

MATERIAL SAFETY DATA SHEET
RELSTAR HUBGUARD EXCEL GREASE

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Revision No. 01

Date: 14.08.2011

1. Product and Company identification

Product Name	: RELSTAR HUBGUARD ULTRA GREASE
Product Description	: Mineral Base grease with additives
Synonyms	: Hydrocarbons
C.A.S. Number	: Not applicable
Hazchem Number	: Not applicable
Product Application	: For Wheel Bearing and Industrial Applications Not Under Load
Company Name	: Reliance Petro Marketing Ltd. 5th Floor, Court House, Lokmanya Tilak Marg, Dhobi Talao, Mumbai – 400 002, India
Emergency Number of the Company	: +91 1800 223023 (Toll Free) / +91 22 60003111
E – Mail	: customerservice.lubricants@ril.com

2. Composition / information on ingredients

PREPARATION

Chemical nature:	Petroleum –derived product made from refined oils with PCA content measured by IP 346 method is < 3 %
Ingredients contributing to hazards:	2.0% LiOH
Impurities contributing to Hazards:	None to our knowledge, in normal use

3. Hazard identification

Most important hazards:	
Adverse human health effects :	Under normal conditions of use, the mineral oils and ingredients used in this product present no risk of acute intoxication The product contains no eye or skin irritants and is not considered to be allergenic.
Environmental effects :	Experiments with similar virgin products indicate little danger for aquatic or land living organisms and intrinsic biodegradability
-physical and chemical hazards :	No specific risk of fire or explosion
Specific hazards :	None to our knowledge, in normal use
Emergency overview :	If the skin is exposed to high pressure spray, the product may enter the human organism. In all such cases the affected person must be taken to hospital, even if no sign of injury can be detected.

2. First – aid measures

IN CASE OF SERIOUS MANIFESTATIONS CALL IN A DOCTOR OR EMERGENCY MEDICAL CARE

In case of :	
-Inhalation :	In case of exposure to heavy concentration of vapour, fumes or spray, transport the person into fresh air, keep warm and allow to rest.



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	Immediately remove all soiled or stained clothing. Wash the affected area immediately and repeatedly with soap and water.
-Contact with the skin :	If the product comes into contact with the skin, wash the affected area immediately and repeatedly with soap and water. If the skin is exposed to high – pressure spray, the product may enter the human organism. In all such cases the affected person must be taken to hospital, even if no sign of injury can be detected.
-Contact with the eyes :	Keep eyes open and rinse immediately and repeatedly with water for at least 15 minutes, and consult a specialist.
-Ingestion :	Generally no special treatment is necessary. Do not induce vomiting
Instruction for the doctor:	In case of incidents, treat symptoms as required

3. Fire- fighting measures

Flash point:	Not applicable
Fire extinguishers ;	
-suitable	Foam, CO2, powder
-not suitable	Water under strong pencil like jet forbidden
Specific hazards :	Incomplete combustion and thermals is produce more or less toxic has as such as CO, CO2, various hydrocarbons, aldehydes, and soot
	Firefighter protection :An insulated breathing apparatus must be worn in confined premises with heavy concentration of fumes and gases

4. Accidental release measures

Precaution for personal protection; Hydrocarbon-proof clothing, gloves, goggles and boots should be worn, as applicable. Surfaces on which the product has been spilled may become slippery.

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Precautions for environment protection Plan the installations and take all necessary measures to prevent water and ground pollution

Set up sewer protection to reduce the risk of pollution through accidental release.

Clean –up methods:

- Recovery:
skimmers

Use medical means such as pumps and

Contain and collect the spilled product with sand or any other inert material. Do not discard into drains or sewers.

- Disposal :
collector.

Remit the soiled material to an authorized waste

5. Handling and storage

HANDLING

- Technical measures :
- Prevention of user exposure

Provide adequate ventilation in case of the potential formation of vapour, mist or spray

Keep away from flammable material; keep away from food and beverages

Prevention of fire and explosion

Product-impregnated cloths and paper or material used to mop up spills can constitute a fire hazard. Do not allow these to accumulate in a pile.

Discard these with all safety precautions immediately after use

Precautions :

Reduce the hazards by arranging and setting up machinery and equipment so as to avoid accidental spills and splashes on hot machine parts and electrical contacts.

Avoid prolonged or repeated skin contact with the product and product- stained clothing, which may lead to skin rashes and eruptions, particularly in case of open cuts or scratches.



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- Safe handling advice:

Avoid splashes and spills

If the product has been in contact with the skin, wash the affected area immediately and repeatedly with soap and water

Use no abrasives, solvents, or petroleum spirits

Do not use cloths stained with the product to dry hands.

If clothing becomes stained, change immediately

Do not inhale vapours, fumes or mist

Do not eat, drink or smoke while handling the product

Avoid contact with strong oxidizing agents

Use only hydrocarbon-resistant containers, joints, pipes etc.

STORAGE

-Technical measures: Not applicable

- Storage conditions:

-Suitable

Store at room temperature, protected against contact with water an moisture, and away from any source of ignition

Keep containers clearly labelled and closed when not in use

Make the necessary arrangements and take all measures to prevent water and ground pollution

To be avoided

Do not store exposed to the elements



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- | | |
|--------------------------|----------------------------------------------------------------------------------------------|
| - Incompatible products: | Dangerous reaction with strong oxidizing agents |
| -Packaging materials; | |
| -Recommended | Use only hydrocarbon-resistant containers, joints,
Keep in original container if possible |

8. Exposure controls / personal protection

Personal protective equipment

Hand protection ;

Impermeable hydrocarbon –proof gloves

- Eye Protection

Goggles, in case of splashing

Skin and body protection : As required , wear a face mask, hydrocarbon –proof clothing, and safety boots (when handling drums)

Industrial hygiene

Avoid prolonged and repeated contact with the skin
If the product comes into contact with the skin , wash the affected area immediately and repeatedly with soap and water
Use no abrasives, solvents or petroleum spirit
If the product comes into contact with the eyes , keep eyes open and rinse immediately and repeatedly with water for atleast 15 minutes, and consult a specialist

9. Physical and chemical properties

Appearance:

-Physical state:

Homogeneous

-Colour:

Yellowish Brown

Odour:

Characteristic

PH:

Not applicable

Specific temperatures of change in state

Drop Point:

> 180° C

Flash Point of Base Oil used

> 220° C



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Auto-ignition temperature	> 250 C (ASTM E 659). This temperature may be significantly lower under particular conditions (oxidation on high surface areas)
Explosion limits :	Not applicable
Vapour pressure:	Negligible at normal temperature of storage, handling and use
Density :	About 900 kg./m ³ at 15 C
Solubility:	
-in water:	Insoluble and immiscible
- in organic solvents:	Soluble in many common solvents
Other:	
-Penetration:	(60 cycles – 25 C) : (1/10 mm) under ISO 2137 NLGI 3 rang.

10. Stability and Reactivity

Stability	: The product is stable under normal temperature of storage, handling and use.
Dangerous Reactions	: No dangerous reactions known under normal conditions of use.
- Conditions to avoid	: Heat (temperature above Flash Point), sparks, ignition points, flames, static electricity
- Materials to avoid	: Avoid contact with strong oxidizing agent
Dangerous decomposition products	: Incomplete combustion and thermolysis produce more or less toxic gases such as CO, CO ₂ , various hydrocarbons, aldehydes and soot.

11. Toxicological Information

ACUTE TOXICITY / LOCAL EFFECTS

- Inhalation	: Risk is improbable under normal condition of use. Inhalation of concentration of vapors may cause irritation of the upper respiratory system.
- Contact with the skin	: Risk is improbable under normal conditions of use. If the skin is exposed to high pressure spray, the product may enter the human organs. In all such cases the affected person must be taken to hospital, even if no sign of injury can be detected
- Ingestion	: In case of ingestion of small quantities, no important effect observed Ingestion of larger amounts may cause abdominal pain, diarrhea.
- Sensitization	: To our knowledge, the product doesn't induce sensitization



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CHRONIC TOXICITY OR LONG TERM TOXICITY

- Contact with the skin : Characteristic skin affections (oil blisters) may develop, following prolonged and repeated exposure through contact with stained clothing.

11. Ecological information

Mobility :

- Ground :

Given is physical and chemical characteristics, the product generally

Shows little mobility in the ground

- Water :

The product is insoluble ; it floats on water

Persistence and degradability:

Experimental data on the finished product are not available

However, the "mineral oil" portion of the virgin product is intrinsically biodegradable . Particular ingredients may not.

Ecotoxicity :

The virgin product is considered to present to danger

for land-

Growing organisms and little danger for

Aaquatic life.

No data

are currently available for the used product.

12. 13. Disposal considerations

Waste :

- Disposal :

The only method authorised in India is collection by an authorized waste contractor and regeneration or incineration in an approved installation .

Used packaging :

Disposal methods :

Transmit to an authorized waste contractor for disposal



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14. Transport information

INTERNATIONAL REGULATIONS

- | | |
|-------------------------------|----------------|
| - by land (railroad / road) : | Not applicable |
| - by waterway : | Not applicable |
| - by sea : | Not applicable |
| - by air : | Not applicable |
| - UN classification number | Not applicable |

OTHER REGULATIONS

- | | |
|-----------|----------------|
| - by land | Not applicable |
| - by rail | Not applicable |

15. Regulatory information

- | | |
|----------------|------|
| - EC labelling | |
| - Symbols | None |
| - R Phrases | None |
| - S Phrases | None |

16. Other information

Date of current version :

Supersedes previous Safety Data sheet of

“This Safety Data Sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of our knowledge at the data indicated here above.



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It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his or her activity . The user bears sole liability for the precautions required when using the product . The regulatory texts indicated herein are intended to aid the user to fulfill his obligations. This list is not to be considered complete and exhaustive. SIIt is the user's responsibility to ensure that he is subject to no other obligations than those mentioned ."