



# Technical Information

Release date: 02/02/2004

Validation date: 1/18/2011

Product designation:	<b>Turmogrease N 2</b>			
ISO designation:	<b>K HC P 2 P -40</b>			
<b>LUBCON – Special Grease</b>				
<p><b>Turmogrease N 2</b> is a fully synthetic special grease offering a multitude of application possibilities in industrial plants and in the automotive industry. <b>Turmogrease N 2</b> can be recommended for:</p> <ul style="list-style-type: none"> <li>- long-term und permanent lubrication in all branches of the machine building industry</li> <li>- neutralizing the influences of cold / hot water, steam, aqueous alkaline or acidic cleaning or washing agents resp. its vapours corresponding to DIN 51 807</li> <li>- high temperatures operation</li> </ul>				
<b>TECHNICAL DATA</b>	<b>acc. Standard</b>	<b>DIN/ISO – Metric Units</b>	<b>US – Standard Units</b>	
Colour		beige		
Structure		pasty		
Odor		weak		
Thickener type		polyurea		
Base oil type		PAO/Easter		
Base oil viscosity	at 40°C (104°F)	DIN 51 562	150 mm <sup>2</sup> /s	699.5 SUS
	at 100°C (220°F)		19 mm <sup>2</sup> /s	94.2 SUS
Density	at 20°C (68°F)	DIN 51 757	0.87 g/cm <sup>3</sup>	
Worked penetration (1/10 mm)		DIN ISO 2137	265 – 295	
Consistency class		DIN 51 818	2	
Dropping point		DIN ISO 2176	> 250°C	> 480°F
Water resistance		DIN 51 807	0 - 90	
Corrosion protection ( Emscor )		DIN 51 802	0/0	
Speed factor (n x d <sub>m</sub> )			600,000 mm <sup>3</sup> /min	
Temperature range			-40°C to 160°C	-40°F to 320°F
Continuous lubrication or peak temp.			220°C	428°F
FE 9-test	A/1.5/6000-140F <sub>50</sub>	DIN 51 821	> 500 h	
Ignition temperature		DIN 51 794	> 250°C	480°F
Flash point		DIN EN ISO 2592	> 200°C	390°F

## Original Packing

1 kg (2.2 lbs) cans, 400 g (14 oz) grease cartridges, 25 kg (55 lbs) can, 180 kg (55 gal) drum



# Material Safety Data Sheet – MSDS acc. 2001/58 EEC

1.1	Product name	<b>Turmogrease N 2</b>	
1.2	Company of origin identification	LUBRICANT CONSULT GMBH Gutenbergstraße 13 63477 Maintal GERMANY	Tel.: +49 6109/7650-0 FAX: +49 6109/7650-51
2.0	Composition	Combination of synthetic hydrocarbons, synthetic ester, polyurea and additives.	
3.0	Hazards identification	The product when properly handled is not dangerous for the human health. Harmful effects are expected only in case of misuse especially in case of thermal decomposition.	
4.0	First aid measures	<p>Skin contact: Wash with water and soap. Remove contaminated clothing. If grease has penetrated skin by force (in case of misuse of a grease press): See a physician* immediately.</p> <p>Eye contact: Flush with plenty of water for at least 15 minutes. See a physician* if the eye irritation remains.</p> <p>Ingestion: See a physician* if necessary. Do not induce vomiting.</p> <p>Inhalation: Remove the patient to fresh air. See a physician* if necessary.</p> <p>*Show the physician this safety data sheet.</p>	
5.0	Fire fighting measures	Suitable extinguishing media: dry chemicals, powder, foams, carbon dioxide Do not use water. In the case of fire, the vapor can involve toxic compounds (carbon monoxide). Use a respirator to protect from vapors.	
6.0	Accidental release measures	Pick up free grease for recycle or disposal. Absorb small amounts on inert material. Collect the released product and the used absorbent materials in suitable containers for disposal (see sect. 13). Avoid the uncontrolled discharge in sewage systems, in surface and underground waters. Do not smoke while handling with released grease.	
7.0	Handling and store measures	Store in cool and dry areas. Keeping quality in original drums for the storage conditions mentioned above: minimum 5 years. If the grease is exposed to high temperatures, good ventilation in the working areas is necessary. Avoid the contact of sparks and flames. Do not eat, drink and smoke in working areas.	
8.0	Exposure control / Personal protection	<p>Hand protection: Not necessary in normal use. When often handling the product wear gloves (i.e. made from Latex, permanent using time &gt;30 min.; made from butyl rubber, permanent using time &gt;8 hours and other materials).</p> <p>Respiratory protection: Not necessary in normal use. Avoid breathing the vapours above the decomposition temperature (oil mist).</p> <p>Eye protection: Not necessary in normal use. Wear safety glasses, if necessary</p>	
9.0	Physical and chemical properties	<p>Physical state: pasty</p> <p>Color: beige</p> <p>Odor: weak</p> <p>Dropping point: &gt; 250°C (&gt; 480°F) DIN ISO 2176</p> <p>Boiling point: &gt; 300°C (&gt; 570°F)</p> <p>Density: 0.87 g/cm<sup>3</sup> at 20°C (68°F) DIN 51 757</p> <p>Vapor pressure: &lt; 0.1 mbar at 20°C (68°F)</p> <p>Viscosity (basic oil): 150 mm<sup>2</sup>/s at 40°C (100°F) DIN EN ISO 3104 19 mm<sup>2</sup>/s at 100°C (212°F)</p> <p>Solubility in water: insoluble</p> <p>pH-value: not determined</p> <p>Flash point: &gt; 200°C (&gt; 390°F) DIN EN ISO 2592</p> <p>Ignition temperature: &gt; 250°C (&gt; 480°F) DIN 51 794</p> <p>Explosion limits: lower: approx. 0.6 Vol-% upper: approx. 6.5 Vol-% (for oil mist)</p>	
10.0	Stability and reactivity	The product is stable in normal condition of use and storage. Thermal decomposition: > 200°C (> 390°F). In the case of misuse at temperatures above the decomposition temperature harmful vapours may arise from the product. Materials to avoid contact: strong oxidising agents (compressed or liquid oxygen), very strong acids, very strong alkalis.	
11.0	Toxicological information	<p>Experimental toxicological data.</p> <p>oral*: LD<sub>50</sub> &gt; 5000 mg/kg (rat)</p> <p>limit value for oil mist: 5 mg/m<sup>3</sup></p> <p><b>Turmogrease N 2</b> when properly handled is not dangerous for human health. <b>Turmogrease N 2</b> has no known effects of chronic toxicity or carcinogenesis (Based on data from components).</p>	
12.0	Ecotoxicological information	Use the product according to the good working practices avoiding polluting the environment. WGK 1: Slightly water endangering (Classification according to German VwVwS from May, 1999): Avoid the contamination of soil and water.	
13.0	Disposal considerations	<p>Destroy the waste product by incineration according to local laws and regulations.</p> <p>LAGA- Waste code number (Germany): 542 02 for waste lubricants. 542 09 for solid materials contaminated with grease or oil.</p> <p>EWC- Waste code number (European Community): 12 01 12 for used waxes and greases 15 02 99 D1 for used absorbent and filter materials, cleaning rags and protection clothes contaminated with grease or oil. 17 02 99 D1 for wood, glass and plastics containing grease or oil (for example: residuals of grease in plastic tubes).</p>	
14.0	Transport information	<p>The product is not dangerous for transportation</p> <p>Road transportation: (ADR) not classified</p> <p>Rail transportation: (RID) not classified</p> <p>Sea transportation: IMDG / IMO not classified</p> <p>Air transportation: ICAO / IATA not classified</p> <p>U.N.-number: not assigned</p> <p>Packaging group: not assigned</p>	
15.0	Regulatory information	No regulation and classification according to EEC directives necessary. No labelling with hazard symbols. Aquatic toxicity: 1 (=German water hazard classification)	
16.0	Further Information	The information given in this safety data sheet is for safety purpose only. It is given in good faith and based on the best knowledge and experience of the company at the date of issuing. The company is not responsible for damages caused by the use of the product in applications for which it was not intended or for conditions of use outside its control. All data refer to the product in the delivering condition. Former versions of this safety data sheet are no longer valid.	

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