

# **TECHNICAL DATA SHEET**

RED "N" TACKY

# RED 'N' TACKY GREASE

PRODUCT # 10005, 10027, 10028, 10029, 10574 NLGI GC-LB

TEST	ASTM	TYPICAL
Thickener Type		Lithium Complex
Texture		Smooth, Tacky
Color		Bright Red
Penetration		-
0 Strokes	<b>D-217</b>	280
60 Strokes	<b>D-217</b>	280
10,000 Strokes	D-217	295
Timken OK Load, Ibs	D-2509	60
Rust Prevention	<b>D-1743</b>	Pass
Water Wash-Out, % Loss	<b>D-1264</b>	
Test % Loss @ 175°F		< <b>5.0 Typ.</b>
Four Ball E.P. Test	<b>D-2596</b>	
Weld Point, Kg		315
Load Wear Index, Kgf		40
Four Ball Wear Test D, mm	<b>D-2266</b>	.60 Max
<b>Oil Separation, Mass % Loss</b>	<b>D-1742</b>	6 Max
Wheel Bearing Leakage		
Test, 60 mph (660 RPM) - Grams Lea	kage	<b>10 Max</b>
Oxidation Stability	<b>D-942</b>	<b>10 Max</b>
Dropping Point, °F	D-2265	540
Base Oil Viscosity	<b>D-445</b>	
SUS @ 100°F		1000
100°C cSt		18
Viscosity Index		86 Min.

Lucas Red 'N' Tacky Grease is a smooth, tacky, red, lithium complex grease fortified with rust and oxidation inhibitors. This product has good water resistance and washout properties. It has excellent mechanical stability and storage life. It is able to withstand heavy loads for extended periods of time. It can be used in many agricultural, automotive and industrial applications.

Lucas Red 'N' Tacky Grease is fortified with a high degree of extreme pressure additives that give it a TRUE Timken load much higher than other greases of this type. It's especially good for sliding surfaces and open gears.

# SAFETY DATA SHEET

Lucas Red "N" Tacky NLGI # 2 grease



Section 1. Identification	
GHS product identifier	: Lucas Red "N" Tacky NLGI # 2 grease
Other means of identification	: Not available.
Product number	: 10005, 10027, 10028, 10029, 10574
Relevant identified uses of Engine oil.	f the substance or mixture and uses advised against
Supplier's details	: Lucas Oil Products, Inc 302 North Sheridan Street Corona, California 92880-2067 Toll Free: (800) 342-2512 Tel: (951) 270-0154 Fax: (951) 270-1902 Website: www.LucasOil.com
Emergency telephone number (with hours of operation)	: (951) 493-1149 (951) 847-5949 Markn@lucasoil.com
	7:004 M to 5:00D M. Mondoy thru Fridoy

# 7:00A.M. to 5:00P.M. Monday thru Friday

# Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the	: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
substance or mixture	AQUATIC HAZARD (LONG-TERM) - Category 3
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	
nazaru statements	: Causes serious eye damage. Harmful to aquatic life with long lasting effects.
Precautionary statements	
General	: Read label before use. Keep out of reach of children. If medical advice is needed,
	have product container or label at hand.
Prevention	: Wear eye or face protection. Avoid release to the environment. Wash hands
	thoroughly after handling.



# Section 2. Hazards identification

Response	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
Storage	: Not applicable.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Hazards not otherwise classified	: None known.

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

### **CAS number/other identifiers**

CAS number	: Not applicable.
Product code	: Not available.

Ingredient name	%	CAS number
Zinc Alkyldithiophosphate	1 - 5	68649-42-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

Description of necessary first aid measures		
Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.	
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.	
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.	



# Section 4. First aid measures

Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptom	ns/effects, acute and delayed
Potential acute health	effects
Eye contact	: Causes serious eye damage.
Inhalation	<ul> <li>May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.</li> </ul>
Skin contact	: No known significant effects or critical hazards.
Ingestion	: May cause burns to mouth, throat and stomach.
<u>Over-exposure signs/s</u>	<u>ymptoms</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: No specific data.





# Section 5. Fire-fighting measures

Special protective actions<br/>for fire-fighters: No special precaution is required.Special protective<br/>equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing<br/>apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Methods and materials for co	ntainment and cleaning up
Small spill	: Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

### Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.



# Section 8. Exposure controls/personal protection

### Control parameters

### **Occupational exposure limits**

None.

Appropriate engineering controls Environmental exposure controls	f user operations generate dust, fumes, gas, vapor or mist, use process end ocal exhaust ventilation or other engineering controls to keep worker exposi airborne contaminants below any recommended or statutory limits. Emissions from ventilation or work process equipment should be checked to they comply with the requirements of environmental protection legislation.	ure to
Individual protection measur		
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated of Wash contaminated clothing before reusing. Ensure that eyewash stations a showers are close to the workstation location.	clothing.
Eye/face protection	Safety eyewear complying with an approved standard should be used when assessment indicates this is necessary to avoid exposure to liquid splashes, gases or dusts. If contact is possible, the following protection should be wor the assessment indicates a higher degree of protection: chemical splash go or face shield. If inhalation hazards exist, a full-face respirator may be requi	mists, n, unless oggles and/
Skin protection		
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard worn at all times when handling chemical products if a risk assessment indic necessary. Considering the parameters specified by the glove manufactures during use that the gloves are still retaining their protective properties. It sho noted that the time to breakthrough for any glove material may be different for glove manufacturers. In the case of mixtures, consisting of several substant protection time of the gloves cannot be accurately estimated.	cates this is r, check ould be or different
Body protection	Personal protective equipment for the body should be selected based on the performed and the risks involved and should be approved by a specialist bef nandling this product.	
Other skin protection	Appropriate footwear and any additional skin protection measures should be based on the task being performed and the risks involved and should be app specialist before handling this product.	
Respiratory protection	Use a properly fitted, particulate filter respirator complying with an approved a risk assessment indicates this is necessary. Respirator selection must be known or anticipated exposure levels, the hazards of the product and the sa imits of the selected respirator.	based on

# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Solid. [Grease.]
Color	: Red.
Odor	: Mild. Petroleum oil.
Odor threshold	: Not available.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: Not available.

Tel : +1-888-GHS-7769 (447-7769) / +1-450-GHS-7767 (447-7767) www.kmkregservices.com www.askdrluc.com www.ghssmart.com



# Section 9. Physical and chemical properties

Flash point	: Not available.
Burning time	: Not available.
Burning rate	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 0.9
Solubility	: Negligible at 25°C
Solubility in water	: 0 g/l
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
SADT	: Not available.
Viscosity	: Kinematic (100°C (212°F)): 0.19 cm²/s (19 cSt)

# Section 10. Stability and reactivity

Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Incompatible materials	: Reactive or incompatible with the following materials: strong oxidizers.
Conditions to avoid	: Excessive heat.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Chemical stability	: The product is stable.
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

# Section 11. Toxicological information

### Information on toxicological effects

### Acute toxicity

There is no data available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Zinc Alkyldithiophosphate	Eyes - Irritant	Rabbit	-	-	-

## Sensitization

Respiratory

Skin

- : There is no data available.
- : There is no data available.





# Section 11. Toxicological information

Mutagenicity	
There is no data available.	
<u>Carcinogenicity</u>	
There is no data available.	
Reproductive toxicity	
There is no data available.	
<u>Teratogenicity</u>	
There is no data available.	
<u>Specific target organ toxici</u>	t <u>y (single exposure)</u>
There is no data available.	
Specific target organ toxici	t <u>y (repeated exposure)</u>
There is no data available.	
Aspiration hazard	
There is no data available.	
Information on the likely routes of exposure	: Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects	
Eye contact	<ul> <li>Causes serious eye damage.</li> </ul>
Inhalation	: May give off gas, vapor or dust that is very irritating or corrosive to the respiratory
innalation	system.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: May cause burns to mouth, throat and stomach.
	vsical, chemical and toxicological characteristics
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
	cts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
<u>Long term exposure</u>	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
Potential chronic health eff	<u>ects</u>
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.



# Section 11. Toxicological information

**Fertility effects** 

: No known significant effects or critical hazards.

### Numerical measures of toxicity

### Acute toxicity estimates

There is no data available.

# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Zinc Alkyldithiophosphate	Acute EC50 1 to 5 mg/L	Algae	96 hours
	Acute EC50 1 to 1.5 mg/L	Crustaceans	48 hours
	Chronic LC50 1 to 5 mg/L	Fish	96 hours

### Persistence and degradability

There is no data available.

### **Bioaccumulative potential**

There is no data available.

### **Mobility in soil**

Soil/water partition coefficient (Koc) : There is no data available.

### Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

# Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.





# Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ			
UN number	Not regulated.	Not regulated.	Not regulated.			
UN proper shipping name	-	-	-			
Transport hazard class(es)	-	-	-			
Packing group	-	-	-			
Environmental hazards	No.	No.	No.			
Additional information	-	-	-			

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

# Section 15. Regulatory information

Clean Air Act Section 112 (b) Hazardous Air	<ul> <li>TSCA 8(a) PAIR: Zinc Alkyldithiophosphate TSCA 8(a) CDR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 307: Zinc Alkyldithiophosphate</li> <li>Not listed</li> </ul>
(b) Hazardous Air	United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 307: Zinc Alkyldithiophosphate
(b) Hazardous Air	Clean Water Act (CWA) 307: Zinc Alkyldithiophosphate
(b) Hazardous Air	
(b) Hazardous Air	: Not listed
Pollutants (HAPs)	
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
SARA 302/304	
Composition/information or	n ingredients
No products were found.	

### **SARA 304 RQ**

: Not applicable.



# Section 15. Regulatory information

## SARA 311/312

### Classification

: Immediate (acute) health hazard

**Composition/information on ingredients** 

Name		Fire hazard	Sudden release of pressure		(acute)	Delayed (chronic) health hazard
Zinc Alkyldithiophosphate	1 - 5	No.	No.	No.	Yes.	No.

### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	Zinc Alkyldithiophosphate	68649-42-3	1 - 5
Supplier notification	Zinc Alkyldithiophosphate	68649-42-3	1 - 5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations	
Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	<ul> <li>The following components are listed: Distillates (petroleum), hydrotreated heavy naphthenic; Distillates (petroleum), solvent-dewaxed heavy paraffinic; Zinc Alkyldithiophosphate</li> </ul>
Pennsylvania	: The following components are listed: Zinc Alkyldithiophosphate
<u>California Prop. 65</u>	
No products were found.	
International regulations	
International lists	<ul> <li>Australia inventory (AICS): All components are listed or exempted.</li> <li>China inventory (IECSC): All components are listed or exempted.</li> <li>Japan inventory: Not determined.</li> <li>Korea inventory: All components are listed or exempted.</li> <li>Malaysia Inventory (EHS Register): Not determined.</li> <li>New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.</li> <li>Philippines inventory (PICCS): All components are listed or exempted.</li> <li>Taiwan inventory (CSNN): Not determined.</li> </ul>
Chemical Weapons Convention List Schedule I Chemicals	: Not listed
Chemical Weapons Convention List Schedule II Chemicals	: Not listed
Chemical Weapons Convention List Schedule III Chemicals	: Not listed







# Section 16. Other information

### Hazardous Material Information System (U.S.A.)

### Health: 2 \* Flammability: 0 Physical hazards: 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

### Health: 2 Flammability: 0 Instability: 0

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### **History**

Date of issue mm/dd/yyyy Version Revised Section(s)	:	02/15/2014 1 Not applicable.
Prepared by		KMK Regulatory Services Inc.
Key to abbreviations	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

