

DESCRIPTION:

Omega 33 is a special diester synthetic compound with an exceptionally high flashpoint. Additives include the unique "Megalite" family of supplements, ensuring extreme temperature resistance up to 315°C (600°F) - and for short periods of exposure. Special viscosity improvers using hybridic polymers have been developed to extend the service life of this lubricant.

Omega 33 is a revolutionary lubricant in that it is potentially the first lubricant to utilize the capillary system of film formation. This means that the lubricant remains stable at all times irregardless of temperature fluctuations, which has been the major obstacle with all ordinary greases. The high temperature resistance of Omega 33 is nearly double that of ordinary greases.

RELIABILITY:

Omega 33 stays in position after application. Its unique design causes it to form an outer heatresistant coating while the inner lubricant continues to perform under extreme heat conditions.

EQUIPMENT LASTS LONGER:

Using Omega 33, high temperature equipment usually lasts considerably longer, and runs for substantially longer periods without maintenance.

SUPPLEMENTS:

Foam Inhibitors	Yes
Calcinated Hydro- Carbons	Yes
Carbonitic Black	Yes
Climatic Adjustors	Yes
Extreme Pressure Properties	Yes
Molybdenum Disulphide	Yes
Nuclear Reactor Stability	Yes
Oxidation Resistors	Yes
Mechanical Stability Improvers	Yes
Shear Stability Improvers	Yes
Rust Inhibitors	Yes

APPLICATIONS:

Omega 33 is primarily a high temperature-resistant lubricant engineered for high temperature exposure conditions. Kilns and surface baking operations, food processing, steam pumps, babbitt bearings, tooling equipment, foundry machines and equipment, autoclaves, chemical processing, laboratory work, surgical sterilization equipment - there is almost no extreme temperature condition that Omega 33 cannot handle.

SPECIAL TEXTURE IMPROVERS:

Omega 33 consists of fine fibre texture improvers which come from a breakaway substance called "carbonitic black". This ensures that the texture remains static during severe temperature operations by encapsulation in an unbreakable, impenetrable outer skin.



 OPIM33-1
 Ver. 2.0
 Rev. 4.0

 Rev. Date: 21 Sept., 2020
 Reference: CKL

TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT
Base Fluid: -		
Specific Gravity @ 15°C (60°F)	D-1298	0.9365
Viscosity @ 100°F SUS	D-88	3000-3500
Viscosity @ 210°F, SUS	D-88	250
Viscosity Index	D2270	140
Flash Point, COC, °C (°F)	D-92	316(600)
Dropping Point, °C (°F)	D-2265	None
Worked Penetration @ 77°F, 150 gm cone	D-217	275-305
Timken OK Load, Lbs. min.	D-2509	40
Rust Prevention	D-1743	# 1 Rating
Oxidation Stability, p.s.i. loss in 100 hours	D-942	5
Water Washout,% Loss after 2 hrs @ 175°F	D-1264	4
Roll Stability, Point Change	D-1831	10
Lubricant Stability	-	# 1 Rating
NLGI Grade	-	# 2
Operating Temperature Range, °C (°F)	-	-20 to 232 (-1 to 450)
Color		Black

The characteristics given above are typical of current production only and slight batch to batch variations should be expected.





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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE **COMPANY/UNDERTAKING** 1.1. Product identifier Omega 33 Product name: Container size: 5 kg, 15 kg 1.2. Relevant identified uses of the substance or mixture and uses advised against Application: High temperature grease. 1.3. Details of the supplier of the safety data sheet Supplier: GB importer: Distributed by: Trust Engineering Company Manufacturer: ITW PP & F Korea Limited 9 Abdel Hamid El Deeb Street 13th Fl., Unit B, PAX Tower Alexandria, 21613 Egypt T: +(20)3 5822779 T: +(20)10 1223554 609 Eonju-ro, Gangnam-Gu Seoul, Korea 06108 5 Ahmed Shaker Street Fourth Zone Tel:+82-2-2088-3560 Nasr City, 11586 Egypt Fax:+82-2-513-3567 T:+(20)2 26909965 T: +(20)10 1223553 magna@magnagroup.com www.magnagroup.com info@trustengineering-eg.com www.trustengineering-eg.com Further information can be obtained from: magna@magnagroup.com 1.4. Emergency telephone number Emergency telephone: Call a Poison Center, emergency number or doctor/physician. NHS: 111 **SECTION 2: HAZARDS IDENTIFICATION** 2.1. Classification of the substance or mixture CLP: The product is not classified. 2.2. Label elements The substance/mixture does not meet the criteria for classification, but the following labelling must be applied: Safety data sheet available on request. 2.3. Other hazards PBT/vPvB: This product does not contain any PBT or vPvB substances. Other: Prolonged or repeated contact with skin may cause redness, itching, irritation,

eczema, skin cracking and oil acne. The harmful effects may increase in used grease.

Greases are generally hazardous to the environment.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

All substances in the product are either registered or exempt from registration under REACH. Only classified substances above threshold limits or substances with an exposure limit are shown.

CLP:

<u>%:</u>	CAS-No.:	EC No.:	REACH Reg. No:	Chemical name:	Hazard classification:	Notes:
20-25	9003-27-4		-	Polyisobutene	Aquatic Chronic 4;H413	
<5	68411-46-1	270-128-1	-	Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene	Aquatic Chronic 3;H412	

References: The full text for all hazard statements is displayed in section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation:	Move into fresh air and keep at rest. In case of persistent throat irritation or coughing: Seek medical attention and bring these instructions.		
<u>Skin contact:</u>	Remove contaminated clothing immediately and wash skin with soap and water. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions.		
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.		
Ingestion:	Immediately rinse mouth and drink 1-2 glasses of water. Keep person under observation. If uncomfortable: Transportation to hospital. Bring along these instructions.		
4.2. Most important symptoms and effects, both acute and delayed			
Symptoms/effects:	See section 11 for more detailed information on health effects and symptoms.		
4.3. Indication of any immediate medical attention and special treatment needed			

<u>Medical attention/treatments:</u> Treat symptomatically.

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SECTION 5: FIREFIGHTING MEASURES

SECTION 5. TIKEI IGHTIN	
5.1. Extinguishing media	
Extinguishing media:	Small fires: Extinguish with carbon dioxide or dry powder. Larger fires: Extinguish with foam, carbon dioxide or dry powder. Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising fr	om the substance or mixture
Specific hazards:	During fire, gases hazardous to health may be formed.
5.3. Advice for firefighters	
Protective equipment for fire- fighters:	Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.
SECTION 6: ACCIDENTAL	RELEASE MEASURES
6.1. Personal precautions, pro	tective equipment and emergency procedures
Personal precautions:	Avoid contact with skin and eyes. Follow precautions for safe handling described in this safety data sheet.
6.2. Environmental precaution	<u>8</u>
Environmental precautions:	Do not discharge into drains, water courses or onto the ground.
6.3. Methods and material for	containment and cleaning up
Methods for cleaning up:	Absorb spillage with oil-absorbing material. Clean contaminated area with oil- removing material.
6.4. Reference to other section	ns
References:	For personal protection, see section 8. For waste disposal, see section 13

For waste disposal, see section 13.

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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Safe handling advice:	Observe good chemical hygiene practices. Avoid prolonged and repeated contact with grease, particularly used grease. Always remove grease with soap and water or skin cleaning agent, never use organic solvents.
Technical measures:	Work practice should minimise contact.
Technical precautions:	When working with heated grease, mechanical ventilation may be required.
7.2. Conditions for safe storage	ge, including any incompatibilities
Technical measures for safe storage:	No special precautions.
Storage conditions:	Store in tightly closed original container in a dry, cool and well-ventilated place.
7.3. Specific end use(s)	

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

This/these substance(s) is/are subject to an Occupational Exposure Limit and may present an inhalation risk if present as dust or fume. This is not relevant to the current physical state of the product, which is not in a respirable form.

Occupational exposure limits:

CAS-No.:	Chemical name:	<u>As:</u>	Exposure limits:	Type:	Notes:	References:
-	Carbon black	-	3.5 mg/m3	TWA	-	EH40
		-	7 mg/m3	STEL	15min	
-	Molybdenum insolubl compounds	e Mo	10 mg/m3	TWA	-	EH40
		-	20 mg/m3	STEL	15min	
Notes:		EH40: EH40/2005.				
<u>8.2. Exposur</u>	e controls					
Engineering		•	ventilation. When working required. Provide access fatty cream.		-	
<u>Personal pro</u>	tection:	-	n equipment should be ch iscussion with the supplie		-	
Respiratory e	equipment:		ate ventilation use suitab rticle filter, type P2.	le respirato	r. Use res	piratory
Hand protect	<u>ion:</u>	The most suitable	ear protective gloves. glove must be chosen in inform about the breakthr			
Eye protectic	on:	Risk of contact: W	ear goggles/face shield.			
Skin protectio	on:	Wear apron or pro	tective clothing in case of	contact.		
<u>Hygiene mea</u>	asures:	Wash hands after	handling. Change contan	ninated clot	hing.	
<u>Environment</u> <u>Controls:</u>	al Exposure	Not available.				

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Grease.
Black.
Almost odourless.
Not available.
Not available.
Not determined.
Not available.
Not applicable.
Not available.
~0.9
Insoluble in water.
Not available.
Not available.

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SECTION 10: STABILITY	AND REACTIVITY	
10.1. Reactivity		
<u>Reactivity:</u>	Not reactive.	
10.2. Chemical stability		
<u>Stability:</u>	Stable under normal temperature conditions.	
10.3. Possibility of hazardous	s reactions	
10.4. Conditions to avoid		
Conditions to avoid	Heat, sparks, flames. Temperatures above: >250 °C	
10.5. Incompatible materials		
Incompatible materials:	Strong oxidising substances.	
10.6. Hazardous decompositi	10.6. Hazardous decomposition products	
Hazardous decomposition products:	None known.	

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicolog	ical effects
Acute Toxicity (Oral):	Based on available data, the classification criteria are not met.
Acute Toxicity (Dermal):	Based on available data, the classification criteria are not met.
Acute Toxicity (Inhalation):	Based on available data, the classification criteria are not met.
Skin Corrosion/Irritation:	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
<u>Respiratory or skin</u> sensitisation:	Based on available data, the classification criteria are not met.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive Toxicity:	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.
Inhalation:	Inhalation of oil mist or vapours formed during heating of the product will irritate the respiratory system and provoke coughing.
Skin contact:	Degreasing. Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals.
Eye contact:	Direct contact may irritate.
Ingestion:	May irritate and cause malaise.
Specific effects:	Prolonged or repeated contact with used grease may cause serious skin diseases, such as dermatitis. The harmful effects may increase in used grease.

11.2. Information on other hazards

Endocrine disrupting	The product does not contain any substance identified as having endocrine
properties:	disrupting properties.

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity	
Ecotoxicity:	Greases are generally hazardous to the environment. The product contains a substance which may cause long term adverse effects in the aquatic environment.
12.2. Persistence and degrad	Jability
<u>Degradability:</u>	The product is expected to be slowly biodegradable.
12.3. Bioaccumulative potent	ial
Bioaccumulative potential:	No data available on bioaccumulation.
12.4. Mobility in soil	
Mobility:	No data available.
12.5. Results of PBT and vPv	/B assessment
<u>PBT/vPvB:</u>	This product does not contain any PBT or vPvB substances.
12.6. Endocrine disrupting pro	operties
Endocrine disrupting properties:	The product does not contain any substance identified as having endocrine disrupting properties.
12.7. Other adverse effects	
Other adverse effects:	None known.
SECTION 13: DISPOSAL	CONSIDERATIONS
13.1. Waste treatment metho	ds

Dispose of waste and residues in accordance with local authority requirements. Waste is classified as hazardous waste.

Waste from residues: EWC-code: 20 01 26

<u>Contaminated packaging:</u> Dispose of contaminated packings as residue.

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SECTION 14: TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/AND/RID).

14.1. UN number

UN-No:

14.2. UN proper shipping name

Proper Shipping Name:

14.3. Transport hazard class(es)

Class:

14.4. Packing group

<u>PG:</u>

14.5. Environmental hazards

Marine pollutant:

Environmentally Hazardous

substance:

14.6. Special precautions for user

<u>Special precautions:</u> None known.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk: Not relevant.

SECTION 15: REGULATORY INFORMATION

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

National regulation:	UK Statutory Instruments, 2021 No. 904, CONSUMER PROTECTION ENVIRONMENTAL PROTECTION HEALTH AND SAFETY. The REACH etc. (Amendment) Regulations 2021. 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 with amendments. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019 No. 720), as amended
	 720), as amended. EH40/2005, Workplace exposure limits 2005, with amendments. The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).

15.2. Chemical Safety Assessment

CSA status:

No chemical safety assessment has been carried out.

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SECTION 16: OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

The following sections contain revisions or new statements: 1, 2, 3, 4, 6, 7, 9, 10, 11, 12, 13, 15, 16.

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Abbreviations and acronyms used in the safety data sheet:	CSA= Chemical Safety Assessment. PBT = Persistent, Bioaccumulative and Toxic. vPvB = very Persistent and very Bioaccumulative.
Additional information:	Classification according to Regulation (EC) No. 1272/2008: Calculation method.
Wording of H-statements:	
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Made by DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark. www.dhigroup.com.