

### 1 - Preparation and company identification

Identification of the preparationTracciante 11.004YF\_11.005YF\_11.060YF

Preparation use Fluorescent dye for air conditioning systems with gas 1234yf

Company ELKE S.R.L.

Via Grazia Deledda 72 10060 Candiolo (TO) Tel +39 0119622412

Emergency telephone +39 045 6101643 Urgently seek medical assistance. Transport to hospital or medical

centre with MSDS. If ingestion occurs contact Poisons Information Centre.

Business references mail: info@elke-ac.com

#### 2 - Hazards identification

Main risks to

No particular risks in normal working conditions. We recommend, however, to keep health/environment

normal personal hygiene and to avoid frequent and prolonged contact. Use according

normal personal hygiene and to avoid frequent and prolonged contact. Use according to good working practice avoiding to disperse the product in the environment.

Hazards The substance is not regarded as hazardous according to the Directive

1999/45/EEC.

### 3 - Composition / Information on ingredients

Ingredients composition

#### 67/548/CEE o 1999/45/CE

Reaction between Benzeneamine, N-phenyl with nonene (branched)	<0.39 %	01-2119488911-28

No. EU: 253-249-4 R53

No. 1272/2008/CE

Reaction between Benzeneamine, N-phenyl with nonene (branched) <0.39 % 01-2119488911-28

No. EU: 253-249-4 Aquatic Chronic 4; H413

Please refer to section 16 for more information about R phrases referred to.

Components information The content of DMSO extract, determined with the IP 346/92 method is lower than

3% in weight.

Chemical composition Synthetic base oil with additives.

### \* 4 - First aid measures

First aid measures required to treat the symptoms.

Inhalation If exposed to high concentration of vapours and fogs move the person from

contaminated area to well ventilated place. With labored breathing, provide oxygen. If respiratory arrest occurs make ventilation. If suspected inalathion, seek medical

assistance.

Contact with the skin Remove contaminated clothes and wash with soap and plenty of water. If irritation

persist, get medical attention.

Contact with the eyes Immediately flush eyes with plenty of water for a few minutes while keeping eyelids

open. Get medical attention.

Ingestion Do not induce vomit to avoid aspiration through the respiratory tract. Get medical

attention.



#### 5 - Fire-fighting measures

Fire-fighting equipment Extinguish flames with foam, dry chemicals, CO2.

Inappropriate extinguishers 
Do not use direct water jets. Use water jets just to cool down surfaces exposed to

fire.

Specific dangers in case of exposition to the chemicals, its combustion products or

Avoid breathing combustion fumes that, in case of fire, can form carbon monoxide fuel gases, carbon dioxide, sulphur, phosphorus, nitrogen and unburnt hydrocarbon

compounds and other derivates potentially dangerous.

Specific protective equipment Wear protective overalls with self-breathing equipment.

for fire-fighting personnel

#### 6 - Accidental release measures

Person - related safety

precautions

Wear gloves, protecting clothes and glasses. In case of indoors significant spill avoid to breathe vapours by ventilating the area or by wearing breath protecting equipment.

Remove possible ignition sources.

Environmental precautions Avoi

Avoid to disperse the product in ground, into sewers and into surface waters. If

necessary inform local authorities.

Decontamination procedures

In case of significant spillage, stem and transfer product to suitable containers. Spillage on ground: stem spilled product with soil or sand, clean up spilled product and dispose according to local regulations. Spillage in water: stem immediately the spillage. Mechanically remove spilled product from the surface.

#### 7 - Handling and storage

Handling Avoid direct contacts with the product. Do not breathe aerosol or product mist

guaranteeing a suitable ventilation in working areas. Do not smoke and avoid any

contact with ignition sources. Keep containers closed when not used.

Storage Keep the product in original containers. Storage in a fresh place, away from heating

sources and direct sun exposition. Avoid to accumulate electrostatic charge. Keep closed and covered the containers to avoid infiltrations of rain. Maintain suitable

ventilation of the work place.

Empty containers The containers contain product residues. Dispose the containers in safe ecological

way according to the local regulations.

## \* 8 - Exposure controls / personal protection

According to data in our possession, any component presents no exposure limits in working place.

Exposure control Avoid the formation of hazes or aerosol and use engineering controls, ventilation or

localized aspiration if necessary.

Breathing equipment Not necessary under normal working conditions. Keep oil hazes within the TLV-TWA

limit of 5 mg/m3. (A.C.G.I.H. 2000). Use masks with filters for organic vapours in

case of exposure superior to the fixed limits.

Hands and skin protection Wear gloves and protective overalls; change immediately contaminated clothes and

wash them thoroughly before use. We recommend to keep normal personal hygiene and of working clothes. Wear gloves only after having thoroughly washed your hands.

Eyes protection Wear safety protective glasses where it is possible to be in contact with the product.





#### 9 - Physical and chemical properties

Physical status-: Liquid
Colour-: Yellow
Odour-: Typical

pH: 5,5 - 7,5 (16,7% isopropanol/water 10/6)

Water Solubility-: Partially soluble

Density at 15°Ckg/l: 0,990
Kinematic Viscosity at 40°CcSt: 48,2
Flash Point (C.O.C.)°C: 205
Pour Point°C: -39

Boiling pointhPa: Decompose before boiling point

#### 10 - Stability and reactivity

Conditions to avoid High temperature (>150°C) can cause decomposition with development of odorous

and toxic smoke.

Reactivity and materials to

avoid

Avoid contacts with strong acid, strong bases and oxidation agents. Avoid extreme

heat and high energy sources of ignition.

Stability Stable product in normal applications.

## \*11 - Toxicological information

Chronic toxicity Exposure to oil vapour that exceeds Professional Inhalation Limits can cause

respiratory system irritations.

Skin contact LD50 skin (rabbit) > 2000 mg/kg (estimated). Frequent and continuous contacts

could degrease skin and cause dermatitis.

Eyes contact It can cause light irritation.

Oral toxicity LD50 (rats): > 2000 mg/kg (estimated). The product if ingested can irritate the

digestive apparatus and induce vomiting, cause nausea and diarrhea.

Inhalation Long term exposure to the product mist can cause irritation to the respiratory system.

#### 12 - Ecological information

Mobility Logarithm of the coefficient of distribution ottanolo/water is considered to be < 3.

Degradability More than 90% of components are classified ad biodegradable (BOD28 > 60%).

Ecotoxicity In compliance with EEC Regulations the product is not regarded as hazardous to the

environment.

Accumulation Not determined.

#### \* 13 - Disposal considerations

General information Do not dispel the environment. Comply with the current laws.

Disposal Avoid to disperse the product on ground, into sewers and surface waters. Discharge

the exhausted products and the containers through the authorized industries in compliance with the state and local regulations for disposal of this type of waste.

## 14 - Transport information

### Not hazardous for the transport.

Transport name OIL PAG ISO 100

### \* 15 - Regulatory information

Reference Laws This Safety Data Sheet complies with the Regulation 453/2010/EEC.

Regulation (CE) 1272/2008 (GHS/CLP), D.E. 1999/45/CE, 2001/60/CE and related regulations on "Classification, labelling and packaging of substances and mixtures".

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Refer also to local laws.

#### \*16 - Other information

Relevant R and H phrases

R 53 May cause long-term adverse effects in the aquatic environment.

May cause long lasting harmful effects to aquatic life. H413

Warning

The information presented in this Material Safety Sheet is based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. The purpose of this data sheet is to inform and assume a correct technological use of the product. Elke S.r.l. does not take any responsibility resulting from any

damage or injury resulting from abnormal use.