DOT,AD 14.4. DOT,AD 14.5. Dangero Marine p	R,IMDG,IATA : Not regulated Packing group R,IMDG,IATA : Not regulated Environmental hazards pugs for the environment pollutant	: No

Not applicable

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

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

#### 15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions Contains no REACH candidate substance. Contains no REACH Annex XIV substances Contains no CLP regulation substances

#### 15.1.2. National regulations

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#### Germany

Water hazard class (WGK)

**Chemical safety assessment** 15.2.

: 1 - low hazard to waters

No chemical safety assessment has been carried out.		
SECTION 16: Other information		
Indication of changes: Formulation Revision		
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.	
Other information	: None.	

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