



AC.ENG HIDROIL 814 EP 5L
Code: 47135

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

- 1.1 Product description: **AC.ENG HIDROIL 814 EP 5L**
Code: 47135
- 1.2 Intended uses: Lubricating oil in gearboxes and differentials. Only for industrial use.
- 1.3 Company: **KRAFFT, S.L. UNIPERSONAL**
Carretera de Urnieta, s/nº - Apartado 14 - 20140 - Andoain (Gipuzkoa)
Phone: +34 943 410400 - Fax: +34 943 410440 - msds@krafft.es
- 1.4 Emergency phone number: **+34 943 410400 (8:00-17:00 h.) (working hours)**

2. HAZARDS IDENTIFICATION

- 2.1 EC classification:
This product is not considered dangerous. in accordance with Directive 67/548/EEC~2004/73/EC and 1999/45/EC~2006/8/EC
- 2.2 Adverse effects: See section 11.

3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Chemical description:
Blend of lubricants fluid and additives
- 3.2 Dangerous ingredients:
Substances taking part in a percentage higher than the exemption limit:

| | | | |
|--|------------------------------|--------------|----------------|
| < 1 % | Stearamine | EC 204-695-3 | Autoclassified |
| <input type="checkbox"/>  | Xi:R38-R41 N:R51-53 | CAS 124-30-1 | |
| < 0,5 % | Oleamine | EC 204-015-5 | Autoclassified |
| <input type="checkbox"/>  | Xn:R22 C:R34 R43 N:R50 | CAS 112-90-3 | |

For more information, see sections 8, 11, 12 and 16.

4. FIRST AID MEASURES



When in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. First aid emergency phone number: +34 91 5620420 (Instituto Nacional de Toxicología).

- 4.1 By inhalation:
In case of mist or vapour inhalation, move the patient to a well ventilated area. If breathing is irregular or stops, administer artificial respiration.
- 4.2 By contact with the skin:
Remove immediately contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser.
- 4.3 By contact with eyes:
Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. Call a physician immediately.



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4.4 By ingestion:

If swallowed, seek immediate medical attention. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.

5. FIRE-FIGHTING MEASURES

5.1 Means of extinction:

Extinguishing powder or CO₂. In the case of more important fires, also alcohol resistant foam. Water may serve for cooling, but it is inefficient in extinguishing. Do not use for extinguishing: direct water jet.

5.2 Specific risks:

Fire can produce a dense black smoke. As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide, sulfur oxides. Exposure to combustion or decomposition products may be a hazard to health.

5.3 Fire-proof protective equipment:

Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots.

5.4 Other recommendations:

Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions:

It is recommended not to smoke. Avoid direct contact with this product. Avoid breathing vapours. The floor may become slippery. For exposure controls and personal protection measures, see section 8.

6.2 Environmental precautions:

Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.

6.3 Cleaning-up methods:

Contain and mop up spills with absorbent materials (sawdust, earth, sand, vermiculite, diatomaceous earth, etc.). Clean preferably with a biodegradable detergent. Keep the remains in a closed container. For subsequent waste disposal, follow the recommendations in section 13.



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7. HANDLING AND STORAGE

7.1 Handling precautions:

Comply with the existing legislation on health and safety at work.

- **General recommendations:** Avoid any type of leakage or escape. Keep the container tightly closed.
- **Recommendations for the prevention of fire and explosion risks:** Although due its low flammability does not represent a serious risk of fire, all type of measures should be taken in order to avoid any possibility of ignition.
 - **Flash point** : 290. °C
- **Recommendations for the prevention of toxicological risks:** Do not eat, drink or smoke while handling. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.
- **Recommendations for the prevention of environmental contamination:** Avoid any spillage in the environment. In the case of accidental spillage, follow the instructions indicated in section 6.

7.2 Storage conditions:

Prevent unauthorized access. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. If possible, avoid direct contact with sunlight. Avoid extreme humidity conditions. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10.1.

- **Class of store** : According to current legislation.
- **Maximum storage period** : 60. months
- **Temperature interval** : min: 5. °C, max: 40. °C
- **Incompatible materials:** Keep away from oxidizing agents.
- **Type of packaging:** According to current legislation.
- **Limit quantity, in accordance with Directive 96/82/EC~2003/105/EC (Seveso III):**
Not applicable.

7.3 Specific uses:

For the use of this product do not exist particular recommendations apart from that already indicated.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION 98/24/EC

| 8.1 Occupational Exposure Limits (TLV) AGCIH 2006 | TLV-TWA | | TLV-STEL | | Year |
|--|---------|-------|----------|-------|-----------|
| | ppm | mg/m3 | ppm | mg/m3 | |
| Mineral oil | | 5.0 | | 10.0 | Mist 1999 |

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.

8.2 Occupational exposure controls, Directive 89/686/EEC:

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

- Protection of respiratory system:

Avoid the inhalation of vapours.

- Mask:

No, unless the inhalation of mists is to be avoided.

- Protection of eyes and face:

Install emergency eye baths close to the working area.

- Goggles:

Safety goggles designed to protect against liquid splashes, with suitable lateral protection (EN166).

- Face shield:

No.

- Protection of hands and skin:

Install emergency showers close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.

- Gloves:

Oil-resistant gloves (EN374). The breakthrough time of the selected glove material should be in accordance with the pretended period of use. The gloves should be immediately replaced when any sign of degradation is noted.

- Boots:

No.

- Apron:

No.

- Clothing:

Suitable work clothes which avoid contact with the product should be worn. Do not use contaminated clothing or shoes. Wash contaminated work clothes before wearing them again.

8.3 Environmental exposure controls:

Avoid any spillage in the environment. Avoid any release into the atmosphere.





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9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-----------------------|-----------------------------|----------|--|
| - Physical state | : Liquid. | | |
| - Colour | : Brown. | | |
| - Odour | : Characteristic. | | |
| - Flash point | : 290. °C | | |
| - Specific gravity | : 0.911 g/cc at 20°C | | |
| - Solubility in water | : Not miscible. g/l at 20°C | | |
| - Vapour density | : 4.83 Air = 1 at 20°C | Relative | |
| - VOC (supply) | : 1.3 g/l | | |

For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid:

Stable under recommended storage and handling conditions.

- Heat: Keep away from sources of heat.
- Light: Not applicable.
- Air: Not applicable.
- Humidity: Avoid extreme humidity conditions.
- Pressure: Not applicable.
- Shock: Not applicable.

10.2 Materials to avoid:

Possible dangerous reaction with oxidizing agents.

10.3 Thermal decomposition:

As consequence of thermal decomposition, hazardous products may be produced: carbon monoxide.

11. TOXICOLOGICAL INFORMATION

11.1 Toxicological effects:

- May slightly irritate the eyes temporarily. Inhalation of sprayed mist or particles in suspension may irritate the respiratory system. If swallowed, may cause gastrointestinal problems. Repeated or prolonged contact may cause cutaneous complaints.
- Contains sensitising substances. May produce an allergic reaction.

11.2 Dose and lethal concentrations :

| | | | |
|---------------------------|--------------------|-------------------------|---------------------------------|
| - LD50 Oral Rats | : > 5000. mg/kg | | |
| - LD50 Cutaneous Rabbits | : > 2000. mg/kg | | |
| - Individual ingredients: | DL50 Oral mg/kg | DL50 Cutaneous mg/kg | CL50 Inhalation mg/m3.4hours |
| Stearamine | 2395. Rat | | |
| Oleamine | 800. Rat | | |



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12. ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these preparation has been carried out by using the conventional calculation method of the Directive 1999/45/EC.

12.1 Ecotoxicity: for individual ingredients :

| | CL50 mg/l.96hours | CE50 mg/l.48hours | CE50 mg/l.72hours |
|------------|----------------------|----------------------|----------------------|
| Stearamine | 0.88 Fishes | 0.13 Daphnia | |
| Oleamine | 0.11 Fishes | 0.011 Daphnia | 0.030 Algae |

12.2 Mobility:

Not available.

- **Spills on the soil:** Prevent contamination of soil.
- **Spills in water:** Important spills may form a film on the surface of the water which prevents oxygenation of the same, thus harming aquatic organisms. May cause long-term adverse effects on the aquatic environment. Do not allow to escape into drains, sewers or water courses.
- **Emissions to the atmosphere:** Because of volatility, emissions to the atmosphere while handling and use may result. Avoid any release into the atmosphere.

12.3 Persistence and degradability:

Not available.

12.4 Bioaccumulative potential:

Not available.

12.5 Results of PBT assesment:

Not available.

12.6 Other adverse effects:

Not available.

13. DISPOSAL CONSIDERATIONS

13.1 Handling of waste, Directive 75/442/EEC~91/156/EC:

Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

13.2 Disposal of empty containers, Directive 94/62/EC:

Emptied containers and packaging should be disposed of in accordance with currently local and national regulations.

13.3 Procedures for neutralising or destroying the product:

Controlled incineration or reclaiming in special facilities for chemical waste, in accordance with local regulations.



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14. TRANSPORT INFORMATION

- 14.1 Transport by road, Directive 94/55/EC~2006/89/EC (ADR 2007):
Transport by rail, Directive 96/49/EC (RID 2007): : Free
- 14.2 Transport by sea (IMDG 33-06): : Free
- 14.3 Transport by air (ICAO/IATA 2007): : Free

15. REGULATORY INFORMATION

15.1 EC Labelling:



This product does not require pictograms, in accordance with Directive 67/548/EEC~2004/73/EC and 1999/45/EC~2006/8/EC

- R-phrases: **None.**

- S-phrases:

- S23 Do not breathe vapour, spray.
S24 Avoid contact with skin.
S51 Use only in well-ventilated areas.

- P-phrases:

- P99 Contains oleamine. May produce an allergic reaction.

- Dangerous ingredients: None.

15.2 Restrictions to the marketing and use in accordance with Directive 76/769/EEC:

Not applicable.

15.3 Other EC regulations:

Not applicable

15.4 Other regulations:

Not available



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16. OTHER INFORMATION

Text of R-phrases listed in sections 2 and 3:

R22 Harmful if swallowed. R34 Causes burns. R38 Irritating to skin. R41 Risk of serious damage to eyes. R43 May cause sensitization by skin contact. R50 Very toxic to aquatic organisms. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Material Safety Data Sheet regulations:

Material Safety Data Sheet in accordance with the Annex II of the Regulation (EC) No. 1907/2006 (REACH).

Main data sources:

- European Chemicals Bureau: Existing Chemicals, <http://ecb.jrc.ec.europa.eu/existing-chemicals/>
- Threshold Limit Values, (AGCIH, 2006).

History:

Version:

1

Revision date:

30/10/2008

Date of issue:

28/01/2009

The information of this Material Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.