

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Trade name: **AKRINOL FLEX**

· Article number: ALF ver. 3

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

· Cement product for ceramics AKRINOL FLEX, ALF.

· Product category

AKRINOL FLEX is a multipurpose flexible construction adhesive based on cement and intended for interior and exterior use.

· Application of the substance / the mixture

AKRINOL FLEX is a flexible construction adhesive; it is suitable for:

- Fixing ceramic tiles, clinker brick and glass- and other mosaics onto wall and floor surfaces;
- Fixing floor ceramics in buildings with floor heating;
- Fixing ceramics in pools and
- Fixing ceramics onto old ceramic linings.

The product is a chemical compound characterised by low content of hazardous substances. It has been verified that, apart from cement, the product does not contain any other hazardous and volatile organic substances and heavy metals. Certified low emission of substances into a place during use is also characteristic of the product.

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

JUB d.o.o.

Dol pri Ljubljani 28

1262 DOL PRI LJUBLJANI

SLOVENIA

T: + 386 1 5884 183

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· Further information obtainable from:

Product safety department:

TRC JUB d.o.o.

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· 1.4 Emergency telephone number:

During normal opening times (8 - 16h CET) Group JUB: +386 1 5884 185

United Kindom: NPIS 0870 600 6266

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

In accordance with Regulations on the classification of chemicals (Rules on classification and mainly directives EU 1967/548/EEC and 1999/45/EC, neither bound by the Regulation CLP 2008/1272/EC), the product is classified as a hazardous compound since it contains cement.

· Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Skin Corr. 1C H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

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GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xi; Irritant

R37/38-41: Irritating to respiratory system and skin. Risk of serious damage to eyes.

Xi; Sensitising

R43: May cause sensitisation by skin contact.

· **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.

· **Classification system:**

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

· **2.2 Label elements**

· **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

· **Hazard-determining components of labelling:**

Cement, portland, chemicals

· **Risk phrases:**

37/38 Irritating to respiratory system and skin.

41 Risk of serious damage to eyes.

43 May cause sensitisation by skin contact.

· **Safety phrases:**

2 Keep out of the reach of children.

24/25 Avoid contact with skin and eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

28 After contact with skin, wash immediately with plenty of water.

37/39 Wear suitable gloves and eye/face protection.

46 If swallowed, seek medical advice immediately and show this container or label.

· **Special labelling of certain preparations:**

Safety data sheet available for professional user on request.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

3.2 Chemical characterization: Mixtures

Main ingredients of AKRINOL FLEX are: cement, polymeric binder, silicate fillers, cellulose thickening agent and supplements.

· **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 65997-15-1 EINECS: 266-043-4	Cement, portland, chemicals ☒ Xi R37/38-41; ☒ Xi R43 ☒ Eye Dam. 1, H318; ☒ Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	35.0 - 45.0%
CAS: 544-17-2 EINECS: 208-863-7	calcium diformate ☒ Xi R36 ☒ Eye Irrit. 2, H319	< 1.0%

· Additional information:

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

SECTION 4: First aid measures

4.1 Description of first aid measures

· After inhalation:

Supply fresh air and to be sure call for a doctor.

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.

· **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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

· Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

5.3 Advice for firefighters

· **Protective equipment:** CO₂, sand, extinguishing powder. Do not use water.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective clothing.

· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.

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- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:**
Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class:** Storage class: 13 - Incombustible solid products
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

65997-15-1 Cement, portland, chemicals

WEL	Long-term value: 10* 4** mg/m ³ *inhalable dust **respirable dust
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- **Additional information:** The lists valid during the making were used as basis.

· 8.2 Exposure controls

· **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.

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.

· **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

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· Risk management measures

It is recommended to use high-quality work clothing and protective equipment. Use only outfits that meet the following standards:

- Protective gloves that meet the criteria of EN 388 (Category II).
- Protective goggles must comply with standard EN 166
- Protective mask respirator for small dust particles must conform to standard EN 149

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties**· General Information****· Appearance:**

Form:	Powder
Colour:	Grey
· Odour:	Odourless
· Odour threshold:	Not determined.

· pH-value at 20 °C:	12
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· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

· Flash point:	Not applicable.
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· Flammability (solid, gaseous):	Not determined.
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· Ignition temperature:

Decomposition temperature:	Not determined.
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· Self-igniting:	Product is not selfigniting.
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· Danger of explosion:	Product does not present an explosion hazard.
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· Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

· Vapour pressure:	Not applicable.
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· Density at 20 °C:	1.54 g/cm ³
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.

· Solubility in / Miscibility with water:	Soluble.
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· Partition coefficient (n-octanol/water):	Not determined.
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· Viscosity:

Dynamic:	Not applicable.
Kinematic:	Not applicable.

· Solvent content:

Organic solvents:	0.0 %
VOC (EC)	0.00 %
	VOC content: not specified
	(the product is not subject to the Directive 2004/42/CE).

Solids content:	100.0 %
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- **9.2 Other information** No further relevant information available.

SECTION 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.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values relevant for classification:**
 - oral. > 5000 mg/kg (Rat)
 - dermal. > 5000 mg/kg (Rat)
 - inhal. > 5 mg/kg, 4h (Rat)
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible through skin contact.
- **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:

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic 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.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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· European waste catalogue	
17 09 04	<i>mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03</i>
15 01 01	<i>paper and cardboard packaging</i>

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· 14.1 UN-Number	<i>AKRINOL FLEX is not classified as a substance or compound which would be dangerous for transport in accordance with provisions of ADR.</i>
· ADR, ADN, IMDG, IATA	<i>Void</i>
· 14.2 UN proper shipping name	
· ADR, ADN, IMDG, IATA	<i>Void</i>
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	<i>Void</i>
· 14.4 Packing group	
· ADR, IMDG, IATA	<i>Void</i>
· 14.5 Environmental hazards:	
· Marine pollutant:	<i>No</i>
· 14.6 Special precautions for user	<i>Not applicable.</i>
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	<i>Not applicable.</i>
· UN "Model Regulation":	<i>-</i>

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
In the preparation of the document, the following regulations have been taken account of: legislation on health protection at work, chemical legislation and regulation on biocidal products, rules on classification, packaging and labelling chemical and biocidal products and on safety data sheets for chemicals and biocidal products, as well as regulations on the management of packaging, packaging waste and waste.

In accordance with the current chemical legislation, the product is classified as a hazardous substance or compound because it contains cement. When working with and handling the product, only general precautionary measures need to be followed.

- **Labelling according to EU guidelines:**
The content of chromium Cr(6+) in a preparation based on cement is reduced in accordance with the Regulation on the classification, packaging and labelling of dangerous preparations.
- **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

SECTION 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.

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· Relevant phrases

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

R36 Irritating to eyes.
R37/38 Irritating to respiratory system and skin.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.

· Recommended restriction of use

Indications contained by this document are based on the state of our knowledge at the moment of revision of this document. They do not present the guarantee for characteristics of the described product in terms of statutory provisions for guarantee.

Making this document available does not relieve the purchaser of this product from their responsibility to comply with applicable laws and provisions applying to this product. This is especially true for the resale of this product or mixtures made from it or products on other fields of law as well as for industrial property rights of the third party. If you process the described product or mix it with other materials, indications contained by this document cannot be transferred onto the thus obtained new product unless this is especially mentioned. In the repacking of the product, the customer must append the necessary security relevant information.

· Department issuing MSDS: Product safety department**· Contact:**

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· 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)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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