

# MATERIAL SAFETY DATA SHEET

## TIMKEN PERFORMANCE RACING GREASE

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>TRADE NAME</b>	TIMKEN PERFORMANCE RACING GREASE
<b>PRODUCT NO.</b>	GR246
<b>SUPPLIER</b>	The Timken Corporation 1835 Dueber Ave. P.O. Box 6930 Canton, OH 44706-0930 USA
<b>EMERGENCY CONTACT</b>	INFOTRAC EMERGENCY RESPONSE HOTLINE 1-800-535-5053 (US & CANADA) 1-352-323-3500
<b>DATE OF LAST ISSUE</b>	January 7, 2009

### 2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	WEIGHT
1-DECENE, HOMOPOLYMER, HYDROGENATED (COMMON NAME: POLYALPHAOLEFINS)	68037-01-4	60-80 %
LITHIUM COMPLEX THICKENER	Proprietary	10-30 %
FATTY ACIDS, C18-UNSATD., DIMERS, POLYMERS W/ 2-ETHYLHEXANOL & NEOPENTYL GLYCOL	68552-19-2	5-10 %
*ANTIMONY DIALKYLDITHIOCARBAMATE	Proprietary	1-2 %
*ZINC, BIS(DIPENTYLCARBAMODITHIOATO-S,S'), (T-4) -	15337-18-5	0.1-1 %

\* This chemical(s) is hazardous according to OSHA/WHMIS criteria

#### COMPOSITION COMMENTS

Chemical ingredients not regulated by OSHA or SARA are treated confidentially. Refer to section eight for exposure limits on ingredients.

### 3. HAZARDS IDENTIFICATION

<b>HEALTH HAZARDS, GENERAL</b>	Exposure to vapors generated at high temperatures may cause respiratory irritation.
<b>SENSITIZATION</b>	No known information.
<b>CARCINOGENICITY</b>	IARC: Not listed as a Group 1, 2A, or 2B agent. OSHA: Not regulated. NTP: Not listed.

<b>TERATOGENICITY</b>	No known information.
<b>HEALTH WARNINGS</b>	INHALATION. Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product. SKIN CONTACT. Repeated or prolonged contact can result in drying of the skin. EYE CONTACT. Slightly irritating. INGESTION. Can cause stomach ache and vomiting. Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.
<b>ROUTE OF ENTRY</b>	Inhalation. Skin and/or eye contact. Ingestion.
<b>MEDICAL SYMPTOMS</b>	MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not determined

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#### 4. FIRST AID MEASURES

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<b>INHALATION</b>	Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor of hot product, immediately remove from source of exposure. Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. Get medical attention if any discomfort continues.
<b>EYES</b>	Rinse the eye with water immediately. Continue to rinse for at least 15 minutes. Contact physician if discomfort continues.
<b>SKIN</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>INGESTION</b>	DO NOT INDUCE VOMITING! Get medical attention immediately!

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#### 5. FIRE FIGHTING MEASURES

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<b>FLASH POINT (°C)</b>	> 232 (450°F) Cd OC (Cleveland open cup).
<b>FLAMMABILITY LIMIT - LOWER(%)</b>	N/D
<b>FLAMMABILITY LIMIT - UPPER(%)</b>	N/D
<b>EXTINGUISHING MEDIA</b>	Use: Carbon dioxide (CO <sub>2</sub> ). Dry chemicals, sand, dolomite etc. Alcohol resistant foam. Water spray, fog or mist.
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	Use water to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures. Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS</b>	Pressure will increase in over heated, closed containers.
<b>HAZARDOUS COMBUSTION PRODUCTS</b>	Oxides of: Carbon. Sulfur.
<b>PROTECTIVE MEASURES IN CASE OF FIRE</b>	Self-contained breathing equipment and chemical resistant clothing recommended.

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#### 6. ACCIDENTAL RELEASE MEASURES

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<b>PERSONAL PRECAUTIONS</b>	Minimize skin contact.
<b>PRECAUTIONS TO PROTECT THE ENVIRONMENT</b>	Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable government regulations.
<b>SPILL CLEAN-UP PROCEDURES</b>	Contain spill. Absorb small amounts. Collect and return large amounts to shipping container. Rinse area with water.

## 7. HANDLING AND STORAGE

<b>HANDLING PRECAUTIONS</b>	Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Do not reuse container. Keep lid closed when not in use. Do not store or mix with strong oxidizers. Avoid spilling, skin and eye contact. Eye wash and emergency shower must be available at the work place.
<b>STORAGE PRECAUTIONS</b>	Store separate from strong acids and oxidizers. Keep away from heat, sparks and open flame.
<b>STORAGE CRITERIA</b>	Chemical storage.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

COMPONENT	STD	TWA	STEL	TWA	STEL
ANTIMONY DIALKYL DITHIOCARBAMATE	OSHA			0.5 mg/m <sup>3</sup> as Sb	
	ACGIH			0.5 mg/m <sup>3</sup> as Sb	

### PROTECTIVE EQUIPMENT



<b>ENGINEERING CONTROLS</b>	Use engineering controls to reduce air contamination to permissible exposure level.
<b>VENTILATION</b>	No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.
<b>RESPIRATORS</b>	No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.
<b>PROTECTIVE GLOVES</b>	Chemical resistant gloves recommended to prevent prolonged or repeated contact.
<b>EYE PROTECTION</b>	Use eye protection.
<b>PROTECTIVE CLOTHING</b>	Wear appropriate clothing to prevent repeated or prolonged skin contact.
<b>HYGIENIC WORK PRACTICES</b>	Wash at the end of each work shift and before eating, smoking and using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE/PHYSICAL STATE</b>	Grease.		
<b>COLOR</b>	Red.		
<b>ODOR</b>	Mild (or faint). Petroleum.		
<b>SOLUBILITY DESCRIPTION</b>	Insoluble in water.		
<b>DENSITY</b>	0.87	<b>Temperature (°C)</b>	15.6 (60°F)
<b>VAPOR PRESSURE</b>	< 0.5 mmHg	<b>Temperature (°C)</b>	20 (68°F)
<b>EVAPORATION RATE</b>	< 0.01	<b>Reference</b>	BuAc=1
<b>pH-VALUE, CONC. SOLUTION</b>	N/A		

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## 10. STABILITY AND REACTIVITY

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<b>STABILITY</b>	Normally stable.
<b>CONDITIONS TO AVOID</b>	Avoid contact with acids and oxidizing substances.
<b>HAZARDOUS POLYMERIZATION</b>	Will not occur.
<b>POLYMERIZATION DESCRIPTION</b>	Not applicable
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Oxides of: Carbon. Sulfur.

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## 11. TOXICOLOGICAL INFORMATION

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<b>TOXICOLOGICAL INFORMATION</b>	No experimental toxicological data on the preparation as such is available.
<b>COMPONENT</b>	<b>1-DECENE, HOMOPOLYMER, HYDROGENATED (COMMON NAME: POLYALPHAOLEFINS)</b>
<b>TOXIC DOSE - LD 50</b>	> 2,000 mg/kg (oral rat)
<b>TOXIC DOSE - LD 50 SKIN</b>	> 2,000 mg/kg (skn rbt)
<b>TOXIC CONC. - LC 50</b>	> 5 mg/l
<b>COMPONENT</b>	<b>LITHIUM COMPLEX THICKENER</b>
<b>TOXIC DOSE - LD 50</b>	> 5000 mg/kg (oral rat)
<b>TOXIC DOSE - LD 50 SKIN</b>	> 3000 mg/kg (skn rbt)
<b>TOXIC CONC. - LC 50</b>	N/A.

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## 12. ECOLOGICAL INFORMATION

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<b>ECOLOGICAL INFORMATION</b>	There is no ecological data on the product itself.
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### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS** Spilled material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations.

### 14. TRANSPORT INFORMATION

**DOT HAZARD CLASS** Not regulated.  
**SEA TRANSPORT NOTES** Not regulated per IMDG.  
**AIR TRANSPORT NOTES** Not regulated per IATA.

### 15. REGULATORY INFORMATION

#### US FEDERAL REGULATIONS

COMPONENT	SARA 302	CERCLA	SARA 313
1-DECENE, HOMOPOLYMER, HYDROGENATED (COMMON NAME: POLYALPHAOLEFINS)	No	No	No
LITHIUM COMPLEX THICKENER	No	No	No
FATTY ACIDS, C18-UNSATD., DIMERS, POLYMERS W/ 2-ETHYLHEXANOL & NEOPENTYL GLYCOL	No	No	No
ANTIMONY DIALKYLDITHIOCARBAMATE	No	***	N010 - Sb
ZINC, BIS(DIPENTYLCARBAMODITHIOATO-S,S'), (T-4) -	No	***	N982 - Zn

#### REGULATORY STATUS

\*\*\* Indicates that no RQ is assigned to this generic or broad class, although the class is a CERCLA hazardous substance. See 50 Federal Register 13456 (April 4, 1985). Values in Section 313 column represent Category Codes for reporting under Section 313.

#### CLEAN AIR ACT

**SARA HAZARD CATEGORIES** None

#### US STATE REGULATIONS

COMPONENT	CA	MA	FL	MN	NJ	PA	RI
ANTIMONY DIALKYLDITHIOCARBAMATE				Yes		EH	
ZINC, BIS(DIPENTYLCARBAMODITHIOATO-S,S'), (T-4) -						EH	

#### WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**CONTROLLED PRODUCT CLASSIFICATION** Not a controlled product.

COMPONENT	GLOBAL INVENTORIES								
	CAN	US	EU	AUS	JAP	KOR	PHLP	CHN	
ZINC, BIS(DIPENTYLCARBAMODITHIOATO-S,S'), (T-4) -	NPRI	Yes	EINECS	Yes	Yes	Yes	Yes	Yes	
1-DECENE, HOMOPOLYMER, HYDROGENATED (COMMON NAME: POLYALPHAOLEFINS)	DSL	Yes	Polymer	Yes	Yes	Yes	Yes	Yes	
LITHIUM COMPLEX THICKENER	DSL	Yes	EINECS	No	No	No	No	No	
FATTY ACIDS, C18-UNSATD., DIMERS, POLYMERS W/ 2-ETHYLHEXANOL & NEOPENTYL GLYCOL	DSL	Yes	Polymer	Yes	No	Yes	No	Yes	
ANTIMONY DIALKYL DITHIOCARBAMATE	NPRI	Yes	EINECS	Yes	Yes	Yes	Yes	Yes	

All components of this product comply with new substance notification requirements under the Canadian Environmental Protection Act (CEPA).

## 16. OTHER INFORMATION

### NFPA-HMIS HAZARD RATING

**NFPA-HMIS: HEALTH** Irritation, minor residual injury (1) - HMIS/NFPA

**NFPA-HMIS: FLAMMABILITY** Burns only if pre-heated (1) - HMIS/NFPA

**NFPA-HMIS: REACTIVITY** Normally Stable (0) - HMIS/NFPA

**PERSONAL PROTECTION INDEX** B - Safety Eyewear and Gloves

### PREPARED BY

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### DISCLAIMER

While the information and recommendations set forth herein are believed to be accurate as of the date thereof, the company makes no warranty with respect thereto and disclaims all liability from reliance therein.

\* Information revised since previous MSDS version