

Safety Data Sheet  
according to 1907/2006/EC

## EFFISUS BONDING KF+ ADHESIVE

### 1. PRODUCT AND COMPANY INFORMATION

**Product Trade Name**  
Effisus Bonding KF+ Adhesive

**Product Use**  
Sealant/ Adhesive

**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

**Classification of the substance or mixture**

**Type of product**  
Mixture.

**Classification (67/548/EEC,1999/45/EC)**

**Sensitising**  
R42: May cause sensitization by inhalation.

**Label elements**  
Labelling according to EC Directives (1999/45/EC)

**Hazard pictograms**



Harmful

**R-phrases**  
R42: May cause sensitization by inhalation.

**S-phrases**  
S23: Do not breathe vapour.  
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Hazardous components which must be listed on the label**  
202-966-0  
4,4'-methylenediphenyl diisocyanate.

## 2. HAZARD IDENTIFICATION (cont.)

### Special labeling of certain mixtures

Contains isocyanates. See information supplied by the manufacturer.

### Other hazards

This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

This mixture contains no substance considered to be persistent, bioaccumulation nor toxic (PBT).

## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

### Substances

Not applicable.

### Mixtures

### Hazardous components

Chemical Name CAS – No. EC – No. Registration number	Classification (67/548/EEC)	Classification (Regulation (EC) No 1272/2008)	Concentration [%]
4,4'-methylenediphenyl diisocyanate 101-68-8 202-966-0 01-2119457014-47-xxx	Carc. Cat.3; R40 Xn; R20- R48/20 Xi; R36/37/38 R42/43	Acute Tox. 4; H332 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit.2; H315 Resp. Sens. 1;H334 Skin Sens. 1; H317 Carc.2; H351 STOT RE 2; H373	≥ 0,1 - <1

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16

## 4. FIRST AID MEASURES

### Description of first aid measures

**General advice:** Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled:** If symptoms persist, call a physician.

**In case of skin contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.

**In case of eye contact:** Flush eyes with water as a precaution. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

**If swallowed:** Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention.

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

**Symptoms:** Asthmatic appearance, Allergic reactions, See section 11 for more detailed information on health effects and symptoms.

**Risks:** sensitizing effects.

## 4. FIRST AID MEASURES (cont.)

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

**Treatment:** Treat symptomatically.

---

## 5. FIRE FIGHTING MEASURES

### Extinguishing media

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Special hazards arising from the substance or mixture

**Specific hazards during firefighting:** Do not allow run-off from fire fighting to enter drains or watercourses.

### Advice for firefighters

**Special protective equipment for firefighters:** In the event of fire, wear self-contained breathing apparatus.

**Further information:** Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Use personal protective equipment. Ensure adequate ventilation.

### Environmental precautions

**Environmental precautions:** Try to prevent the material from entering drains or water courses.

### Methods and materials for containment and cleaning up

**Methods for cleaning up:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

### Reference to other sections

For personal protection see section 8.

---

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling:** Avoid exceeding of the given occupational exposure limits (see section 8). For personal protection see section 8. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms.

**Advice on protection against fire and explosion:** Normal measures for preventive fire protection.

### Conditions for safe storage, including any incompatibilities

**Requirements for storage areas and containers:** Keep container tightly closed in a dry and well-ventilated place.

## 7. HANDLING AND STORAGE (cont.)

**Other data:** No decomposition if stored and applied as directed.

**Specific end use(s)**

**Specific use(s):** no data available.

## 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

**Control parameters**

Components with workplace control parameters

Components	CAS – No.	Value	Control Parameters*	Basis*
4,4'-methylendiphenyl diisocyanate	101-68-8	AGW AGW AGW	0,05mg/m <sup>3</sup> 0,05mg/m <sup>3</sup> 0,05mg/m <sup>3</sup>	DE TRGS900 DE TRGS900 TRGS430

\*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

**Exposure controls**

**Personal Equipment**

**Respiratory protection:** Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Organic vapor filter (Type A)

A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm

Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 – Methods for determining inhalation exposure). This applies in particular to the mixing / stirring area. In case this is not sufficient to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.

**Hand protection:** Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.

Reference number: EN 374.

Suitable for short time use or protection against splashes:

Butyl rubber/nitrile rubber gloves (0,4 mm);

Contaminated gloves should be removed.

Suitable for permanent exposure:

Viton gloves (0.4 mm);

breakthrough time >30 min.

**Eye Protection:** Tightly fitting safety goggles. Eye wash bottle with pure water.

**Skin and body protection:** impervious clothing, choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

**Environmental exposure controls**

**General advice:** Try to prevent the material from entering drains or water courses.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Appearance:** Paste.

**Colour:** Black.

**Odour:** Characteristic.

**Odour Threshold:** No data available.

**Flash point:** >101°C.

**Ignition temperature:** No data available.

**Lower explosion limit (Vol%):** No data available.

**Upper explosion limit (Vol%):** No data available.

**Flammability (solid, gras):** No data available.

**Oxidizing properties:** No data available.

**Auto-ignition temperature:** No data available.

**pH:** No data available.

**Melting point/ range/ freezing point:** No data available.

**Boiling point/ boiling range:** No data available.

**Vapour pressure:** No data available.

**Density:** Ca. 1,26 g/cm<sup>3</sup> at 20°C.

**Water solubility:** Note: insoluble.

**Partition coefficient: n-octanol/ water:** No data available.

**Viscosity,dynamic:** Ca 80.000 m Pa.s at 20°C.

**Viscosity, kinematic:** > 20,5 mm<sup>2</sup>/s at 40°C.

**Relative vapour density:** No data available.

**Evaporation rate:** No data available.

### Other information

No data available.

---

## 10. STABILITY AND REACTIVITY

### Reactivity

No dangerous reaction known under conditions of normal use.

### Chemical stability

The product is chemically stable.

### Possibility of hazardous reactions

**Hazardous reactions:** Note: No decomposition if used as directed.

## 10. STABILITY AND REACTIVITY (cont.)

### Conditions to avoid

**Conditions to avoid:** no data available.

### Incompatible materials

**Materials to avoid:** no data available.

### Hazardous decomposition products

**Thermal decomposition:** Note: no data available.

---

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Product

**Acute oral toxicity:** no data available

**Acute inhalation toxicity:** no data available .

**Acute dermal toxicity:** no data available.

**Skin corrosion / irritation:** no data available.

**Serious eye damage / eye irritation:** no data available.

**Respiratory or skin sensitization:** may cause sensitization by inhalation.

**Mutagenicity:** no data available.

**Carcinogenicity:** no data available.

**Reproductive toxicity:** no data available.

**Teratogenicity:** no data available.

---

## 12. ECOLOGICAL INFORMATION

### Toxicity

No data available.

### Persistence and degradability

No data available.

### Bioaccumulative potential

No data available.

### Mobility in soil

No data available.

### Other adverse effects

No data available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Disposal considerations:** In accordance with the EWC Waste Regulation the classification of waste is to be assigned to the jurisdiction of the origin of waste. Therefore it is not possible to assign a particular waste identification number. Completely emptied packagings may be given for recycling. Empty packaging may still contain hazardous residues. Empty packaging should be removed by a licensed waste contractor.

---

## 14. TRANSPORT INFORMATION

### ADR

Not dangerous goods.

### IMDG

Not dangerous goods.

### IATA

Not dangerous goods.

### Special precautions for user

No data available.

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

---

## 15. REGULATORY INFORMATION

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

**Candidate list of Substances of very high concern for authorization:** This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

**REACH information:** All substances are:

- preregistered or registered by our suppliers, and/or;
- excluded from the regulation, and/or;
- exempted from the registration.

**Water contaminating class (Germany):** WGK 1 slightly water endangering gemäß VwVws from 30th of Juli 2005.

**VOC-CH (VOCV):** 1,08% no VOC duties.

**VOC-EU (solvent):** 1,08%.

**GISCODE:** PU 50.

### Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

## 16. OTHER INFORMATION

### Full text of R-phrases referred to under sections 2 and 3

R20 Harmful by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.

R40 Limited evidence of a carcinogenic effect.

R42 May cause sensitization by inhalation.

R42/43 May cause sensitization by inhalation and skin contact.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

### Full text of H-Statements referred to under sections 2 and 3.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

### Key or legend to abbreviations and acronyms used in the safety data sheet

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure.

STOT-SE = Specific Target Organ Toxicity - Single Exposure.

DNEL = Derived No Effect Level.

ATE = Acute Toxicity Estimate.

ATE = Acute Toxicity Estimate.

CLP = Classification, Labelling and Packaging Regulation [Reg. (EC) No. 1272/2008].

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use.

Changes as compared to previous version!