

# Safety Data Sheet

Issued: July 5, 1995

SDS No. SN02M011 SHELL ALVANIA EP GREASE 1, 2, R0 & R00

#### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

**Product name:** SHELL ALVANIA EP GREASE 1

SHELL ALVANIA EP GREASE 2 SHELL ALVANIA EP GREASE RO SHELL ALVANIA EP GREASE ROO

**Product code:** See Table 1

Product type: Lubricating greases

Supplier: «Supplier»

Address: «Add1»

«Add2»

**Contact numbers:** 

Telephone: «ContactNo»

Telex: «ContactTlx»

«ContactFax»

**Emergency telephone number:** 

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Preparation description:** A lubricating grease containing highly-refined mineral oils and

additives.

Contains lead compounds.

**Dangerous components/constituents:** 

Component name CAS number Content range EC hazard R phrases

% m/m

Naphthenic acids, lead salts 61790-14-5 1 to 5 % Repr.Cat 1 R61,R20/ 22,R33

(Ref: EU Dangerous Substances Directive, 67/548/EEC, Annex I entry for lead compounds, No 082-001-00-6)

#### 3. HAZARDS IDENTIFICATION

**Human health hazards:** May cause harm to the unborn child. Danger of cumulative

effects. Prolonged or repeated exposure may give rise to dermatitis. Used grease may contain harmful impurities.

**Safety hazards:** Not classified as flammable, but will burn.

**Environmental hazards:** Not readily biodegradable. Expected to have a high potential to

bioaccumulate.

999-10512-0803

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#### 4. FIRST AID MEASURES

**Symptoms and effects:** Not expected to give rise to an acute hazard under normal

conditions of use. Prolonged exposure may cause fatigue, abdominal pain, black lines on the gums, headaches and tremors. Kidney and reproductive effects have been reported.

First Aid - Inhalation: Inhalation of any vapours from this product is not likely to

present an acute hazard.

First Aid - Skin: Remove contaminated clothing and wash affected skin with

soap and water. If persistent irritation occurs, obtain medical

attention.

If high pressure injection injuries occur, obtain medical attention

immediately.

First Aid - Eye: Flush eye with copious quantities of water. If persistent irritation

occurs, obtain medical attention.

First Aid - Ingestion: Wash out mouth with water and obtain medical attention. DO

NOT INDUCE VOMITING.

Advice to physicians: Treat symptomatically. Aspiration into the lungs may result in

chemical pneumonitis. Dermatitis may result from prolonged or repeated exposure. Antidotes are available for lead poisoning.

#### 5. FIRE FIGHTING MEASURES

**Specific hazards:** Combustion is likely to give rise to a complex mixture of gases

and airborne particulates, including carbon monoxide, oxides of sulphur, lead compounds and unidentified organic and inorganic

compounds.

**Extinguishing media:** Foam and dry chemical powder. Carbon dioxide, sand or earth

may be used for small fires only.

Unsuitable extinguishing

media:

Water in a jet. Use of Halon extinguishers should be avoided for

environmental reasons.

**Protective equipment:** Proper protective equipment including breathing apparatus must

be worn when approaching a fire in a confined space.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Minimise contact with skin.

**Personal protection:** Wear impermeable gloves and boots.

**Environmental** Prevent from entering into drains, ditches or rivers. Inform local

precautions:

additionated if the carmot be provented.

authorities if this cannot be prevented.

Clean-up methods - small

spillage:

Shovel into a suitable, clearly marked container for disposal or

reclamation in accordance with local regulations.

Clean-up methods - large

spillage:

As for small spills.

#### 7. HANDLING AND STORAGE

**Handling:** When handling product in drums, safety footwear should be

worn and proper handling equipment should be used. Prevent

spillages.

**Storage:** Keep in a cool, dry, well-ventilated place. Use properly labelled

and closable containers. Avoid direct sunlight, heat sources, and

strong oxidizing agents.

**Storage temperature:** 0°C minimum to 50°C maximum.

**Recommended materials:** Use mild steel or high density polyethylene (HDPE) for

containers or container linings.

**Unsuitable materials:** Avoid PVC for containers or container linings.

**Other information:** Polyethylene containers should not be exposed to high

temperatures because of possible risk of distortion.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure

standards:

None established.

**Hygiene measures:** Wash hands before eating and drinking.

**Respiratory protection:** Not normally required.

**Hand protection:** PVC or nitrile rubber gloves

**Eye protection:** Wear safety glasses or full face shield if splashes are likely to

occur.

**Body protection:** Minimise all forms of skin contact. Wear overalls to minimise

contamination of personal clothing. Launder overalls and

undergarments regularly.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Semi-solid at ambient temperature

Colour: See Table 1

Odour: Characteristic mineral oil

**Vapour pressure:** < 0.5 Pa at 20°C (based on mineral oil)

**Density:** See Table 1

Vapour density (air=1): > 1

**Dropping point:** See Table 1

Flash point: > 140°C (COC) (based on mineral oil)
Flammability limit - lower: 1% V/V (typical) (based on mineral oil)
Flammability limit - upper: 10% V/V (typical) (based on mineral oil)

**Auto-ignition temperature:** > 320°C (typical)

Solubility in water: Negligible

**n-octanol/water partition** Log P<sub>OW</sub> > 6 (typical)

coefficient:

**Elements content:** Lithium: <0.5% (m/m).

lead: <1.0% (m/m).

#### 10. STABILITY/REACTIVITY

Stability: Stable

**Conditions to avoid:** Extremes of temperature and direct sunlight.

Materials to avoid: Strong oxidizing agents

**Hazardous decomposition** 

products:

Hazardous decomposition products are not expected to form

during normal storage.

#### 11. TOXICOLOGICAL INFORMATION

**Basis for assessment:** Toxicological data have not been determined specifically for this

product. Information given is based on a knowledge of the

components and the toxicology of similar products.

**Acute toxicity - oral:** LD<sub>50</sub> expected to be above 2000 mg/kg

**Acute toxicity - dermal:** LD<sub>50</sub> expected to be above 2000 mg/kg

**Eye irritation:** Expected to be slightly irritant. **Skin irritation:** Expected to be slightly irritant.

**Respiratory irritation:** If vapours are inhaled, slight irritation of the respiratory tract may

occur.

**Skin sensitization:** Not expected to be a skin sensitizer.

**(Sub) chronic toxicity:** Possible risk of cumulative effects from lead absorption through

the skin.

Carcinogenicity: Product is based on mineral oils of types shown to be non-

carcinogenic in animal skin-painting studies.

**Mutagenicity:** Not considered to be a mutagenic hazard

**Human effects:** Exposure to lead compounds may lead to accumulation in the

bones and cause toxic changes to central nervous system, kidney, blood and heart. Lead is a developmental toxicant and

may possibly be a carcinogen at high dosage levels.

Other information: Prolonged and/or repeated contact with products containing

mineral oils can result in defatting of the skin, particularly at elevated temperatures. This can lead to irritation and possibly dermatitis, especially under conditions of poor personal hygiene.

Skin contact should be minimised.

Used grease may contain harmful impurities that have accumulated during use. The concentration of such harmful impurities will depend on use and they may present risks to health and the environment on disposal. ALL used grease should be handled with caution and skin contact avoided as far

as possible.

#### 12. ECOLOGICAL INFORMATION

Basis for assessment: Ecotoxicological data have not been determined specifically for

this product. Information given is based on a knowledge of the

components and the ecotoxicology of similar products.

**Mobility:** Semi-solid under most environmental conditions. Floats on

water. If it comes into contact with soil, it will strongly adsorb to

soil particles.

**Persistence/degradability:** Not readily biodegradable. Major constituents are expected to be

inherently biodegradable, but the product contains components

that may persist in the environment.

**Bioaccumulation:** Has the potential to bioaccumulate.

**Ecotoxicity:** Poorly soluble mixture. Product is expected to be practically

non-toxic to aquatic organisms, LC/EC<sub>50</sub> > 100 mg/L. May

cause physical fouling of aquatic organisms.

(LC/EC50 expressed as the nominal amount of product required

to prepare aqueous test extract).

#### 13. DISPOSAL CONSIDERATIONS

Waste disposal: Used or waste grease should be recycled or disposed of in

accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the contractor to deal satisfactorily with used grease should be established beforehand. Used or waste grease should not be

allowed to contaminate soil or water.

**Product disposal:** As for waste disposal.

**Container disposal:** 200 litre drums should be emptied and returned to the supplier

or sent to a drum reconditioner without removing or defacing markings or labels. Non-reusable small metal and plastic containers should be recycled where possible, or disposed of as

domestic refuse.

Local legislation:

#### 14. TRANSPORT INFORMATION

Not dangerous for conveyance under UN, IMO, ADR/RID and IATA/ICAO codes.

# 15. REGULATORY INFORMATION

**EC Classification:** Toxic for reproduction (development)

EC Symbols: T.

# SHELL ALVANIA EP GREASE 1, 2, R0 & R00

**EC Risk Phrases:** R61 May cause harm to the unborn child .

R33 Danger of cumulative effects

**EC Safety Phrases:** S53 Avoid exposure - obtain special instructions before use.

S45 In case of accident or if you feel unwell seek medical

advice immediately (show the label where possible)

**EINECS (EC):** All components listed or polymer exempt

TSCA (USA): All components listed.

Other information: For listing on other inventories, eg MITI (Japan), AICS

(Australia) and DSL (Canada), please consult suppliers.

**Dangerous constituents:** Contains naphthenic acids, lead salts

### 16. OTHER INFORMATION

**Uses and restrictions:** Multipurpose grease for rolling and plain bearings operating

under loaded conditions.

Technical contact point: «TechPoint»

**Technical contact number:** 

Telephone: «TechNo»

Telex: «TechTlx»

Fax: «TechFax»

**SDS history:** Edition number: 4

First issued: 20-12-88

Revised: July 5, 1995

**Revisions highlighted:** New format and minor editorial changes.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not be construed as guaranteeing any specific property of the product.

TABLE 1: ALVANIA EP GREASES

Product codes and typical properties

SHELL ALVANIA EP GREASE GRADE	1	2	RO	ROO
Product Codes	65 7 20	65 7 21	65 7 19	65 7 17
Density at 15°C (kg/m³)	900	900	900	900
Dropping point °C (by ASTM D-566)	>177	>180	>175	Not Applicable

# SHELL ALVANIA EP GREASE 1, 2, R0 & R00

Appearance	Dark Brown	Dark Brown	Brown	Brown
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