



ERA OILFIELD
SERVICES lubricants

PRODUCT DESCRIPTION INFORMATION

Designed as a blend of pure fatty acids and water this pourable semi liquid product is 100% environmentally safe and non hazardous. Its function is to provide lubrication during coring operations, tight hole and stuck pipe situations. An excellent remedial product where high torque is an issue during drilling operations.

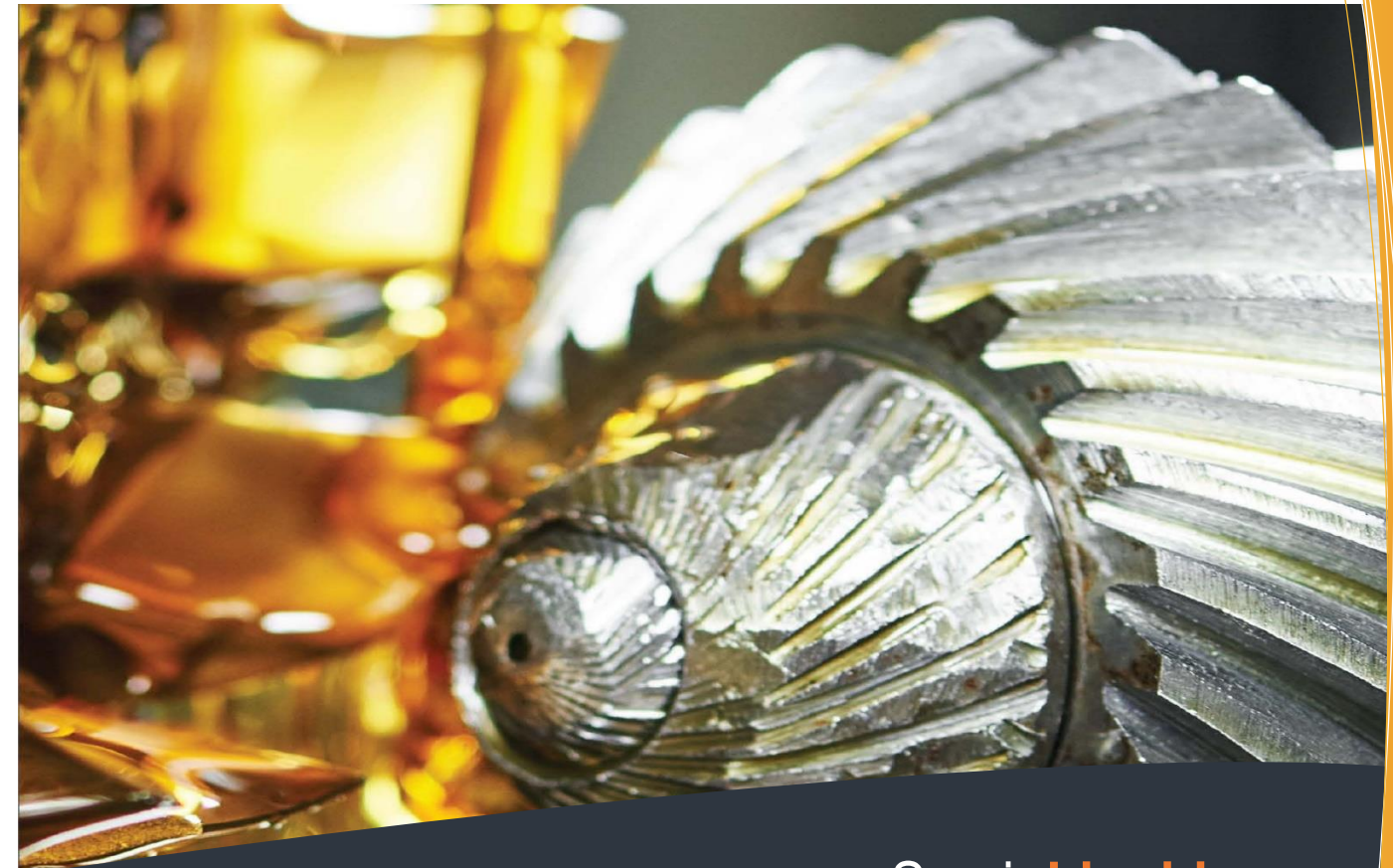
The following description provides detailed information on composition, toxicity, ecological and environmental standards, chemical stability and properties, transportation considerations, All ingredients are identified under CAS regulations.

The product meets the international standards and regulations as listed below:

- ASTM (American Society for Testing and Materials)
- CAS (Chemical Abstracts Service)
- TSCA (United States Toxic Substances Control Act)
- EINECS (EU Inventory Existing Chemical Substances)
- DSL (Canadian Domestic Substances List)
- IECSC (China Inventory of Existing Chemical Substances)
- NZIOC (New Zealand Inventory of Chemicals)
- PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- KECI (Known Existing and Evaluated Chemical Substances)
- AICS (Australian Inventory of Chemical Substances)
- IATA / ADR / ICAO / IMDG / CODE / REACH
- OSHA / NIOSH

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lubricants

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Semi **Liquid**
Grease (SLG)

ERA - SLG (semi liquid grease)

Product Information

- Cost effective
- Semi Liquid
- Pourable
- Solves high torque issues
- Tight hole application
- Stuck pipe application
- Environmentally friendly
- Chemically stable

Designed as a blend of pure fatty acids and water this pourable semi liquid product is 100% environmentally safe and non hazardous.

Its function is to provide lubrication during coring operations, tight hole and stuck pipe situations.

An excellent remedial product where high torque is an issue during drilling operations.

Easy to use during operations it requires no special application considerations and can be stored safely under normal conditions.

Ecological Data

- Aquatic - non hazardous
- Bioaccumulation - low
- Soil Mobility - No data
- Environmental release - non toxic
- Classified as NON HAZARDOUS

Transport Data

- Air transport (ICAO/IATA/DGR) - not regulated
- Road Transport (UN-ADR) - not regulated
- Sea Transport (IMDG - CODE) - not regulated

Technical Data

Composition

- Fatty Acids 55%
- Silicon Dioxide 10%
- Polyethylene Glycol 10%
- Water 25%

CAS number

- Fatty Acids 627-91-8
- Silicon Dioxide 112945-52-5
- Polyethylene Glycol 25322-68-3

GHS hazard class

- Non Hazardous

Physical and chemical properties

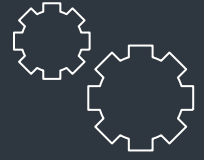
- Light brown semi liquid grease (ASTM D156)
- Odourless
- Non working penetration = 369 (ASTM D217)
- Evaporation loss = 0.87 (ASTM D972)
- Dropping Point = 201C (ASTM D2265)
- Maximum non seize load = 1234 PB N (ASTM D2783)
- Corrosive testing on steel sheet = Pass (ASTM D4048)
- Flash Point = >93C

Chemical Stability

- Chemically stable.
- Non reactive under recommended storage and handling conditions
- Incompatible with strong acids, strong oxidising agents and strong bases
- Do not store in direct sunlight
- Do not expose to open fire
- Does not produce hazardous substances during decomposition

Toxicological Information

- Non Toxic
- Skin Irritation Mild under Standard Draize Testing
- Eye Irritation Mild under Standard Draize Testing
- Respiratory Sensitisation Effects - None
- Skin Sensitisation Effects - None
- Carcogenicity Effects - None
- Reproductive Toxicity - None
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