Safety Data Sheet dated 1/2/2023, version 1

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

1.1. Product identifier

Mixture identification:

Trade name: HYDRAULIC 15
Trade code: REUOI-233

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use:
Hydraulic oil

1.3. Details of the supplier of the safety data sheet

Company:
RILUB S.p.A.
Via FF. SS. 139
80044 Ottaviano (NA)
Tel. (+39) 081 3383413
Competent person responsible for the safety data sheet:
infolab@rilub.it

1.4. Emergency telephone number

Poison Control Center: Az. Osp. "A. Cardarelli" Naples - Tel. 081 5453333

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Direct and prolonged contact can cause eye and skin irritation.
Hazards reported in section 2 are referred to the product in the finished form.
Hazards are reduced if the product is used in water emulsion.
EC regulation criteria 1272/2008 (CLP)
The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
Adverse physicochemical, human health and environmental effects:
No other hazards

2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
Hazard pictograms:
None
Hazard statements:
None
Precautionary statements:
None
Special Provisions:
EUH210 Safety data sheet available on request.
Special provisions according to Annex XVII of REACH and subsequent amendments:
None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%
Other Hazards:
No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 90%	SN 70 Distillati (petrolio), frazione paraffinica leggera raffinata con solvente		3.10/1 Asp. Tox. 1 H304

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Injuries due to high pressure jets require a prompt surgical intervention and possibly a steroids therapy, to minimize tissue damage and loss of functions.
Every substance, in case of accidents with high pressure pipes or similar, can be accidentaly injected under skin tissue, even without external noticeable skin damage. In this case it's necessary to bring the injured as soon as possible to the hospital for required treatment.
Remove contaminated clothes.
Remove contaminated clothes after having started washing of affected body parts and wash thoroughly with water and soap. Immediately call a doctor if necessary.
During usage of high pressure equipment, injection of the product under the skin is possible.
In case of injuries due to high pressure jets, injured should be immediately accompanied to the hospital. Don't wait for symptoms to appear.
Wash with plenty of water and soap.

In case of eyes contact:

Wash eyes immediately with plenty of water for some minute leaving eyelids open.
Immediately call a doctor if pain and redness persists.
Wash eyes immediately with plenty of water for some minute leaving eyelids open.
Immediately call a doctor.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting.
OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

In case of exposition to high concentration of vapours and mist remove person from the contaminated area and move to a well ventilated place.
Call for medical attention if necessary.
In case of exposition to high concentration of vapours and mist remove person from the contaminated area, move to a well ventilated place and ask for medical attention.
Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

None

4.3. Indication of any immediate medical attention and special treatment needed

Treatment:
In case of exposition to high concentration of vapours and mist remove person from the contaminated area and move to a well ventilated place.
Call for medical attention if necessary.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Use class B fire extinguishing media: carbon dioxide, dry chemical powder, foam, sand, earth.
Water.
Carbon dioxide (CO_2).
Extinguishing media which must not be used for safety reasons:

Avoid usage of water jets. Use water only to cool the surface of the container exposed to fire.
None in particular.

5.2. Special hazards arising from the substance or mixture

Avoid to breathe combustion smoke, because, as a result of fire, chlorine, sulfur, nitrogen and unburnt hydrocarbons compounds can be formed, as long as other potentially dangerous compounds.
Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

5.3. Advice for firefighters

Note: Cool with water all the containers not involved in fire but exposed to heat of fire, to avoid eventual explosion and propagation of fire.
Use suitable breathing apparatus.
Collect contaminated fire extinguishing water separately.
This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.
Full protective suit equipped with respiratory equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes, using appropriate protective equipments.
In case of spillage of relevant quantities, most of all if in confined environment, avoid to breathe vapours and ventilate the environment, or use protective equipment for respiration.
Wear personal protection equipment.
Remove persons to safety.
See protective measures under point 7 and 8.

6.2. Environmental precautions

Avoid dispersion of the product and penetration in the soil, in the sewers or in surface water.
If necessary inform competent local authorities.
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

In case of spill or leakage: danger of aerosol formation, which may, under appropriate condition of ignition, catch fire.
Stem in case of spillage of relevant quantities of product. Contains the spill of little quantities of product with earth, sand or other inert absorbing material. Transfer in appropriate impermeable containers, adequate for storage and transport of recovered material.
Dispose according to current regulation.
Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid direct contact with the product.
Avoid to breathe aerosol or vapours of the product, ensuring an adequate ventilation of workplace, most of all if confined.
Don't smoke or use open flames; avoid contact with sparks or possible sources of ignition; do not keep open containers in the workplace, in order to avoid formation of highly concentrated vapours.
Avoid contact with skin and eyes, inhalation of vapours and mists.
See also section 8 for recommended protective equipment.
Advice on general occupational hygiene:

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Maintain the product in original containers, stored in an environment and conditions such as is possible to ensure control and containment of leakage. Store in a cool place, away from any heat source or possible ignition and from exposure to sun light. Avoid accumulating electrostatic charge. Containers must be maintained closed.
Ensure adequate ventilation of the room.
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No specific requirements in normal conditions of use.
Avoid generation of mists or aerosol and their diffusion through machine protection (if appropriate) and through the usage of localized ventilation/aspiration.
No occupational exposure limit available

DNEL Exposure Limit Values

SN 70 Distillati (petrolio), frazione paraffinica leggera raffinata con solvente

Worker Industry: 5.4 rilub03 - Worker Professional: 5.4 rilub03 - Exposure: Human Inhalation - Frequency: Long Term (Systemic effect)
Consumer: 1.2 rilub03 - Exposure: Human Inhalation - Frequency: Long Term (Local effect)

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

Wear safety glasses whenever is possible to come in contact with the product.
For more information refer to UNI-EN 166 standard.
Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

Use full suit and apron in suitable material; change immediately contaminated clothes and wash carefully before reuse.
It's advisable to maintain good personal and work clothes hygiene.
For more information refer to UNI-EN 465/466/467 standard.
No special precaution must be adopted for normal use.

Protection for hands:

Wear work gloves (for example in neoprene, nitrile or PVC), preferably with inner cover, resistant to mineral oils or solvents. Gloves must be changed when signs of wear are visible.
Wear gloves after an adequate cleaning of the hands.
In case of not prolonged contacts, use of barrier creams may be an useful protection equipment.
In case of not prolonged contacts, use of barrier creams may be an useful protection equipment.
Choice of protective gloves depends also on use conditions and needs to consider the information from the supplier.
For more information refer to UNI-EN 374 standard.
Not needed for normal use.

Respiratory protection:

Whenever operational conditions and other equipment to limit workers exposure will be not adequate to respect exposure limits as specified in section 8, other protective equipments for

respiratory ways are needed: mask with filter for organic vapours and for dusts/mists (e.g. active carbon mask)
Not needed for normal use.

Thermal Hazards:
None

Environmental exposure controls:
None

Appropriate engineering controls:
None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	liquid	--	--
Colour:	amber	--	--
Odour:	caratteristico	--	--
Melting point/freezing point:	-27°C	ASTM D 97	--
Boiling point or initial boiling point and boiling range:	Not defined/ Not available	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	Not defined/ Not available	--	--
Flash point:	220°C	ASTM D 92	--
Auto-ignition temperature:	Not defined/ Not available	--	--
Decomposition temperature:	Not defined/ Not available	--	--
pH:	Not defined/ Not available	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	Insolubile	--	--
Solubility in oil:	Solubile	--	--
Partition coefficient n-octanol/water (log value):	Not defined/ Not available	--	--
Vapour pressure:	Not defined/ Not available	--	--
Density and/or relative density:	0.850 kg/dm³	ASTM D 4052	--
Relative vapour density:	Not defined/ Not available	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes
Viscosity:	15.0 cSt @ 40°C - 3.5 cSt @ 100°C	ASTM D 445	--

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Product is stable to room temperature.
Stable under normal conditions.

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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

Toxicological information of the product:

HYDRAULIC 15

a) acute toxicity

Not classified
Based on available data, the classification criteria are not met

b) skin corrosion/irritation

Not classified
Based on available data, the classification criteria are not met

c) serious eye damage/irritation

Not classified
Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation

Not classified
Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified
Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified
Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified
Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified
Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified
Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified
Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

SN 70 Distillati (petrolio), frazione paraffinica leggera raffinata con solvente

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 5000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rabbit > 5 mg/l - Duration: 4h

Test: Lowest Observed Adverse Effect Level - Route: Oral - Species: Rat 125 rilub01 - Notes: 90 giorni

11.2. Information on other hazards

Endocrine disrupting properties:
No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.
HYDRAULIC 15
Not classified for environmental hazards
Based on available data, the classification criteria are not met
SN 70 Distillati (petrolio), frazione paraffinica leggera raffinata con solvente
Acute aquatic toxicity:
Endpoint: LC50 - Species: Daphnia > 100 mg/l
Endpoint: EC50 - Species: Daphnia > 10000 mg/l - Duration h: 48 - Notes: WAF

12.2. Persistence and degradability

Although the product is not classified hazardous for the environment, it is believed that it's not easily biodegradable.
The product sinks in the water (if the density is >1)
The product floats on the water (if density is <1)
Product is easily dispersible in the soil.
Product is easily dispersible in water.
Product is easily absorbed in the soil.
Product evaporates and can be easily dispersed in the air.
The product floats on the water (if density is <1)
Product is adsorbed superficially in the soil.
The product evaporates difficultly.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose product (and emulsions in case of water-soluble lubrorefrigerants products) and containers sending it to approved companies, paying attention to obligations of DPR n.691 of 23/08/82 (Mandatory consortium for used oils) and Part IV of the Environmental code (D.Lgs. n. 152 of 3/4/2006) and updates
Don't discharge in sewers, tunnels or water courses. Follow current legal obligations.
Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

N.A.

14.6. Special precautions for user

N.A.

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

No restriction.

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)
D.M. of 13 february 2003: third list of harmonized laws concerning the implementation of directive 89/686/CEE on personal protective equipment. D. Lgs. N. 81 of 9/4/2008: implementation of article 1 of Law 3 august 2007, n. 123, on health and security safeguard in the workplace.
D.M. 14 january 2008: List of diseases for which is mandatory a report according to article 139 of Testo Unico, approved with decree of the President of the Italian Republic 30 june 1965, n. 1124, and subsequent integrations. D.P.R. n. 689 of 26/05/1959: Determination of companies and processes subject to control of the Fire protection command, to enhance fire

protection. Directive 98/8/CE of 16 february 1998 on placing of biocidal products on the market.

Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Don't use this product for uses different from those identified. In this case user may be subject to risk not evaluated.
This sheet has been compiled in accordance to Guidance on preparation of Safety Data Sheets for lubricants, prepared by the Industrial Group of Lube Companies (GAIL) - Website: http://aispec.federchimica.it
Full text of phrases referred to in Section 3:
H304 May be fatal if swallowed and enters airways.

Hazard class and hazard category	Code	Description
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1

This safety data sheet has been completely updated in compliance to Regulation 2020/878.

This document was prepared by a competent person 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
The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate
ATEmix: Acute toxicity Estimate (Mixtures)
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CLP: Classification, Labeling, Packaging.
DNEL: Derived No Effect Level.
EINECS: European Inventory of Existing Commercial Chemical Substances.
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by 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 test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.