SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Agip Coro KSO 32 LK

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses
Metal working fluids

1.3 Details of the supplier of the safety data sheet
Supplier (manufacturer/importer/downstream user/distributor)
Eni Schmiertechnik GmbH
Street : Paradisstraße 14
Postal code/city : 97080 Würzburg
Telephone : (+49) 931-90098-0
Telefax : (+49) 931-98442
Information contact : Technical Department, Tel. (+49) 931 900 98-142
e-mail: technik.wuerzburg@agip.de, www.enischmiertechnik-datenblaetter.de

1.4 Emergency Telephone Number
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
None

2.2 Label elements
None

2.3 Other hazards
None

SECTION 3: Composition / information on ingredients

3.2 Mixtures
Description
Preparation of solvent refined mineral oils with low content of aromatic hydrocarbons and additives.

Hazardous ingredients
Distillates (petroleum), hydrotreated heavy paraffinic ; REACH registration No. : 01-2119471299-27 ; EC No. : 265-169-7; CAS No. : 64742-65-0
Weight fraction : 75 - 95 %
Classification 1272/2008 [CLP] : Asp. Tox. 1 ; H304

Additional information
Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
General information
When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice.

**In case of inhalation**
Remove casualty to fresh air and keep warm and at rest. Where appropriate artificial ventilation. In case of respiratory tract irritation, consult a physician.

**In case of skin contact**
Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

**After eye contact**
Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

**After ingestion**
Do NOT induce vomiting. Call a physician immediately. Rinse mouth thoroughly with water. Where appropriate artificial ventilation.

**Self-protection of the first aider**
Protect your self against exposure to chemicals or blood-borne diseases by wearing gloves and eye protection. After providing first aid wash your exposed skin with soap and water.

**4.2 Most important symptoms and effects, both acute and delayed**
No information available.

**4.3 Indication of any immediate medical attention and special treatment needed**
First Aid, decontamination, treatment of symptoms. Observe risk of aspiration if vomiting occurs.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**
Foam, Extinguishing powder, Carbon dioxide (CO2), Water spray, Water mist

**Unsuitable extinguishing media**
Strong water jet

**5.2 Special hazards arising from the substance or mixture**

**Hazardous combustion products**
In case of fire may be liberated: Carbon dioxide (CO2), Carbon monoxide, Nitrogen oxides (NOx), Smoke and other incomplete combustion products.

**5.3 Advice for firefighters**

**Special protective equipment for firefighters**
Wear a self-contained breathing apparatus and chemical protective clothing.

**5.4 Additional information**
Do not inhale explosion and combustion gases. Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**
Use personal protection equipment. Avoid contact with skin, eyes and clothes. Wear breathing apparatus if exposed to vapours/aerosols. Ventilate affected area. Keep away from sources of ignition. - No smoking.

**6.2 Environmental precautions**
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. In case of entry into waterways, soil or drains, inform the responsible
6.3 **Methods and material for containment and cleaning up**

**For containment**
Stop and contain spill/release if it can be done safely. Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

**For cleaning up**
Clear spills immediately. Wipe up with absorbent material (e.g. cloth, fleece). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal. Ventilate affected area. Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4 **Reference to other sections**
See Section 8 for information on appropriate personal protective equipment.
See Section 12 for environmental precautions.
See Section 13 for additional waste treatment information.

**SECTION 7: Handling and storage**

7.1 **Precautions for safe handling**
Use only in well-ventilated areas. Put lids on containers immediately after use. Avoid contact with skin, eyes and clothes. Avoid: Inhalation of vapours or spray/mists Keep away from sources of ignition. - No smoking.

**Protective measures**
- Measures to prevent fire
  - Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
- Environmental precautions
  - Do not allow to enter into surface water or drains.

**Advises on general occupational hygiene**
When using do not eat, drink, smoke. Wash hands before breaks and after work.

7.2 **Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**
Keep container tightly closed in a cool, well-ventilated place. Protect containers against damage. Provide earthing of containers, equipment, pumps and ventilation facilities.

**Hints on joint storage**
Keep away from: Oxidising agent
- Storage class : 10
- Do not store together with
  - Food and feedingstuffs

**Further information on storage conditions**
- **Recommended storage temperature**: 5 - 40°C / 40 - 105°F.
- **Storage stability**: Product may be stored for up to 24 months under described conditions.

7.3 **Specific end use(s)**
None

**SECTION 8: Exposure controls/personal protection**

8.1 **Control parameters**
None

8.2 **Exposure controls**
Appropriate engineering controls
Use only in well-ventilated areas. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Technical measures and the application of suitable work processes have priority over personal protection equipment.

Personal protection equipment
Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Eye/face protection
Eye glasses with side protection (DIN EN 166)

Skin protection
Hand protection
Tested protective gloves must be worn: DIN EN 374
The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Do not wear gloves near rotary machines and tools.

Suitable material:
- Wearing time with permanent contact:
  - Material: NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber), PVA (Polyvinyl alcohol),
  - Thickness of the glove material: 0,70 mm
  - Breakthrough time (maximum wearing time): > 480 min
- Wearing time with occasional contact (splashes):
  - Material: NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber), PVA (Polyvinyl alcohol),
  - Thickness of the glove material: 0,40 mm
  - Breakthrough time (maximum wearing time): > 30 min

Breakthrough time (maximum wearing time): For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Check leak tightness/impermeability prior to use.

Body protection
Body protection: not required. If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

Additional body protection measures:
- When handling product in drums, safety footwear should be worn and proper handling equipment should be used.
- When using contaminated clothing:

Respiratory protection
Usually no personal respirative protection necessary.
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Respiratory protection necessary at: exceeding exposure limit values insufficient ventilation aerosol or mist formation.

General health and safety measures
When using do not eat, drink, smoke. Wash hands before breaks and after work. Wash contaminated clothing prior to re-use. Do not put any product-impregnated cleaning rags into your trouser pockets. Apply skin care products after work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: liquid
Colour: light yellow
Odour: mineral oil like

Safety relevant basis data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH value</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling temperature:</td>
<td>(1013 hPa) &gt; 200 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 140 °C DIN EN ISO 2592</td>
</tr>
<tr>
<td>Pour Point</td>
<td>&lt; -20 °C</td>
</tr>
<tr>
<td>Flammability (Solid, Gas):</td>
<td>not applicable</td>
</tr>
</tbody>
</table>
SECTION 10: Stability and reactivity

9.2 Other information
None

SECTION 10: Stability and reactivity

10.1 Reactivity
No information available.

10.2 Chemical stability
Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions
No information available.

10.4 Conditions to avoid
No information available.

10.5 Incompatible materials
Oxidising agent, strong.

10.6 Hazardous decomposition products
Hazardous decomposition products are not expected to form during normal storage.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Toxicological data are not available. The statement is derived from the properties of the single components. Data apply to the main component.

Acute effects
No data available to indicate product may be an acute toxic oral, dermal or inhalation hazard.

Acute oral toxicity
Parameter : LD50 (Distillates (petroleum), hydrotreated heavy paraffinic; CAS No. : 64742-65-0)
Exposure route : Oral
Species : Rat
Effective dose : > 5000 mg/kg

Acute dermal toxicity
Parameter : LD50 (Distillates (petroleum), hydrotreated heavy paraffinic; CAS No. : 64742-65-0)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 5000 mg/kg

Acute inhalation toxicity

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Parameter : LD50 (Distillates (petroleum), hydrotreated heavy paraffinic; CAS No. : 64742-65-0)
Exposure route : Inhalation
Species : Rat
Effective dose : > 5,53 mg/l
Exposure time : 4 h

Irritant and corrosive effects
Not an irritant.

Primary irritation to the skin
Parameter : Primary irritation to the skin (Distillates (petroleum), hydrotreated heavy paraffinic; CAS No. : 64742-65-0)
Species : Rabbit
Result : Mild effects but not relevant for classification.

Irritation to eyes
Parameter : Irritation to eyes (Distillates (petroleum), hydrotreated heavy paraffinic; CAS No. : 64742-65-0)
Species : Rabbit
Result : Mild effects but not relevant for classification.

Sensitisation
Not sensitising.

In case of skin contact
Parameter : Skin sensitisation (Distillates (petroleum), hydrotreated heavy paraffinic; CAS No. : 64742-65-0)
Parameter : Guinea pig
Result : Not sensitizing

Repeated dose toxicity (subacute, subchronic, chronic)
Subacute dermal toxicity
Has degreasing effect on the skin.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
Carcinogenicity
No known significant effects or critical hazards.
Germl cell mutagenicity/Genotoxicity
No known significant effects or critical hazards.
Reproductive toxicity
No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)
STOT SE 1 and 2
Not expected to cause organ damage from a single exposure.

Specific target organ toxicity (repeated exposure)
STOT RE 1 and 2
Not expected to cause organ damage from prolonged or repeated exposure.

Aspiration hazard
Based on the available data the classification criteria for aspiration toxicity are not met. Based on physico-chemical properties of the material. For viscosity data, see chapter 9.

11.3 Other adverse effects
The inhalation of dust/mist or aerosols causes irritation of the respiratory tract.

SECTION 12: Ecological information

12.1 Toxicity
For the product ecotoxicological data are not available. The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see chapter 3).
Aquatic toxicity
Harmless to aquatic organisms up to the tested concentration

**Acute (short-term) fish toxicity**
- Parameter: LC50 (Distillates (petroleum), hydrotreated heavy paraffinic; CAS No.: 64742-65-0)
- Species: Oncorhynchus mykiss (Rainbow trout)
- Effective dose: > 100 mg/l
- Exposure time: 96 h

**Acute (short-term) daphnia toxicity**
- Parameter: EC50 (Distillates (petroleum), hydrotreated heavy paraffinic; CAS No.: 64742-65-0)
- Species: Daphnia magna (Big water flea)
- Effective dose: > 1000 mg/l
- Exposure time: 48 h

**Acute (short-term) algae toxicity**
- Parameter: EC50 (Distillates (petroleum), hydrotreated heavy paraffinic; CAS No.: 64742-65-0)
- Species: Pseudokirchneriella subcapitata
- Effective dose: > 100 mg/l
- Exposure time: 72 h

**12.2 Persistence and degradability**

**Abiotic degradation**
- Physicochemical elimination
  - Poorly watersoluble product. Can be mechanically precipitated to a large extent in biological sewage plants.

**Biodegradation**
  - Part of the components is biodegradable.

**12.3 Bioaccumulative potential**

**12.4 Mobility in soil**
  - Floats on water.
  - Adsorbs to soil and has low mobility.

**12.5 Results of PBT and vPvB assessment**
  - The substance does not fulfill the screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

**12.6 Other adverse effects**
  - Damage can be caused through mechanical influence of the product (eg. sticking).

**12.7 Further ecological information**
  - Do not allow uncontrolled discharge of product into the environment.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Product/Packaging disposal**
  - Waste codes/waste designations according to EWC/AVV
    - The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.
  - **Waste code product**
    - 12 01 07*
    - However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.
  - **Waste name**
    - Mineral-based machining oils free of halogens (except emulsions and solutions).
  - **Waste treatment options**
Appropriate disposal / Product
Can be incinerated together with household waste in compliance with applicable technical regulations following consultation with approved waste disposal management companies and authorities in charge.

Appropriate disposal / Package
Non-contaminated packages may be recycled. Packing which cannot be properly cleaned must be disposed of. Dispose of waste according to applicable legislation.

Other disposal recommendations
Containers, even those that have been emptied, can contain product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, drill, grind, weld or perform similar operations on or near containers. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

14.1 UN number
No dangerous goods in sense of this transport regulation.

14.2 UN proper shipping name
No dangerous goods in sense of this transport regulation.

14.3 Transport hazard class(es)
No dangerous goods in sense of this transport regulation.

14.4 Packing group
No dangerous goods in sense of this transport regulation.

14.5 Environmental hazards
No dangerous goods in sense of this transport regulation.

14.6 Special precautions for user
None

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations
Water hazard class (WGK)
Class : 1 (Slightly hazardous to water) Classification according to VvVwS

15.2 Chemical Safety Assessment
No information available.

SECTION 16: Other information

16.1 Indication of changes
None

16.2 Abbreviations and acronyms
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
16.3 Key literature references and sources for data

Sources of information used in preparing this SDS included one or more of the following: Product Dossiers and SDS from suppliers, complemented by public sources, as appropriate (GESTIS, the EU IUCLID Data Base, U.S. NTP publications, e.g.).

16.4 Relevant H- and EUH-phrases (Number and full text)

H304 May be fatal if swallowed and enters airways.

16.5 Training advice

Provide adequate information, instruction and training for operators.

16.6 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.