

Safety Data Sheet  
according to 1907/2006/EC, Article 31

## EFFISUS BONDING KT ADHESIVE

### 1. PRODUCT AND COMPANY INFORMATION \*

**Product Trade Name**  
Effisus Bonding KT Adhesive

**Product Use**  
Adhesives

**Company / Distributor**  
Up-Way Systems, Lda.  
R. Dr. Oliveira Salazar, 88  
4780-453 Santo Tirso  
T: +351 252 809 121  
F: +351 252 859 298

**Emergency Phone Number**  
112

### 2. HAZARD IDENTIFICATION \*

#### Hazard Description



Xi Irritant  
F Highly flammable  
N Dangerous for the environment

#### Information concerning particular hazards for human and environment

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Has a narcotizing effect.

R 11 Highly flammable.

R 38 Irritating to skin.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 67 Vapours may cause drowsiness and dizziness.

#### Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

#### GHS label elements



Danger

H225 – Highly flammable liquid and vapour.



Warning

H315 - Causes skin irritation.

H319 – Causes severe eye irritation.

H336 - May cause drowsiness or dizziness.

**2. HAZARD IDENTIFICATION (cont.) \***


H411 – Toxic to aquatic life with long lasting effects.

Contains zinc bis(dibutylthiocarbamate). May produce an allergic reaction.

**Prevention**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

**Response**

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 In case of eye contact: Carefully, rinse with water for several minutes. Remove contact lenses, if present and it's easy to do so. Keep rinsing with water.

**Storage**

P405 Store locked up.

**Disposal**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**3. COMPOSITION/ INFORMATION ON INGREDIENTS \***
**Chemical Characterisation**



Mixture of substances listed below with nonhazardous additions.



**Dangerous Components**
**Kookpuntbenzine 60-95 (25-50%)**

CAS: 64742-49-0

EINECS: 265-151-9

 *Xn*,  *Xi*,  *F*,  *N*; *R 11-38-50/53-65-67*

Danger:  2.6/2;  3.10/1



Warning:  3.2/2, 3.8/3;  4.1.C/2




**Cyclohexane (10-25%)**

CAS: 110-82-7

EINECS: 203-06-2

 *Xn*,  *Xi*,  *F*,  *N*; *R 11-38-50/53-65-67*



Danger:  2.6/2;  3.10/1

Warning:  4.1.A/1,  4.1.C/1;  3.2/2, 3.8/3

**Ethyl acetate (10-25%)**

CAS: 141-78-6

EINECS: 205-500-4

 *Xi*,  *F*, *R 11-36-66-67*

Danger:  2.6/2;

Warning:  3.2/2, 3.8/3



### 3. COMPOSITION/ INFORMATION ON INGREDIENTS (cont.) \*

#### Dangerous Components (cont.)

**Zinc bis - dibutylfithiocarbamate (≤2.5%)**

CAS: 136-23-2

EINECS: 205-232-8

 Xi,  N; R 36/37/38-43-50/53

Warning:  4.1.A/1, 4.1.C/1;  3.2/2, 3.3/2, 3.4.S/1, 3.8/3

#### Additional information

For the wording of the listed risk phrases refer to section 16.

### 4. FIRST AID MEASURES \*

#### After inhalation

In case of unconsciousness place patient stably in side position for transportation.

#### After skin contact

Immediately wash with water and soap and rinse thoroughly.

#### After eye contact

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

**After swallowing** If symptoms persist consult doctor.

### 5. FIRE FIGHTING MEASURES \*

#### Suitable extinguishing agents

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.

#### Protective equipment

No special measures required.

### 6. ACCIDENTAL RELEASE MEASURES \*

#### Person-related safety precautions

Wear protective equipment. Keep unprotected persons away.

#### Measures for environmental protection

Prevent seepage into sewage system, workpits and cellars.

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

Do not allow to enter sewers/ surface or ground water.

#### Measures for cleaning/collecting

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

Ensure adequate ventilation.

## 7. HANDLING AND STORAGE\*

### Handling

#### Information for safe handling

Ensure good ventilation/exhaustion at the workplace.

#### Information about fire - and explosion protection

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

### Storage

#### Requirements to be met by storerooms and receptacles

Store in a cool location.

#### Information about storage in one common storage facility

Not required.

#### Further information about storage conditions

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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## 8. EXPOSURE CONTROL AND PERSONAL PROTECTION \*

### Additional information about design of technical facilities

No further data; see item 7.

### Ingredients with limit values that require monitoring at the workplace

#### 110-82-7 cyclohexane (10-25%)

WEL

Short-term value: 1300 mg/m<sup>3</sup>, 375 ppm

Long-term value: 700 mg/m<sup>3</sup>, 200 ppm

#### 141-78-6 ethyl acetate (10-25%)

WEL: 1400 mg/m<sup>3</sup>, 400 ppm

#### 471-34-1 carbonate de calcium (2,5-10%)

WEL: 10 mg/m<sup>3</sup>

### Additional information

The lists valid during the making were used as basis.

### Personal protective equipment

#### General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

#### Respiratory protection

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Use suitable respiratory protective device in case of insufficient ventilation.

## 8. EXPOSURE CONTROL AND PERSONAL PROTECTION (cont.) \*

### Protection of hands



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

### 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



Tightly sealed goggles.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

**Form:** Fluid.

**Colour:** Black.

**Odour:** Characteristic.

### Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 60°C.

**Flash point:** -18°C.

**Ignition temperature:** 260°C.

**Self-igniting:** Product is not selfigniting.

**Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

### Explosion limits

Lower: 1.2 Vol %.

Upper: 11.5 Vol %.

**Vapour pressure at 20°C:** 175 hPa.

**Density at 20°C:** 0.865 g/cm<sup>3</sup>.

**Solubility in / Miscibility with water:** Not miscible or difficult to mix.

**Viscosity: Dynamic at 20°C:** 2500 mPas.

**Solvent content: Organic solvents:** 56.7 %.

**Solids content:** 43.3 %.

## 10. STABILITY AND REACTIVITY

### Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications.

### Substances à éviter

### Dangerous reactions

No dangerous reactions known.

### Dangerous decomposition products

No dangerous decomposition products known.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

### LD/LC50 values relevant for classification

110-82-7 cyclohexane

Oral

LD50

12705 mg/kg (rat)

### Primary irritant effect

On the skin: Irritant to skin and mucous membranes..

On the eye: No irritating effect.

Sensization: No sensitization effects known.

### Additional toxicological information

The product shows the following dangers according to the calculation method of the General EU Classification.

Guidelines for Preparations as issued in the latest version: Irritant.

## 12. ECOLOGICAL INFORMATION \*

### Ecotoxicological effects

Toxic to fish.

### General notes

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

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

Harmful to aquatic organisms.

Ranger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms.

## 13. DISPOSAL CONSIDERATIONS

### Product

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

### European waste catalogue

08 04 09\* - waste adhesives and sealants containing organic solvents or other dangerous substances.

### Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

## 14. TRANSPORT INFORMATION \*

### Land transport ADR/RID (cross-border)



**ADR/RID class:** 3 (F1) Flammable liquids.

**Danger code (Kemler):** 33.

**UN-Number:** 1133.

**Packaging group:** III.

**Hazard label:** 3.

**Special marking:** Symbol (fish and tree).

**Description of goods:** 1133 ADHESIVES, special provision 640G.

**Code de restriction en tunnels:** D/E.

### Maritime transport IMDG



**IMDG Class:** 3.

**UN Number:** 1133.

**Label:** 3.

**Packaging group:** III.

**EMS Number:** F-E,S-D.

**Marine pollutant:** Yes.

**Special marking:** Symbol (fish and tree).

**Proper shipping name:** ADHESIVES.

### Air transport ICAO-TI and IATA-DGR



**ICAO/IATA Class:** 3.

**UN/ID Number:** 1133.

**Label:** 3.

**Packaging group:** III.

**Proper shipping name:** ADHESIVES.

**UN "Model Regulation":** UN1133, ADHESIVES, 3, III.

**Environmental hazards:** Product contains environmentally hazardous substances: cyclohexane, Kookpuntbenzine 60-95.

## 15. REGULATORY INFORMATION \*

### Labelling according to EU guidelines

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

### Code letter and hazard designation of product



Xi Irritant  
F Highly flammable  
N Dangerous for the environment

### Risk phrases

11 Highly flammable.  
38 Irritating to skin.  
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
67 Vapours may cause drowsiness and dizziness.

### Safety phrases

3 Keep in a cool place.  
9 Keep container in a well-ventilated place.  
16 Keep away from sources of ignition - No smoking.  
21 When using do not smoke.  
23 Do not breathe fumes.  
57 Use appropriate container to avoid environmental contamination.

### Special labelling of certain preparations

Contains zinc bis(dibutylthiocarbamate). May produce an allergic reaction.

### National regulations

### Technical instructions (air)

- Class: NK.  
- Share in %: 56.7.

### Waterhazard class

Water hazard class 2 (Self-assessment): hazardous for water.

## 16. OTHER INFORMATION \*

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Relevant R-phrases

11 Highly flammable.  
36 Irritating to eyes.  
36/37/38 Irritating to eyes, respiratory system and skin.  
38 Irritating to skin.  
43 May cause sensitisation by skin contact.  
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
65 Harmful: may cause lung damage if swallowed.  
66 Repeated exposure may cause skin dryness or cracking.  
67 Vapours may cause drowsiness and dizziness.



## 16. OTHER INFORMATION (cont.)\*

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labelling of Chemicals.

LC50: Lethal concentration, 50 percent.

LD50: Lethal dose, 50 percent.

\* **Data compared to the previous version altered.**

### Accompanying Document

Version 3-Revision/Printing Date: 15/07/2010

### Version

V 1.1 – OG – 21/02/2013