

**TIGACOL ADHESIVES**

## SAFETY DATA SHEET

### TIGACOL A-50

#### 1. Identification of the Substance/Mixture and of the Company/Undertaking

##### 1.1. Product identifier

Product Name TIGACOL A-50

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

Intended use Adhesive

##### 1.3. Details of the Supplier of the Safety Data Sheet

Supplier EFSTATHIOS TIGKAS & CO EE  
PEFKON (PAR. AG. POLYKARPOU 49)  
ATHENS – GR 118 55  
Tel: +30- 210-3457330, 3458549 Fax: +30- 210-3474901  
email etiga@tee.gr

##### 1.4. Emergency telephone number

+30-210-3458549

#### 2. Hazards Identification

##### 2.1. Classification of the substance or mixture

Classification (1999/45/EC) F; R11, Xn; R65, R48/20, Xi; R38, Carc. Cat. 2, R45, Muta cat 3 R68, Repr. cat. 3; R62/63, N; R51/53, R67

Classification (EC1272/2008) Natural and chemical hazards: Flamm. Liquid 2 - H225  
For human: EUH066: Eye irritation 2 - H319; STOT SE. 3 - H336,  
May cause drows. or dizziness. 1-H304, STOT long term. 2-H373, carc. 1B-H350,  
Tox. In reprod.. 2-H361fd, Skin Irr.. 2-H315, muta. 2-H341.  
For environment: Aquat. Long last. toxic. 2 - H411

##### 2.2. Label Elements

Labelling according to Regulation (EC) No 1272/2008



Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapour.  
H361 Suspected of damaging fertility or the unborn child.  
H319 Causes serious eye irritation.

H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H304	May be fatal if swallowed and enters airways.
H341	Suspected of causing genetic defects.
H350	May cause cancer.

## Precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P308 + P313	IF exposed or concerned: Get medical advice/attention
P370 + P378	In case of fire: Use dry powder or carbon dioxide fire extinguishers.

## Other hazards

EUH066 Repeated exposure may cause skin dryness or cracking

### 3. Composition/information on ingredients

ACETONE		5 – 10 %
CAS No. : 67-64-1	EC No. : 200-662-2	REACH Registration No.: 01-2119471330-49
Registration (EC 1272/2008)		Registration (EC 67/548)
Flammable Liqu. 2 – H225		F; R11
EUH066		Xi; R36
Eye Irrit. 2 – H319		R66
STOT SE 3 – H336		R67

HEXANE		10 – 30 %
CAS No. : 110-54-3	EC No. : 203-777-6	REACH Registration No.: 01-2119480412-44
Registration (EC 1272/2008)		Registration (EC 67/548)
Flammable Liqu. 2 – H225		F; R11
Skin Irrit. 2 – H315		Repr. Cat. 3; R62
Repr.. 2 – H361f		Xn; R65, R48/20
STOT SE 3 – H336		Xi; R38
STOT SE 2 – H373		R67
Tox. In inh. 1 – H304		N; R51/53
Tox. For Aquat. Env.. – H411		

TOLUENE		20 – 40 %
CAS No. : 108-88-3	EC No. : 203-625-9	REACH Registration No.: 01-2119471310-51
Registration (EC 1272/2008)		Registration (EC 67/548)
Flammable Liqu. 2 – H225		F; R11
Skin Irrit. 2 – H315		Repr. Cat. 3; R63
Repr.. 2 – H361d		Xn; R65, R48/20
STOT SE 3 – H336		Xi; R38
STOT SE 2 – H373		R67

TRICHLOROETHYLENE		10 – 30 %
CAS No. : 79-01-6	Αριθμός EC : 201-167-4	REACH Registration No.: 01-2119490731-36
Registration (EC 1272/2008)		Registration (EC 67/548)
Flammable Liqu. 2 – H315		R67
Eye Irrit. 2 – H319		Xi; R36/38
Allerg. Skin React.. – H317		Carc. Cat. 2; R45
Susp. Genet. Defects – H341		Muta. Cat. 3; R68
STOT SE 3 – H336		R52/53
May Cause Cancer –H350		
Harm. aqu.life withl ong last. Eff. – H412		

#### 4. First aid measures

##### 4.1 Description of first aid measures

Inhalation

Supply fresh air.

Swallowing

Do not induce vomiting; call for medical help immediately.

Skin contact

Clean with water and soap.

Eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

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

No further relevant information available

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

No further relevant information available.

#### 5. Firefighting measures

##### 5.1 Extinguishing media

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents Water with full jet

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

Formation of toxic gases is possible during heating or in case of fire.

##### 5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

#### 6. Accidental release measures

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

Ensure adequate ventilation

Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.

##### 6.2 Environmental precautions

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

##### 6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

## 7. Handling and storage

### 7.1. Precautions for safe handling

- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- Information about protection against explosions and fires:
- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage

- Requirements to be met by storerooms and containers: Store in a cool location.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

### 7.3. Specific end use(s) No further relevant information available.

## 8. Exposure controls/personal protection

### 8.1. Control parameters

Components		Long Term Value (8 hours)		Short Term Value (15 minutes)	
Acetone	WEL	500 ppm	1210 mg/m <sup>3</sup>	1500 ppm	3620 mg/m <sup>3</sup>
Hexane	WEL	20 ppm	72 mg/m <sup>3</sup>	-	-
Toluene	WEL	50 ppm	191 mg/m <sup>3</sup>	100 ppm	384 mg/m <sup>3</sup>
Trichloroethylene	WEL	100 ppm	550 mg/m <sup>3</sup>	150 ppm	820 mg/m <sup>3</sup>

### 8.2. Exposure controls

#### Personal protective equipment



General protective and hygienic measures Wash hands before breaks and at the end of work.  
Breathing equipment: Not necessary if room is well-ventilated.

#### Protection of hands:

For direct contact with liquid adhesive (for example cleaning works): protective gloves. Otherwise, no hand protection necessary.

Preventive skin protection by use of skin-protecting agents is recommended.

#### Material of gloves

Butyl rubber, BR  
Fluorocarbon rubber (Viton)

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Goggles recommended during refilling

## 9. Physical and chemical properties

<b>Appearance</b> Medium Viscosity Liquid	<b>Colour</b> Yellowish	<b>Smell</b> Characteristic
<b>Viscosity</b> (Brookf. LV - Spindle 2, 6rpm, 25°C) 1200 – 1350 mPa.s (25°C)	<b>Density</b> 0.90 ± 0.01 g/cm <sup>3</sup> (25°C)	<b>Solids</b> 18 ± 1 %
<b>Boiling Point</b> 69°C (hexane)	<b>Flash Point</b> -22°C (hexane)	<b>Critical Val. Of explosion</b> 1,2 – 6,9 % vol
<b>Vapour Density</b> 3.00 (air = 1)	<b>Storage</b> 9-10 months	<b>Solubility in Water</b> Insoluble

## 10. Stability and reactivity

### 10.1 Reactivity

### 10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

### 10.4 Conditions to avoid

No further relevant information available.

### 10.5 Incompatible materials:

No further relevant information available.

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

#### Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

#### Eye Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

#### Ingestion:

May be harmful if swallowed.

Gastroin testinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea

## 12. Ecological information

### 12.1 Toxicity

No further relevant information available.

### 12.2 Persistence and degradability

No further relevant information available.

### 12.3 Bioaccumulative potential

No further relevant information available.

### 12.4 Mobility in soil

No further relevant information available.

### 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

### 12.6 Other adverse effects

No further relevant information available.

### 13. Disposal considerations

#### 13.1 Waste treatment methods

Must be specially treated adhering to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system

### 14. Transport information

#### 14.1 UN Number

UN No. (ADR/RID/ADN)	1133
UN No. (IMDG)	1133
UN No. (ICAO)	1133

#### 14.2 UN proper shipping name

Adhesives

#### 14.3 Transport hazard class(es)

ADR/RID/ADN Class	3 : Flammable Liquids
ADR Label	3
MDG Class	3
ICAO Class	3

Label



#### 14.4 Packing group

ADR/RID/ADN	III
IMDG	III
ICAO	III

#### 14.5 Environmental hazards:



#### 14.6 Special precautions for user

EMS	F-E, S-D
C. Chemical Hazard	+3YE
(ADR)	33

#### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable

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**15. Regulatory information**

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EU regulations:

Authorisations and/or restrictions on use: None

Other EU legislation:

Commission Regulation (EU) No 474/2014 of 8 May 2014 amending Annex XVII to Regulation (EC) No 1907/2006

Commission Regulation (EU) No 944/2013 of 2 October 2013 (5<sup>th</sup> ATP) amending Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  
Waste Framework Directive 2008/98/EC.

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**16. Other Information**

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Hazard statements

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| H361 | Suspected of damaging fertility or the unborn child. |
| H319 | Causes serious eye irritation.                       |
| H336 | May cause drowsiness or dizziness.                   |
| H411 | Toxic to aquatic life with long lasting effects.     |
| H304 | May be fatal if swallowed and enters airways.        |
| H341 | Suspected of causing genetic defects.                |
| H350 | May cause cancer.                                    |

Precautionary statements

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|------|--|
| P210 | Keep away from heat/sparks/open flames/hot surfaces – No smoking.          |
| P273 | Avoid release to the environment.  |
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P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
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P308 + P313	IF exposed or concerned: Get medical advice/attention
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Other hazards

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