

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

Product name : NANOLINE HLF 2 UNIVERSAL
 Identified uses : Lubricating grease
 Restrictions of use : For use restrictions refer to the product datasheet
 Provider name : Mathiesen Peru SAC
 Provider address : Av. The towers 180 Urb pine San Luis, Lima, Peru
 Telephone number of the supplier : (51 - 1) 3263322
 Emergency phone number : (51 - 1) 3263322
 Phone number of toxicological information : (51-1) 3263322
 The manufacturer's information : luval.cl
 Electronic address of the supplier : mguerrero@grupomathiesen.com

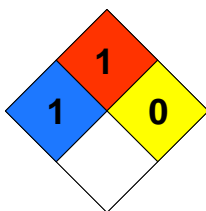
Section 2: Hazards identification

Classification according to NCh382 : Product classified as not hazardous.

Distinctive according to NCh2190 : Does not apply.

Classification according to SGA SGA tag : Does not apply

Safety according to NCh 1411/4 signal :



Rhombus NCh 1411/IV (NFPA 704)

Classification specifies : Not classified as a dangerous substance.

Specific distinctive : No presents.

Description of hazards : No presents.

Description of specific hazards : Not hazardous substance.

Other hazards : Does not have.

Section 3: Composition / information of the components

In the case of a substance

Systematic chemical name : Does not apply
 Common or generic name : Does not apply
 Number CAS : Not applicable
 If has components hazardous
 Denomination chemistry systematically : Not applicable
 Name common or generic : Does not apply
 Range of concentration : Does not apply

In the case of a mixture

	Petroleum oil	Lithium SOAP	Lubricant additives	Solid lubricant additives
Determination chemical or systemic	Aliphatic hydrocarbons	Calcium Hidroxiestearato	There is no information available	There is no information available
Common or generic name	Aliphatic hydrocarbons	Calcium Hidroxiestearato	There is no information available	There is no information available
Concentration range	30-40%	40-60%	10 20%	5-10%
CAS number	It does not present	It does not present	There is no information available	There is no information available

Section 4: First aid

Inhalation : Not expected to be a problem in handling reasonably foreseeable conditions. Inhalation and haze of a product in water mist can cause discomfort that will disappear to breathe clean air.
 Contact with the skin : Remove contaminated clothing, wash the area with plenty of water. If symptoms persist, get medical attention. Wash clothing before reuse.
 Contact with eyes : Move the person to fresh air. Flush eyes with plenty of water, lifting eyelids. If symptoms persist seek medical attention.
 Ingestion : Do not induce vomiting. Drink milk or water and get medical attention immediately. Do not leave the person if attention.
 Acute effects expected : No significant effects expected
 Planned delayed effects : Don't be expect effects adverse
 Most important symptoms/effects : Irritation, redness of the area in contact.
 Protection of those who provide first aid : If swallowed, do not induce vomiting
 Notes for a physician : If swallowed do not induce vomiting.

Section 5: Fire-fighting measures

Extinguishing agents	: AFFF foam or protein fluorine, carbon dioxide, dry chemical, water spray (only if the staff knows the techniques of combat of hydrocarbons)
Unsuitable extinguishing agents	: Rags or cleaning cloths.
Products that are formed in the combustion and thermal degradation	: Carbon dioxide and carbon monoxide, hydrocarbons without combust and small amounts of oxides of sulfur vapors
Specific hazards associated	: The product contains sulphur compounds, so its decay can produce oxides of sulphur.
Specific methods of extinction	: No information available.
Precautions for firefighters or emergency personnel	: The product contains SOAP, which can affect the performance of the foams to the 3%, is recommended the use to the 6%.

Section 6: Measures to be taken in case of accidental spillage

Personal precautions	: Keep in mind that it is a lubricant, so that the affected surface may become slippery.
Protective equipment	: Use gloves of rubber of materials such as: neoprene. Wear normal clothing that covers arms and legs
Emergency procedures	: Contain the spill by absorbing the product with sand or other absorbent material, collect the material with proper shovel.
Environmental precautions	: Prevent product contamination sources of water or sewerage system
Methods and materials for containment, confinement or reduction	: For small spills: Absorb product with a suitable material. Water with detergents can be used to wash. For large spills: contain spill with sand or another suitable product. Pick up the material with a suitable shovel or use absorbent materials. Water with detergents can be used to wash.
Cleaning materials and methods	
Recovery	: Recovery using absorbent materials according to the type of product
Neutralization	: Does not apply
Final disposition	: Dispose waste in containers according to the nature of the product and the applicable legal provisions.
Additional measures of disaster prevention	: Manage the product with the relevant safeguards according to materials of this nature

Section 7: Handling and storage

handling	
Precautions for safe handling	: Empty containers of lubricants present certain risks. Even if they are empty they retain residues (vapor, liquid or solid), all risk prevention should be adopted.
Operational and technical measures	: Follow safety standards appropriate for management of oils and grease lubricants.
Other precautions	: Avoid contact with eyes and skin when using do not eat food, drink, or smoke, make sure to wash your hands and face before eating. When handling the product must be with the appropriate wardrobe.
Prevention of contact	: Use the safety equipment suitable for the management of lubricating oils and greases.
Storage	
Conditions for safe storage	: Keep away from any source of risk for an oil or grease lubricant, flammable or explosive compounds or oxidizing agents.
Technical measures	: Follow safety standards appropriate for management of oils and grease lubricants.
Substances and mixtures	: Avoid contact with strong oxidizing agents.
incompatible	
Material of container and/or packing	: Store in original, tightly wrapped, containers avoid contact with strong oxidizing agents.

Section 8: Exposure controls/protection personal

Maximum allowable concentration	: The product contains mineral oil. OSHA VPEL: 5,000 ppm TWA oil mist OSHA TLV: 5.00 ppm TWA oil mist
Personal protection elements	
Respiratory protection	: If the permissible limits are exceeded wear respiratory protectors covering the entire face, with a recommended or approved for organic vapors and dust, cartridge type filter NIOSH/MSHA
Hand protection	: Use of materials such as rubber gloves: neoprene.
Eye protection	: Wear approved safety glasses approved by OSHA regulation. (Refer to your safety representative).
Skin and body protection	: No information available.
Engineering measures	: No information available.

Section 9: Physical and chemical properties

Physical state	: Semi-solid.
Way that is presented	: Thixotropic semi-solid.
Color	: Dark grey
Odor	: Characteristic odour.
pH	: Not applicable, not as an aqueous solution.
Freezing point/melting point	: Grease lubricant to the 100%
Boiling point, initial boiling point and boiling range	: 371 ° C
Flash point	: > 200 ° c
Limits of explosiveness	: Non-explosive
Vapor pressure	: 2.00 hPa
Relative vapor density (air = 1)	: No information available.
Density	: 0.95
Solubility (is)	: Partially soluble in solvents such as benzene, nonpolar kerosene.
N-octanol/water partition coefficient	: Cannot be determined by present in your additive formulation that affect the measurement
Auto ignition temperature	: No information available
Decomposition temperature	: No information available.
Odor threshold	: No information available.
Evaporation rate	: Not there is information available.
Flammability	:
Viscosity	: Refer you to the tab technical

Section 10: stability and reactivity

Stability chemistry	: Stable under normal working conditions.
Dangerous reactions	: Reactions of risk are not known.
Conditions that should be avoided	: Avoid contact with strong oxidizing agents.
Materials incompatible	: Avoid contact with strong oxidizing agents.
Hazardous decomposition products	: Dangerous its natural decomposition products are not expected.

Section 11: Toxicological information

Acute toxicity (LD50 and LC50)	: Oral, practically non-toxic (LD50 > 2000 mg/Kg) based on testing of similar products and/or components. Dermal: practically non-toxic (LD50 > 2000mg/Kg) based on testing of similar products and/or components. Eyepiece: only slightly irritating. Inhalation: not applicable.
Skin irritation/corrosion	: May cause irritation, depending on the hypersensitivity of the person.
Serious damage to eyes / eye irritation	: No information available.
Respiratory or skin sensitisation	: No information available.
Mutagenicity of reproductive cells <i>in vitro</i>	: No information available.
Carcinogenicity	: No information available.
Reproductive toxicity	: No information available.
Toxicity specified in particular organs - single exposure	: No information available.
Toxicity specified in particular organs - repeated exposures	: Based on testing of similar products and/or components, this type of product does not show adverse effects in trials of contact.
Inhalation hazard	: No information available.
Toxic kinetic	: No information available.
Metabolism	: No information available.
distribution	: No information available.
Pathogenicity and infectiveness acute (oral, dermal and inhalation)	: No information available.
Endocrine disruption	: No information available.
Neurotoxicity	: No information available.
Immunotoxicity	: No information available.
"Related symptoms"	: No information available.

Section 12: Ecological information

Ecotoxicity (EC, IC and LC)	: No information available.
Persistence and degradability	: Both mineral oil and most of the additives are biodegradable.
Bioaccumulative potential	: This product is virtually biodegradable. There is no evidence that suggests a bio-accumulation from occurring.
Mobility in soil	: Accidental spills can penetrate the soil. However, there is no evidence that cause adverse effects.

Section 13: Disposal information

Waste	: Must be according to the local, federal or State regulations.
Contaminated packaging	: Using methods will be arranged by the user in accordance with the laws and regulations according to the characteristics of the product.
Contaminated material	: The disposal of contaminated material will be arranged by the user in accordance with the laws and regulations according to the characteristics of the product.

Section 14: Transport information

	Mode of transport		
	Terrestrial	Maritime	Air
Regulations	During transport, no dangerous product is not regulated.	During transport, no dangerous product is not regulated.	During transport, no dangerous product is not regulated.
Number NU	Not applied	Not applied	Not applied
Official transport designation	Not applied	Not applied	Not applied
Classification of primary danger NU	Not applied	Not applied	Not applied
Classification of secondary danger NU	Not applied	Not applied	Not applied
Packaging group	Not applied	Not applied	Not applied
Environmental hazards	Not dangerous product	Not dangerous product	Not dangerous product
Special precautions	Product not dangerous	Not dangerous product	Product not dangerous
Transport in bulk according to MARPOL 73/78, Annex II, with IBC Code			

Section 15: Regulatory information

National regulations	: Standard Chilean NCh 1411 /IV risk prevention. IV identification of material risks. Chilean standard NCh 2245:2015 chemicals - seguridad-Requisitos data sheets.
International regulations	: NFPA (National Association of fire protection).
The receiver should check the possible existence of local regulations applicable to chemical	

Section 16: Other information

Change control	: Annual
Abbreviations and acronyms	: OSHA: Occupational Safety and Health Administration, oil base: mixture of all constituent liquids of the formulation.
references	: The information obtained in the elaboration of this sheet comes from reliable sources, however are provided without warranties, express or explicit regarding their accuracy or correctness. The information provided on the sheet is known currently on the matter.