

GRASA KL/1K
Code: 15404

1. IDENTIFICATION OF THE PRODUCT AND COMPANY

- 1.1 Product description: **GRASA KL/1K**
Code: 15404
- 1.2 Intended uses: Lubricant fat. 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. IDENTIFICATION OF HAZARDS

- 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:
LITHIUM GREASE
- 3.2 Dangerous ingredients:
Substances taking part in a percentage higher than the exemption limit:

50 < 100 %	Lubricant oils (oil) C17-C35	EC 295-423-2	Index No. 649-497-00-1
<input type="checkbox"/>		CAS 92045-42-6	ATP21 (Note L)
< 0,25 %	Zinc bis(dibutyldithiocarbamate)	EC 205-232-8	Index No. 006-081-00-9
<input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	CAS 136-23-2	ATP24
	Xi:R36/37/38 R43 N:R50-53		

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.

- 4.1 By inhalation:
Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical attention arrives.
- 4.2 By contact with the skin:
Remove 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.
- 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.



GRASA KL/1K
Code: 15404

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5. FIRE-FIGHTING MEASURES

5.1 Means of extinction:

Extinguishing powder or CO₂. In the case of more important fires, also alcohol resistant foam and water spray/mist.

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. 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:

Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. 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..). Keep the remains in a closed container. For subsequent waste disposal, follow the recommendations in section 13.



GRASA KL/1K
Code: 15404

7. HANDLING AND STORAGE

7.1 Handling precautions:

Comply with the health and safety at work laws.

- **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** : 220. °C **Tag**
- **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. For more information, see section 10.1.

- **Class of store** : According to current legislation.
- **Maximum storage period** : 5. years
- **Temperature interval** : min: 5. °C, max: 40. °C
- **Incompatible materials:** Keep away from oxidizing agents, acids.
- **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.

GRASA KL/1K
Code: 15404**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	
Lubricant oils (oil) C17-C35		5.0		10.	Mist 2000

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. If these measures are not sufficient to maintain concentrations of particulates and vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn.

- Protection of respiratory system:**- Mask:**

Mask for gases and vapours (EN141). In order to obtain a suitable protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance with the specifications supplied by the filter producers.

- Protection of eyes and face:

Install emergency eye baths close to the working area.

- Goggles:

Safety goggles 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:

Gloves resistant against chemicals (EN374). The breakthrough time of the selected glove material should be superior to the pretended period of use. The gloves should be immediately replaced when any sign of degradation is noted.

- Boots: No.

- Apron: No.

- Clothing: Advisable.

8.3 Environmental exposure controls:

Avoid any spillage in the environment.





GRASA KL/1K
Code: 15404

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : Paste.
- Colour : Dark brown.
- Odour : Characteristic.
- Flash point : 220. °C Tag
- Specific gravity : 0.89 g/cc at 20°C
- Solubility in water : Not miscible

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: If possible, avoid direct contact with sunlight.
- 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, acids.

10.3 Thermal decomposition:

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

11. TOXICOLOGICAL INFORMATION

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

11.1 Toxicological effects:

- Contains sensitising substances. May produce an allergic reaction.

11.2 Dose and lethal concentrations for individual ingredients :

	DL50 Oral mg/kg	DL50 Cutaneous mg/kg	CL50 Inhalation mg/m ³ .4hours
Lubricant oils (oil) C17-C35	> 5000. Rat	> 2000. Rabbit	
Zinc bis(dibutyldithiocarbamate)	> 5000. Rat		

GRASA KL/1K
Code: 15404

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 :
Lubricant oils (oil) C17-C35
- | CL50
mg/l.96hours | CE50
mg/l.48hours | CE50
mg/l.72hours |
|----------------------|----------------------|----------------------|
| 5000. Fishes | > 1000. Daphnia | > 1000. Algae |
- 12.2 Mobility:**
Not available.
- Spills on the soil: Prevent contamination of soil.
- Spills in water: Do not allow to escape into drains, sewers or water courses.
- Emissions to the atmosphere: Not applicable.
- 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. CONSIDERATIONS FOR DISPOSAL

- 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 in special facilities for chemical waste, but in accordance with local regulations.



GRASA KL/1K
Code: 15404

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. INFORMATION ON REGULATIONS

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:
S24 Avoid contact with skin.

- P-phrases:
P99 Contains zinc bis(dibutyldithiocarbamate). May produce an allergic reaction.
P101 Safety data sheet available for professional user on request.

- 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



GRASA KL/1K
Code: 15404

16. OTHER INFORMATION

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

R43 May cause sensitization by skin contact. R36/37/38 Irritating to eyes, respiratory system and skin. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Text of Notes listed in section 3:

Nota H : La clasificación y el etiquetado que figura para esta sustancia sólo se aplica a la propiedad o propiedades peligrosas indicadas por la frase de riesgo en combinación con la categoría o categorías enumeradas.

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/existing-chemicals/>
- Threshold Limit Values, (AGCIH, 2006).

History:

Version: 3

Revision date:
18/06/2008

Date of issue:
02/07/2008

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.