

Codice/Code	ST105.30	Rev. 0	Data/Date	16/09/2015
Titolo/Title	<b>OLIO V-Life OEM / V-Life OEM OIL</b>			
Emessa da / Issued by	UT	Approvata da / Approved by		

**DESCRIZIONE GENERALE**

V-Life OEM è un olio per compressori d'aria di elevata qualità, formulato per assicurare lubrificazione ottimale per compressori a palette con temperature ambiente da -5°C e operative fino a 130°C.

V-Life OEM può essere utilizzato in compressori per aria respirabile, purché sia montato l'apparato di depurazione a valle per assicurare che l'aria prodotta risponda agli standard richiesti.

**APPROVAZIONI**

V-Life OEM supera le seguenti specifiche:

- ISO 6743-3A-L DAA Normal Duty
- DIN 51506 VBL

**VANTAGGI**

I vantaggi ottenibili con V-Life OEM sono:  
- lunga vita dell'olio con un risparmio sulla manutenzione;  
- eccezionale protezione dall'usura;  
- mantenimento dell'efficienza del sistema  
- aumento della sicurezza delle linee aria

**COMPATIBILITÀ**

V-Life OEM non presenta incompatibilità alcuna con i componenti degli impianti, pertanto non necessita di alcuna precauzione in tal senso.  
V-Life OEM può essere miscelato in ogni proporzione con gli oli minerali destinati agli stessi impieghi.

**MANEGGIAMENTO E STOCCAGGIO**

V-Life OEM non è facilmente infiammabile ed il contatto non presenta particolari rischi per la salute degli operatori.  
Per maggiori informazioni consultare la scheda di sicurezza.

**GENERAL INFORMATION**

V-Life OEM is a high quality air compressor oil, specifically designed to deliver high performance in vane compressors from -5°C ambient and up to 130°C operating temperatures.

V-Life OEM may be used in breathing air compressors, provided that an appropriate air treatment system is fitted, to ensure that the air produced meets the required standards.

**APPROVALS**

V-Life OEM meets the following specification::

- ISO 6743-3A-L DAA Normal Duty
- DIN 51506 VBL

**BENEFITS**

The benefits of V-Life OEM are :

- long oil life and maintenance costs saving;
- outstanding wear protection;
- high system efficiency;
- enhanced air line safety

**COMPATIBILITY**

V-Life OEM is fully compatible with mineral oils and does not require any special precaution in this sense.  
V-Life OEM oil may be mixed in any proportion with any mineral oil developed for the same applications.

**HANDLING AND STORAGE**

V-Life OEM oils have a high flashpoint and physical contact does not represent any particular health risk for the user. For further information, refer to the product safety sheet.

**Caratteristiche**

Densità a 15 °C		kg/m <sup>3</sup>	0,885
Viscosità a 100 °C	(ASTM D 445)	cSt	7,82
Viscosità a 40 °C	(ASTM D 445)	cSt	68,5
Indice di viscosità	(ASTM D 2270)	-	> 100
Ceneri solfatate	(ASTM D 1298)	%m	0,06
T.A.N.	(ASTM D 664)		0,3
Scorrimento	(ASTM D 97)	°C	< -30
Infiammabilità C.O.C.	(ASTM D-92)	°C	> 230
Prevenzione antiruggine	(ASTM D 1401)		PASS

**Characteristics**

Density @ 15°C		kg/m <sup>3</sup>	0,885
Viscosity @ 100°C	(ASTM D 445)	cSt	7,82
Viscosity @ 40°C	(ASTM D 445)	cSt	68,5
Viscosity Index	(ASTM D 2270)	-	> 100
Sulphated Ash	(ASTM D 1298)	%m	0,06
T.A.N.	(ASTM D 664)		0,3
Pour Point	(ASTM D 97)	°C	< -30
Flash Point, C.O.C.	(ASTM D-92)	°C	> 230
Rust test	(ASTM D 1401)		PASS

		<b>SPECIFICA TECNICA VARIE</b> <i>Various technical specification</i>		
Codice/Code	ST105.31	Rev. 0	Data/Date	07/09/2015
Titolo/Title	<b>V-Life OEM OIL</b>			
Emessa da / Issued by	UT	Approvata da / Approved by		

## MATERIAL SAFETY DATA SHEET



### 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY

#### 1.1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE

<b>Substance / Mixture</b>	<b>V-Life OEM</b>
<b>Synonyms</b>	
<b>CAS Number</b>	n.a.
<b>CE Number</b>	n.a.
<b>INDEX Number</b>	n.a.
<b>Num.Registr.REACH</b>	n.a.
<b>Chemical Formula</b>	n.a.
<b>Molecular Weight</b>	n.a.

#### 1.2 Use of substance / preparation

**Common use** Compressor oil.

**Identified uses of the chemical safety report**

#### 1.3 Company Identification

Ing. Enea Mattei S.p.A.  
 Strada Padana Superiore, 307 - 20090 Vimodrone – ITALY  
 Tel.(+39) 02.25305.1 r.a. – Fax (+39) 02.25305243  
 e-mail: [progettazione@mattei.it](mailto:progettazione@mattei.it) contact: Ing. Enea Mattei S.p.A.  
 Emergency telephone number: Poison Center - Ospedale Niguarda Milano – ITALY - Tel. +39 02-66101029

#### 1.4 Emergency telephone number

Italy: Poison control center of Niguarda Hospital (Italy) Tel. +39.02 6610.1029 (24h)  
 Foreign countries: Contact the nearest poison control center.

### 2 - HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Hazards** No specific hazard under normal conditions. The product does not present risks under normal operating conditions.

**Classification according to Directive 67/548 / EEC O 1999/45 / EC: NOT CLASSIFIED**  
**Classification according to Regulation (EC) n. 1272/2008 (EU-GHS / CLP): NOT CLASSIFIED**

- Prolonged direct contact may cause irritation to the eyes and skin

		<b>SPECIFICA TECNICA VARIE</b> <i>Various technical specification</i>		
Codice/Code	ST105.31	Rev. 0	Data/Date	07/09/2015
Titolo/Title	<b>V-Life OEM OIL</b>			
Emessa da / Issued by	UT	Approvata da / Approved by		

## 2.2 Elements of label

The product, according to EC directives or national legislation, is not subject to compulsory labeling

**Pictogram** none

### R Phrases

- no

### Safety Advice

- none

### Note

**Other Information** Safety data sheet available for professional user

## 2.3 Other hazards

**Other hazards** This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis. Used oil may contain harmful impurities. Not classified as flammable but will burn.

## 3 - COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance

**Substance composition** n.a.

### 3.2 Mixture

#### Mixture Composition

Classification REGULATION (EC) No 1272/2008

Chemical Name	CAS-No. EC-No.	Classification	Classification	Conc.
2,2',6,6'-tetra-terz-butyl-4,4'-metilendiphenol	118-82-1 204-279-1	Aquatic Chronic, 4;	H413;	< 3,00%
Interchangeable low viscosity base oil (<20,5 cSt @40°C) *	*	Asp. Tox., 1;	H304;	0,00 - 90,00%

\* contains one or more of the following CAS-numbers (REACH registration numbers): 64742-53-6 (01-2119480375-34), 64742-54-7 (01-2119484627-25), 64742-55-8 (01-2119487077-29), 64742-56-9 (01-2119480132-48), 64742-65-0 (01-2119471299-27), 68037-01-4 (01-2119486452-34), 72623-86-0 (01-2119474878-16), 72623-87-1 (01-2119474889-13), 8042-47-5 (01-2119487078-27), 848301-69-9 (01-0000020164-80).

Classification REGULATION (EC) No 67/548/CEE

Chemical Name	CAS-No. EC-No.	Classification	Classification	Conc.
2,2',6,6'-tetra-terz-butyl-4,4'-metilendiphenol	118-82-1 204-279-1		R53;	< 3,00%

		<b>SPECIFICA TECNICA VARIE</b> <i>Various technical specification</i>		
Codice/Code	ST105.31	Rev. 0	Data/Date	07/09/2015
Titolo/Title	<b>V-Life OEM OIL</b>			
Emessa da / Issued by	UT	Approvata da / Approved by		

**Chemical nature** The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346. Highly refined mineral oils and additives.

## 4 – FIRST AID MEASURED

**4.1 Description of first aid measure**

**Eye contact:**

- Wash eyes immediately with plenty of water for several minutes while holding eyelids open.

**Contact with skin:**

- Remove contaminated clothing and wash thoroughly with soap and water.  
 General note: any substance, in case of accidents involving pressurized pipes and similar may be accidentally injected under the skin, even without external damage. In this case it is necessary to conduct the injured to hospital as soon as possible for treatment. Do not wait for symptoms to develop.

**Inhalation:**

- In case of exposure to high concentrations of vapors and mists remove the subject from the contaminated transporting him in a well ventilated place.  
 - If breathing is difficult, give oxygen if possible, or use assisted ventilation (no mouth to mouth resuscitation). Seek medical attention if necessary.

**Ingestion:**

Do not induce vomiting to avoid the risk of aspiration into the respiratory tract. Immediately transported the casualty to the emergency department.

## 5 - FIREFIGHTING MEASURES

**5.1 Extinguishing Media**

**Suitable extinguishing media:** use extinguishing Class B: carbon dioxide (CO<sub>2</sub>), foam, sand, earth, water spray, dry chemical powder, unless otherwise stated.

**Unsuitable extinguishing media:** full water jets. Use water jets only to cool the surfaces of the containers exposed to fire, unless otherwise stated.

**NOTE:**

*Cool containers exposed but not involved to fire with water, to prevent the possible explosion and spread of fire.*

**5.2 Special hazards arising from the substance or mixture**

The equipment used under pressure can lead to the formation of aerosols that could, under appropriate conditions of ignition, catch fire. Avoid breathing fumes from burning because it can form compounds of unburned hydrocarbons such as carbon monoxide, unburned hydrocarbons and polycyclic aromatic derivatives with other derivatives potentially dangerous such as chlorine, sulfur and nitrogen.

**5.3 Advice for fire-fighters**

Equipment: wear equipment complete of helmet with visor and neck protection, self contained breathing apparatus at pressure or demand, insulative jacket and trousers, with bands around arms, legs and life.

## 6 - ACCIDENTAL RELEASE MEASURES

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

Keep non-involved personnel away from the area of spillage.  
 Ventilate area.  
 Avoid formation of aerosols and vapors from pressurized equipment.  
 Eliminate sources of ignition.  
 Avoid contact with skin, eyes by wearing appropriate protective clothing.  
 Ensure the availability of equipment for cooling the vessels, to prevent the danger of

Codice/Code	ST105.31	Rev. 0	Data/Date	07/09/2015
Titolo/Title	<b>V-Life OEM OIL</b>			
Emessa da / Issued by	UT	Approvata da / Approved by		

overheating in the event of a fire nearby.

The losses to the floor causing a risk of sliding.

**Respiratory protection:** in the possibility of exposure to oil mist in the relatively high concentration, use masks with filters specific for organic vapors and aerosols (EN 140 and 143).

**Eye protection:** Wear safety goggles (EN 166).

**Skin protection:** Use rubber or PVC gloves (EN 374). Wear work clothing (EN 465, 466, 467). It may be useful to use barrier cream.

**6.2 Environmental precautions**

Prevent product from entering sewers, rivers or other bodies of water. If required, notify relevant authorities according to all applicable regulations.

**6.3 Methods and material for containment and cleaning up**

Contain spills of small quantities of product with earth, sand or other inert absorbent material (vermiculite, sepiolite). Contain spill of large quantities of product. Transfer into suitable impermeable containers for storage and transport of collected material. Dispose according to local regulations.

**6.4 Reference to other sections**

See also sections 8 (protective equipment), 12 (ecology), and 13 (disposal).

## 7 - HANDLING AND STORAGE

**7.1 Precautions for safe handling**

Use of personal protective equipment must be consistent with good occupational hygiene practices. Avoid direct contact with the product. Avoid breathing vapors or aerosols. Ensure adequate ventilation of the working environment, especially if confined. Do not reuse contaminated clothing. Do not eat, drink or smoke when using this product. Do not use open flames, sparks or avoid contact with possible sources of ignition. Wash hands thoroughly with soap and water before meals and after work shift.

**7.2 Conditions for safe storage including any incompatibilities**

The product is stable under normal conditions of use and storage. Keep product in original container, stored in places and conditions which will ensure the control and containment of losses. Keep containers tightly closed. Store in a cool place, away from sources of heat or ignition, away from direct sunlight and do not constantly keep at temperatures above 50° C. Ensure adequate ventilation during storage and use. Avoid accumulation of electrostatic charges.

**7.3 Specific end use(s)**

For recommendations on the specific end-uses are not currently required supplementary information. Specific use: Before using the product for purposes other than those provided, refer to the relevant legislation and technical standards, take the appropriate measures of good operational practice.

## 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameter

**Occupational Exposure Limits**

Exposure limit values (components of the mixture):  
- TLV TWA: 5 mg/m<sup>3</sup> (mineral oil, pure, highly refined and otherwise)

**Biological occupational exposure limits**

No biological limit allocated.

**Monitoring Methods**

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate. Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory. Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

### 8.2 Exposure Controls

**8.2.1 Appropriate**

No special requirements under normal conditions of use. Refer to the standards of good operating practices, and environmental hygiene.

	<b>SPECIFICA TECNICA VARIE</b> <i>Various technical specification</i>			
	Codice/Code	ST105.31	Rev. 0	Data/Date
Titolo/Title	<b>V-Life OEM OIL</b>			
Emessa da / Issued by	UT	Approvata da / Approved by		

**engineering controls**

Avoid the generation of mists and aerosols and their spread through screening (if appropriate) of the machines, and through the use of ventilation / local exhaust. Organize activities with equipment suitable for the purpose. Use of adequately trained staff, informed and trained in operating procedures.

**8.2.2 Personal protection measures, such as personal protective equipment**

- a) Eye / Face Protection**      Wear protective goggles where it is possible to come in contact with the product (EN 166).
- b) Skin and body protection**      Skin protection is not ordinarily required beyond standard work clothe
- c) Respiratory Protection**      Not required under normal conditions of use.  
In the possibility of exposure to oil mist in the relatively high concentration, use masks with filters specific for organic vapors and aerosols (EN 140 and 143).
- d) Heat Dangers**      Heat is not dangerous under normal conditions of use.

**9 - PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

- a) Appearance**      *Liquid at room temperature.*
- b) Colour**      light brown
- c) Odour**      Typical
- d) pH**      not available
- e) pour point**      < -30 °C
- f) Flash point**      not available
- g) Vapour pressure**      > 230 °C    Method: ASTM D9
- h) Vapor density**      not applicable
- i) Relative density**      0,885 kg/L @ 15°C (ASTM 1298)
- l) The Solubility / solubility of the**      Insoluble in water.
- m) Viscosity, kinematic**      68 mm<sup>2</sup>/s (40.0 °C)    Method: ASTM D445

**10 - STABILITY AND REACTIVITY**

- 10.1 Reactivity**      The substance does not present additional dangers of reactivity than those reported in the next subtitle.
- 10.2 Chemical Stability**      Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions**      No dangerous reactions known.
- 10.4 Conditions to avoid**      No decomposition if used according to specifications.
- 10.5 Incompatible materials**      Avoid contact with strong oxidizing agents.
- 10.6 Hazardous Decomposition Products**      None under normal conditions of use. See also Section 5.

	<b>SPECIFICA TECNICA VARIE</b> <i>Various technical specification</i>			
	Codice/Code	ST105.31	Rev. 0	Data/Date
Titolo/Title	<b>V-Life OEM OIL</b>			
Emessa da / Issued by	UT	Approvata da / Approved by		

## 11 - TOXICOLOGICAL INFORMATION

<b>11.1 Chronic toxicity</b>	Exposure to oil vapour that exceeds Professional Inhalation Limits can cause respiratory system irritations.
<b>11.2 Skin contact</b>	LD50 skin (rabbit) > 2000 mg/kg (estimated). Frequent and continuous contacts could degrease skin and cause dermatitis.
<b>11.3 Eyes contact</b>	It can cause light irritation.
<b>11.4 Oral toxicity</b>	LD50 (rats): > 2000 mg/kg (estimated). The product if ingested can irritate the digestive apparatus and induce vomiting, cause nausea and diarrhea.
<b>11.5 Inhalation</b>	Long term exposure to the product mist can cause irritation to the respiratory system.

## 12 - ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s). (LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract.
<b>12.2 Biodegradability</b>	Remarks: Expected to be not readily biodegradable., Major constituents are expected to be inherently biodegradable, but contains components that may persist in the environment.
<b>12.3 Bioaccumulation</b>	Remarks: Contains components with the potential to bioaccumulate.
<b>12.4 Mobility in soil</b>	Remarks: Liquid under most environmental conditions., If it enters soil, it will adsorb to soil particles and will not be mobile.
<b>12.5 Results of PBT and vPvB assessment</b>	This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.
<b>12.6 Other adverse effects</b>	Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities., Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

## 13 - DISPOSAL CONSIDERATIONS

<b>13.1 Methods of waste treatment</b>	Prevent environmental discharge. Dispose of waste or used sacks/containers according to local regulations.
<b>CER</b>	130113

## 14 - TRANSPORT INFORMATION

*The substance itself is not considered dangerous within the meaning of the regulations governing the transport of dangerous goods by road (ADR), rail (RID), sea (IMDG Code) and by air (IATA)*

## 15 - REGULATORY INFORMATION

<b>Reference Laws</b>	This Safety Data Sheet complies with the Regulation n.453/2010.Regulation (CE) n.1907/2006 (REACH); Regulation (CE) n.1272/2008 (GHS/CLP); I ATP n.790/2009; II ATP n.86/2011; III ATP n.618/2012; IV ATP n.487/2013.Refer also to local laws.
-----------------------	--

## 16 - OTHER INFORMATION

<b>List of relevant R and H phrases</b>	R 53: May cause long-term adverse effects in the aquatic environment H304: May be fatal if swallowed and enters airways. H413: May cause long-lasting harmful effects to aquatic life
---	---

	<b>SPECIFICA TECNICA VARIE</b> <i>Various technical specification</i>			
Codice/Code	ST105.31	Rev. 0	Data/Date	07/09/2015
Titolo/Title	<b>V-Life OEM OIL</b>			
Emessa da / Issued by	UT	Approvata da / Approved by		

16.01 Disclaimer of liability: the information in this data sheet was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This data sheet was prepared and is to be used only for this product. If the product is used as a component in another product, this data sheet information may not be applicable.

Print date 07/09/2015

**\*\* n.a. = Not Applicable n.c. = Not Communicated**