

Issued on 05/31/2018 - Rel. # 1 on 05/31/2018

In conformity to Regulation (EU) 2015/830

SECTION1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product code : ROTAR ECOFLUID 46 OIL #600000020, #600000021, #600000022
 Trades code : 6000000

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

Lubricant for compressor.

Sectors of use:

Industrial Manufacturing (all)[SU3], Public domain (administration, education, entertainment, services, craftsmen)[SU22]

Product category:

Lubricants, Greases and Release Products

Process categories:

Use in closed, continuous process with occasional controlled exposure[PROC2]

Uses advised against

This material should not be used for other purposes than those specified without the advice of an expert.

1.3. Details of the supplier of the safety data sheet

FNA SPA

Via Einaudi, 6

10070 Robassomero (TO), Italy

Tel: +39 011 9233000

1.4. Emergency telephone number

- Osp. Niguarda Ca' Granda Milano Piazza Ospedale Maggiore,3 20162 tel 02 66101029
- CAV Osp. Pediatrico Bambino Gesù Roma Piazza Sant'Onofrio, 4 00165 tel 06 68593726
- Az. Osp. Univ. Foggia Foggia V.le Luigi Pinto, 1 71122 tel 0881 732326
- Az. Osp. "A. Cardarelli" Napoli Via A. Cardarelli, 9 80131 tel 081 7472870
- CAV Policlinico "Umberto I" Roma V.le del Policlinico, 155 00161 tel 06 49978000
- CAV Policlinico "A. Gemelli" Roma Largo Agostino Gemelli, 8 00168 tel 06 3054343
- Az. Osp. "Careggi" U.O. Tossicologia Medica Firenze Largo Brambilla, 3 50134 tel 055 7947819
- CAV Centro Nazionale di Informazione Tossicologica Pavia Via Salvatore Maugeri, 10 27100 tel 0382 24444
- Azienda Ospedaliera Papa Giovanni XXII Bergamo Piazza OMS, 1 24127 te 800 883 300

Bring the injured to the nearest emergency room. Accompanied by the Safety Data Sheet.

SECTION2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

None

Hazard Class and Category Code(s):

Nonhazardous

Hazard statement Code(s):



SAFETY DATA SHEET
ROTAR ECOFLUID 46 OIL
#600000020, #600000021, #600000022

Issued on 05/31/2018 - Rel. # 1 on 05/31/2018

In conformity to Regulation (EU) 2015/830

Nonhazardous

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

None

Hazard statement Code(s):

Nonhazardous

Supplemental Hazard statement Code(s):

EUH210 - Safety data sheet available on request.

Precautionary statements:

None in particular.

2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

No information on other hazards

SECTION3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Lubricating oils; Baseoil - unspecified contains less than 3 % DMSO extract as measured by IP 346

Note H - The classification and labelling shown for this substance applies to the hazardous property(ies) indicated by the hazard statement(s) in combination with the hazard class(es) and category(ies) shown. The requirements of Article 4 for manufacturers, importers or downstream users of this substance apply to all other hazard classes and categories. For hazard classes where the route of exposure or the nature of the effects leads to a differentiation of the classification of the hazard class, the manufacturer, importer or downstream user is required to consider the routes of exposure or the nature of the effects not already considered. The final label shall follow the requirements of Article 17 and of section 1.2 of Annex I.

Note L - The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
Lubricating oils; Baseoil - unspecified Note: H L	> 50 <= 100%	Asp. Tox. 1, H304	649-484-00-0	74869-22-0	278-012-2	01-2119495 601-36



SAFETY DATA SHEET
ROTAR ECOFLUID 46 OIL
#600000020, #600000021, #600000022

Issued on 05/31/2018 - Rel. # 1 on 05/31/2018

In conformity to Regulation (EU) 2015/830

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
-----------	---------------	----------------	-------	-----	--------	-------

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Wash thoroughly with soap and running water.

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water for at least 10 minutes.

Ingestion:

Do not induce vomiting to avoid aspiration of product into the lungs. If the person is conscious, rinse the mouth with water without swallowing. Keep at rest. Call a doctor or take to the hospital. If the person is not conscious, keep in a lateral position of safety. In case of spontaneous vomiting, keep the head down, avoid the risk of aspiration into the lungs. Do not give anything by mouth to an unconscious person.

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

Refer to section 11.

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

No data available.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Advised extinguishing agents:

Water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

Don't breathe combustion fumes: fire can form harmful compounds.

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective suit.



SAFETY DATA SHEET
ROTAR ECOFLUID 46 OIL
#600000020, #600000021, #600000022

Issued on 05/31/2018 - Rel. # 1 on 05/31/2018

In conformity to Regulation (EU) 2015/830

The spray water can be used to protect the people involved in the extinction
You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use
halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)
Keep containers cool with water spray

SECTION6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:
Wear gloves and protective clothing

6.1.2 For emergency responders:
Wear gloves and protective clothing
Eliminate all unguarded flames and possible sources of ignition. No smoking.
Provision of sufficient ventilation.
Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spill with earth or sand.
If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the the
authorities.
Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:
Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.
Prevent it from entering the sewer system.

6.3.2 For cleaning up:
After wiping up, wash with water the area and materials involved

6.3.3 Other information:
None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors
At work do not eat or drink.
See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Issued on 05/31/2018 - Rel. # 1 on 05/31/2018

In conformity to Regulation (EU) 2015/830

Keep in original container closed tightly. Do not store in open or unlabeled containers.
 Keep containers upright and safe by avoiding the possibility of falls or collisions.
 Store in a cool place, away from sources of heat and direct exposure of sunlight.

7.3. Specific end use(s)

Industrial Manufacturing (all):
 use gloves, goggles and protective clothing; Store in a well-ventilated area

Public domain (administration, education, entertainment, services, craftsmen):
 use gloves, goggles and protective clothing; Store in closed, well-ventilated place.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

OEL: oil mists - TLV/TWA (8 h) : 5 mg/m³ - TLV/STEL: 10 mg/m³

8.2. Exposure controls

Appropriate engineering controls:
 Industrial Manufacturing (all):
 none

Public domain (administration, education, entertainment, services, craftsmen):
 none

Individual protection measures:

(a) Eye / face protection
 Not needed for normal use.

(b) Skin protection

(i) Hand protection
 Wear gloves (for example made of neoprene, nitrile or PVC) for work, preferably with internal plush, resistant to mineral oils or solvents. The gloves must be replaced at the first signs of wear. Wear gloves after proper hand cleaning. In the case of non-prolonged contacts, the use of barrier creams can be a useful protection.
 In the case of non-prolonged contacts, the use of barrier creams can be a useful protection.
 The choice of protective gloves also depends on the conditions of use and must take into account the manufacturer's instructions.
 For more information, refer to the UNI-EN 374 standard.
 Not required for normal use of hands.

(ii) Other
 Wear normal work clothing.

(c) Respiratory protection
 Not needed for normal use.

(d) Thermal hazards
 No hazard to report





SAFETY DATA SHEET
ROTAR ECOFLUID 46 OIL
#600000020, #600000021, #600000022

Issued on 05/31/2018 - Rel. # 1 on 05/31/2018

In conformity to Regulation (EU) 2015/830

Environmental exposure controls:

Use according to good working practices to avoid pollution into the environment.

SECTION9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	Viscous liquid	Visual examination
Odour	Irrelevant	Organoleptic examination
Odour threshold	Not determined	
pH	Not applicable	
Melting point/freezing point	Not determined	
Initial boiling point and boiling range	Not determined	
Flash point	220°C	ASTM D 92
Evaporation rate	Not determined	
Flammability (solid, gas)	Not determined	
Upper/lower flammability or explosive limits	Not determined	
Vapour pressure	Not determined	
Vapour density	Not determined	
Relative density	877 kg/m ³ at 15 °C	ASTM D 4052
Solubility	In oil and hydrocarbons	
Water solubility	Not soluble	
Partition coefficient: n-octanol/water	Not determined	
Auto-ignition temperature	Not determined	
Decomposition temperature	Not determined	
Viscosity	46 cSt at 40°C // 6,8 cSt at 100°C	ASTM D 445
Explosive properties	Not determined	
Oxidising properties	Not determined	

9.2. Other information

Viscosity Index: 102 (ASTM D 2270)
 Pour Point: -33°C (ASTM D 97)
 TAN: 0,09 mgKOH/g (ASTM D 664)
 Water Separability 40/37/3 mins: 15 (ASTM D 1401)
 Copper Strip Corrosion: 1b (ASTM D 130)
 Foam Sequence I, ml: 30/0 (ASTM D 892)
 Foam Sequence II, ml: 50/0 (ASTM D 892)
 Foam Sequence III, ml: 30/0 (ASTM D 892)
 RPVOT, min: Min. 1000 (ASTM D 2272)

SECTION10. Stability and reactivity



SAFETY DATA SHEET
ROTAR ECOFLUID 46 OIL
#600000020, #600000021, #600000022

Issued on 05/31/2018 - Rel. # 1 on 05/31/2018

In conformity to Regulation (EU) 2015/830

10.1. Reactivity

Read carefully all information provided in other sections of heading 10.

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions expected under normal conditions of use.

10.4. Conditions to avoid

This product must be kept far from heat sources. In any case, avoid exposing product to temperatures above the flash point.

10.5. Incompatible materials

Strong oxidizing agents, hard acids and bases.

10.6. Hazardous decomposition products

Oxides of carbon, compounds of sulphur, phosphorus, nitrogen and hydrogen sulfide.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

ATE(mix) oral = ∞

ATE(mix) dermal = ∞

ATE(mix) inhal = ∞

- (a) acute toxicity: based on available data, the classification criteria are not met.
- (b) skin corrosion/irritation based on available data, the classification criteria are not met.
- (c) serious eye damage/irritation: based on available data, the classification criteria are not met.
- (d) respiratory or skin sensitization: based on available data, the classification criteria are not met.
- (e) germ cell mutagenicity: based on available data, the classification criteria are not met.
- (f) carcinogenicity: based on available data, the classification criteria are not met.
- (g) reproductive toxicity: based on available data, the classification criteria are not met.
- (h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
- (i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not met.
- (j) aspiration hazard: based on available data, the classification criteria are not met

SECTION 12. Ecological information



SAFETY DATA SHEET
ROTAR ECOFLUID 46 OIL
#600000020, #600000021, #600000022

Issued on 05/31/2018 - Rel. # 1 on 05/31/2018

In conformity to Regulation (EU) 2015/830

12.1. Toxicity

Use according to good working practices to avoid pollution into the environment.

This product is not classified dangerous for the environment.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

Because the dispersion in the environment may result in contamination of environmental matrix (soil, subsoil, surface water and groundwater), do not release in the environment.

12.5. Results of PBT and vPvB assessment

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

12.6. Other adverse effects

No adverse effects

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.
Recover if possible. Operate according to local or national regulations

- Code (s) for the disposal of the European Waste Catalog (Decision 2001/118 / EC):

13 02 05 * (Scraps of mineral oil for engines, gears and lubrication, non-chlorinated).

The CER code mentioned is for reference only, chosen based on the initial composition of the product and the intended use, the choice is made by the end user on the basis of the actual use of the product and any alterations or contaminations.

- Additional indications:

Soaking, polluted rags, paper or other organic materials are a fire hazard and must be checked and disposed of. Empty containers may contain combustible product residues. Do not pierce, cut, weld, braze, burn or incinerate uncleaned empty containers or drums.

- Additional information :



SAFETY DATA SHEET
ROTAR ECOFLUID 46 OIL
#600000020, #600000021, #600000022

Issued on 05/31/2018 - Rel. # 1 on 05/31/2018

In conformity to Regulation (EU) 2015/830

It does not contain halogenated compounds.

- For contaminated containers:

Observe local regulations. Empty the container completely. Uncontaminated packaging can be reused. Packaging that can not be cleaned should be disposed of as the material.

Empty containers should be transported to an authorized recycling or disposal site.

* 15 01 10 -Packaging containing residues of dangerous substances or contaminated by these substances.

* 15 01 04 - Metal packaging containing residues of dangerous substances or contaminated by these substances.

* 15 01 02 -Plastic packaging containing residues of dangerous substances or contaminated by these substances.

SECTION14. Transport information

14.1. UN number

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

It is not intended to carry bulk

SECTION15. Regulatory information

Issued on 05/31/2018 - Rel. # 1 on 05/31/2018

In conformity to Regulation (EU) 2015/830

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

No data available.

15.2. Chemical safety assessment

The supplier has made an assessment of chemical safety

SECTION 16. Other information**16.1. Other information**

Description of the hazard statements exposed to point 3

H304 = May be fatal if swallowed and enters airways.

Classification based on data of all mixture components

Further reading:

Directive 67/548 29 ° adaptation

Directive 1999/45 / EC

Directive 2001/60 / EC

Regulation 1272/2008 / EC and its amendments

Regulation (EU) 453/2010 and subsequent updates

Regulation (EU) 529/2012 and subsequent updates

Regulation (EU) 605/2014 and subsequent updates

Regulation (EU) 830/2015 and subsequent updates

ADR - IMDG - IATA updated ADR Regulations 2015 and subsequent amendments

*** This sheet supersedes all previous editions.

www.hccl.ie