

IDROLUB

SECTION 1 IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND THE COMPANY/UNDERTAKING

1.1 Product Identifier

Denomination: IDROLUB

1.2 Relevant identified uses of the substance or mixture and uses not recommended

Wear-resistant hydraulic oil.

1.3 Safety Data Sheet Supplier Information

Carima Srl
Via dei Brughi 30/31
20060 Gessate (MI) Italy
www.carima.biz
carima@carima.biz

1.4 Emergency telephone number

For urgent information, please contact

Poison Control Center (24/24 h):

**Pavia 0382/24444;
Milan 02/66101029;
Bergamo 800/883300;
Florence
055/7947819;
Roma Gemelli 06/3054343; Rome
Umberto I 06/49978000; Rome
Bambin Gesù 06/68593726
Naples 081/7472870;
Foggia 0881/732326;
Verona 800/011858**

SECTION 2 HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Prolonged direct contact could result in eye and skin irritation. The hazards listed in point 2 refer to the product in the form marketed. The dangers are reduced if the product is used in aqueous emulsion.

Criteria EC Regulation 1272/2008 (CLP):

The product is not considered hazardous in accordance with EC Regulation 1272/2008 (CLP).

Physicochemical effects harmful to human health and the environment:

No other hazards

2.2. Label Elements.

The product is not considered hazardous in accordance with EC Regulation 1272/2008 (CLP).

Hazard pictograms: None Hazard
statements: None

Precautionary statements: None Special

provisions: None

Special provisions according to Annex XVII of REACH and subsequent amendments: Use restricted to professional users.

2.3. Other Hazards.

No PBT, vPvB or endocrine disrupting substances present in concentration $\geq 0.1\%$ Other hazards: No other hazards

SECTION 3 COMPOSITION/INGREDIENT INFORMATION

3.1. Substances.

N.O.

3.2. Mixtures.

Composition / Ingredient Information:

Mixture of Hydrocarbons

Additives

Name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]
Distillates (petroleum), solvent-dewaxed heavy paraffin fraction (Main component, see note [**], see note [***])		≥ 95	Not classified
Mineral base oil, severely refined (For identification of the substance, see note [*])		0,1 - 0,2	Asp. Tox. 1, H304

Notes:

Note [*]: This product may be formulated with one or more of the following severely refined (not classified as hazardous) mineral base oils: CAS 64742-54-7/EC 265-157-1/REACH Reg. # 01-2119484627-25-xxxx;

CAS 64742-65- 0/EC 265-169-7/REACH Reg. # 01-2119471299-27-xxxx; CAS 64742-70-7/EC 265-174-4/REACH Reg. # 01-2119487080-42-xxxx. All these substances have a DMSO extract value $< 3\%$ p according to IP 346 (Note L - Annex VI Reg (EC) 1272/2008, # 1.1.3)

Note [**]: This product has an extract value at DMSO, according to the IP 346 method, $< 3\%$ p. In accordance with the criteria set by the EU (note L, Annex VI Reg (EC) 1272/2008), this product must be considered as non-carcinogenic.

Note [***]: This product can be formulated with one or more of the following base oils (not classified as hazardous): CAS 64742-54-7/ REACH Reg. # 01-2119484627-25- XXXX; CAS 64742-65-0/ REACH Reg. # 01-2119471299- 27-XXXX; CAS 64742-65-0/ EC 265-169-7/ REACH Reg # 01-2119471299-27-XXXX/ EC index No 649-474-00-6

For the full text of the H hazard statements, see section 16.

SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures.

In case of skin contact:

High-pressure jet injuries require prompt surgery and possibly steroid therapy, to minimize tissue damage and loss of function. Any substance, in the case of accidents with pressure pipes and the like, can be accidentally injected into the subcutaneous tissues, even without apparent external injury. In this case, the injured person must be taken to hospital as soon as possible. Remove contaminated clothing. Remove contaminated clothing after starting to wash the affected parts and wash thoroughly with soap and water. Seek medical attention if necessary. During the use of high-pressure equipment, injection of product under the skin may occur. In the event of injuries caused by high-pressure jets, the injured person should be taken to hospital immediately. Wash thoroughly with soap and water.

In case of contact with eyes:

Wash your eyes immediately with plenty of water for a few minutes while keeping your eyelids open. Seek medical attention if pain and redness persist. Wash your eyes immediately with plenty of water for a few minutes while keeping your eyelids open. Seek medical attention. In case of contact with eyes, wash immediately and thoroughly with water and seek medical attention.

In case of ingestion:

Do not cause vomiting at all. SEEK MEDICAL ATTENTION IMMEDIATELY.

In case of inhalation:

In case of exposure to high concentrations of vapors and mists, remove the subject from the contaminated area and transport it to a well-ventilated place. Seek medical attention if necessary. In case of exposure to high concentrations of vapors and mists, remove the subject from the contaminated area by transporting it to a well-ventilated place and seek medical attention. Take the injured person outdoors and keep them warm and resting.

4.2. Main symptoms and effects, both acute and delayed.

Nobody.

4.3. Indication of whether you need to seek immediate medical attention and special treatments.

Treatment:

In case of exposure to high concentrations of vapors and mists, remove the subject from the contaminated area and transport it to a well-ventilated place. Seek medical attention if necessary.

SECTION 5 FIRE-FIGHTING MEASURES

5.1. Extinguishing means.

Suitable extinguishing means:

Use Class B fire extinguishing media: carbon dioxide, dry chemical dust, foam, sand, earth. Water. Carbon dioxide (CO₂).

Extinguishing agents that must not be used for safety reasons:

Avoid the use of water jets. Use water jets only to cool the surfaces of containers exposed to fire. No one in particular.

5.2. Special hazards arising from the substance or mixture.

Avoid breathing combustion fumes as a result of a fire can form compounds of chlorine, sulphur, nitrogen, unburned hydrocarbons and other potentially dangerous derivatives. Do not inhale the gases produced by the explosion and combustion. Combustion produces heavy smoke.

5.3. Recommendations for firefighters.

Note: Cool containers that are not involved in the fire but exposed to the heat from the fire with water to prevent explosion and spread of the fire. Use appropriate breathing equipment. Collect the contaminated water used to extinguish the fire separately. Do not discharge it into the sewer system. If it is safe to do so, remove undamaged containers from the area of immediate danger. Protective clothing complete with self-breathing apparatus.

SECTION 6 MEASURES IN CASE OF ACCIDENTAL RELEASE

6.1. Personal precautions, protective equipment, and emergency procedures.

Avoid contact with skin and eye contact by wearing suitable protective clothing. In the event of spillage of large quantities, particularly in confined spaces, avoid breathing vapours by ventilating the room or wear respiratory protective equipment. Wear personal protective equipment. Move people to a safe place.

Refer to the protective measures set out in points 7 and 8.

6.2. Environmental precautions.

Do not allow the product to disperse and drain into soil, sewers and surface water. If necessary, inform the relevant local authorities. Prevent penetration into the soil/subsoil. Prevent runoff into surface water or sewer system. Retain contaminated wash water and discard it. In the event of a gas leak or penetration into waterways, soil or sewage systems, inform the responsible authorities.

Material suitable for collection: absorbent material, organic, sand.

6.3. Methods and materials for containment and remediation.

In the event of accidental spillage: there is a risk of aerosol formation, which could catch fire under suitable ignition conditions. Contain in case of spillage of significant quantities of product. Contain spillage of small amounts of product with soil, sand or other absorbent inert material. Transfer to suitable waterproof containers suitable for storage. Wash with plenty of water.

6.4. Reference to other sections.

See also paragraphs 8 and 13

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling.

Avoid direct contact with the product. Avoid breathing aerosols or vapours from the product, ensuring adequate ventilation of the work environment, particularly if confined. Do not smoke or use an open flame; avoid contact with sparks or possible sources of ignition; Do not keep containers open in work environments, to avoid the formation of highly concentrated vapours. Avoid contact with skin and eyes, inhalation of vapours and mists. Please also refer to section 8 for recommended protective equipment. General recommendations on occupational hygiene: Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities.

Keep the product in the original containers stored in environments and in conditions that ensure leak control and containment. Store in a cool place, away from any source of heat or possible ignition and direct exposure. Keep away from food, drink and feed.

Incompatible Subjects: None in particular. Indication

for the rooms: Adequately ventilated rooms.

7.3. Special end-uses.

No special use.

SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. Control parameters.

None in particular under normal conditions of use. Avoid the production of mists and aerosols and their diffusion by shielding (if appropriate) of the machines and through the use of localized ventilation/suction. There are no occupational exposure limits available.

Exposure limit values DNEL N.O.

PNEC Exposure Limit Values

N.O.

8.2. Exposure controls.

Eye Protection:

Wear safety goggles where you may come into contact with the product. For more information, refer to UNI-EN 166 Not required for normal use. However, operate according to good working practices.

Skin Protection:

Use overalls and aprons made of suitable material; Change contaminated clothing immediately and wash it thoroughly before using it again. It is advisable to maintain good personal hygiene and workwear. For more information, please refer to UNI-EN 465/466/467 No special precautions are required for normal use.

Hand Protection:

Wear work gloves (e.g. neoprene, nitrile or PVC), preferably fleece on the inside, resistant to mineral oils or solvents. Gloves should be replaced at the first signs of wear. In the case of non-prolonged contacts, the use of barrier creams can be a useful protection tool. In the case of non-prolonged contacts, the use of barrier creams can be a useful protection tool. The choice of protective gloves also depends on the conditions of use and must take into account the manufacturer's instructions. For more information, please refer to UNI-EN 374 Not required for normal use.

Respiratory protection:

If the operating arrangements and other means of limiting the exposure of workers are not adequate, other means of respiratory protection are required in order to comply with the exposure limits specified in point 8. Not required for normal use.

Thermal Hazards: None

Environmental Exposure Controls: None Eligible

Engineering Controls: None

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on fundamental physical and chemical properties.

Property	Value	Method:	Notes
Physical Status:	liquid	--	--
Color:	amber	--	--
Smell:	characteristic	--	--
Swide Point:	-30°C	ASTM D 97	--
Boiling point or starting boiling point and boiling range:	Not Determined / Not Available	--	--
Inflammability:	N.O.	--	--
Lower and Upper Explosive Limits:	Not Determined / Not Available	--	--
Flash Point:	210°C	ASTM D 92	--
Auto-ignition temperature:	Not Determined / Not Available	--	--
Decomposition Temperature:	Not Determined / Not Available	--	--
pH:	Not Determined / Not Available	--	--
Kinematic viscosity:	N.A.	--	--
Water solubility:	Insoluble	--	--
Solubility in oil:	Soluble	--	--
Partition coefficient n-octanol/water (value	Not Determined / Not Available	--	--
logarithmic):			

Vapor Pressure:	Not Determined / Not Available	--	--
Density and/or Relative Density:	0.860 kg/dm ³	ASTM D 1298	--
Relative Vapor Density:	Not Determined / Not Available	--	--
PARTICLE CHARACTERISTICS			
Particle size:	N.O.	--	--

9.2. Learn more.

Property	Value	Method:	Notes
Viscosity:	32.0 cSt @ 40°C 5.5 cSt @ 100°C	ASTM D 445	--

SECTION 10 STABILITY AND RESPONSIVENESS

10.1. Reactivity.

Avoid contact with strong acids and bases and oxidizing agents. Stable under normal conditions.

10.2. Chemical stability.

Stable product at room temperature. Stable under normal conditions.

10.3. Possibility of dangerous reactions.

Nobody

10.4. Conditions to be avoided.

Stable under normal conditions

10.5. Incompatible materials.

None in particular.

10.6. Hazardous decomposition products.

Nobody.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes defined in Regulation (EC) No 1272/2008

Toxicological information about the product:

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a) Acute toxicity

Not classified

On the basis of the available data, the classification criteria are not met.

b) skin corrosion/irritation

Not classified

On the basis of the available data, the classification criteria are not met.

c) Serious eye injury/severe eye irritation

Not classified

On the basis of the available data, the classification criteria are not met.

d) respiratory or skin sensitization

Not classified

On the basis of the available data, the classification criteria are not met.

e) Germ Cell Mutagenicity

Unclassified

On the basis of the available data, the classification criteria are not met.

f) carcinogenicity

Not classified

On the basis of the available data, the classification criteria are not met.

g) toxicity to reproduction

Unclassified

On the basis of the available data, the classification criteria are not met.

h) Specific Target Organ Toxicity (STOT) - Single Exposure

Unclassified

On the basis of the available data, the classification criteria are not met.

i) Specific Target Organ Toxicity (STOT) - Repeated Exposure

Unclassified

On the basis of the available data, the classification criteria are not met.

j) Suction hazard Not classified

On the basis of the available data, the classification criteria are not met.

Toxicological information on the main substances present in the product: N.A.

11.2. Information on Other Hazards

Endocrine disrupting properties:

No endocrine disruptors present in concentration $\geq 0.1\%$

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity.

Use according to good working practices, avoiding dispersing the product into the environment.

IDROLUB

Not rated for environmental hazards.

On the basis of the available data, the classification criteria are not met.

12.2. Persistence and degradability.

While not classified as hazardous to the environment, the product is not considered to be easily biodegradable

The product sinks in water (if the density is >1)

The product floats on water (if the density is <1)

The product is easily dispersed in the soil

The product is easily dispersible in water

The product is easily absorbed into the soil

The product evaporates and can easily disperse into the

air The product floats on water (if the density is <1)

The product is adsorbed superficially into the soil The

product hardly evaporates

12.3. Potential for bioaccumulation.

N.O.

12.4. Mobility in the soil.

N.O.

12.5. PBT and vPvB assessment results.

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptors present in concentration $\geq 0.1\%$

12.7. Other adverse effects.

Nobody.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Dispose of the exhausted products (and emulsions in the case of water-soluble cooling lubricants) and the containers by handing them over to authorized companies in accordance with the provisions contained in Presidential Decree no. 691 of 23/08/82 (Mandatory Consortium of Used Oils). Do not discharge into sewers, tunnels, or waterways. Comply with applicable laws Recover if possible. Operate in accordance with current local and national regulations.

SECTION 14 TRANSPORTATION INFORMATION

The product is not to be considered dangerous under the regulations in force on the transport of dangerous goods by road (A.D.R.), by rail (RID), by sea (IMDG Code) and by air (IATA).

14.1 UN Number; 14.2. UN Shipping Name; 14.3. Classes of Transport-Related Hazards; 14.4. Packaging unit ;14.5. Hazards to the environment; 14.6. Special Precautions for Users

Not applicable

14.7. Carriage of bulk cargo according to Annex II of MARPOL 73/78 and IBC code

Not applicable

SECTION 15 REGULATORY INFORMATION

15.1. Health, safety and environmental standards and legislation specific to the substance or mixture.

Legislative Decree 9/4/2008 n. 81
D.M. Labour 26/02/2004 (Occupational exposure limits) Regulation
(EC) No. 1907/2006 (REACH)
Regulation (EC) No 1272/2008 (CLP)
Regulation (EC) No 790/2009 (ATP 1 CLP) and (EU) No 758/2013
Regulation (EU) 2020/878
Regolamento (EU) n. 286/2011 (ATP 2 CLP)
Regolamento (EU) n. 618/2012 (ATP 3 CLP)
Regolamento (EU) n. 487/2013 (ATP 4 CLP)
Regolamento (EU) n. 944/2013 (ATP 5 CLP)
Regolamento (EU) n. 605/2014 (ATP 6 CLP)
Regolamento (EU) n. 2015/1221 (ATP 7 CLP)
Regolamento (EU) n. 2016/918 (ATP 8 CLP)
Regolamento (EU) n. 2016/1179 (ATP 9 CLP)
Regolamento (EU) n. 2017/776 (ATP 10 CLP)
Regolamento (EU) n. 2018/669 (ATP 11 CLP)
Regolamento (EU) n. 2018/1480 (ATP 13 CLP)
Regolamento (EU) n. 2019/521 (ATP 12 CLP)
Regolamento (EU) n. 2020/217 (ATP 14 CLP)
Regolamento (EU) n. 2020/1182 (ATP 15 CLP)
Regolamento (EU) n. 2021/643 (ATP 16 CLP)

Restrictions on the product or substances contained in accordance with Annex XVII of Regulation (EC) 1907/2006 (REACH) and subsequent amendments:

Product Restrictions: No restrictions.

Restrictions on substances contained:
Restriction 28

Where applicable, reference should be made to the following regulations: Ministerial Circulars 46 and 61 (Aromatic amines). Directive 2012/18/EU (Seveso III)

Regulation 648/2004/EC (detergents).

D.L. 3/4/2006 n. 152 Environmental regulations Dir. 2004/42/EC (VOC Directive)

Ministerial Decree of 13 February 2003: third summary list of harmonised standards concerning the implementation of Directive 89/686/EEC on personal protective equipment. Legislative Decree No. 81 of 9/4/2008: Implementation of Article 1 of Law 3

Ministerial Decree of 14 January 2008: List of diseases for which reporting is mandatory pursuant to and for the purposes of Article 139 of the Consolidated Law approved by Decree of the President of the Republic no. 1124 of 30 June 1965, and subsequent amendments.

Provisions relating to EU Directive 2012/18 (Seveso III): Category
Seveso III in accordance with Annex 1, part 1
Nobody

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for the mixture.

SECTION 16 OTHER INFORMATION

Do not use the product for any use other than its intended use. In this case, the user may be subject to risks that are not

Budgeted. This form has been compiled in accordance with the guidelines for the preparation of Safety Data Sheets for lubricants drawn up by the Industrial Lubrication Companies Group (Gail) – Website: <http://aispec.federchimica.it>.

This fact sheet has been revised in all its sections in accordance with Regulation 2020/878.

This document has been prepared by a competent technician in the field of SDS and who has received appropriate training. Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition – Van Nostrand Reinold

CCNL - Allegato 1

Istituto Superiore di Sanità - National Inventory of Chemical Substances.

The information contained herein is based on our knowledge as of the date above. They refer only to the product indicated and do not constitute a guarantee of particular quality. The user is responsible for ensuring that this information is suitable and complete in relation to the specific use to be made of it.

This tab cancels and replaces each previous edition.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. CAS: Chemical Abstracts Service (divisione della American Chemical Society).
CLP: Classification, labelling, packaging.
DNEL: Derived layer with no effect.
EINECS: European Inventory of Commercially Available European Chemicals.
GefStoffVO: Ordinance on Hazardous Substances in Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals. IATA: International Air Transport Association.
IATA-DGR: International Air Transport Association (IATA) Dangerous Goods Regulations. ICAO: International Civil Aviation Organization.
ICAO-TI: Technical instructions of the "International Civil Aviation Organization" (ICAO). IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
KSt: Explosion coefficient.
LC50: Lethal concentration for 50 percent of the test population. LD50: Lethal dose for 50 percent of the test population.
PNEC: Predicted concentration with no effect.
RID: Regulation concerning the international carriage of dangerous goods by rail. STEL: Short-term exposure limit.
STOT: Organ-specific toxicity.
TLV: Threshold limit value.
TWA: Time-weighted average
WGK: Water hazard class (Germany).