

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : UNIVERSAL FIXATIVE
Art. No. 1440
Revision date : 12.11.2015
Print date : 12.11.2015

Version (Revision) : 2.0.0 (1.0.0)

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

1.1 Product identifier

UNIVERSAL FIXATIVE
Art. No. 1440

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

Relevant identified uses

Product Categories [PC] Coatings and paints, fillers, putties, thinners

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

BIOFA Naturprodukte W.Hahn GmbH

Street : Dobelstr.22

Postal code/city : D-73087 Bad Boll

Telephone : +49 (0) 7164-9405-0

Telefax : +49 (0) 7164-9405-94

Information contact :

Respondent department: product safety department

Contact: Mr. Andrew Beuttenmüller

E-mail address of the competent person responsible for the SDS: a.beuttenmueller@biofa.de

1.4 Emergency telephone number

During office time 7:30 to 16:30: +49 (0) 7164-9405-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

None

2.2 Label elements

None

2.3 Other hazards

The product is: alkaline

Avoid contact with skin and eyes.

Results of PBT and vPvB assessment: Not applicable.

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Hazardous ingredients

None

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Contains silicic acid, potassium salt MVZ > 3,2 solids content < 40%
CAS-No. 1312-76-1 EG-No. 215-199-1
Concentration in mixture < 7%
According to present EC-regulations (directives) or respective national regulations the substance does not have to be classified.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact

Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. Clean with detergents. Avoid solvent cleaners. In case of skin reactions, consult a physician.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. If necessary remove contact lenses and continue to flush with plenty of clean, fresh water.

After ingestion

Call a physician immediately. Put victim at rest, cover with a blanket and keep warm. Do NOT induce vomiting. If vomiting occurs, be sure to avoid choking. Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam Carbon dioxide (CO₂) Water spray Extinguishing powder

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

"Fire will produce dense black smoke. Exposure to danger decomposition products may cause a health hazard." In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO₂) Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Use suitable breathing apparatus. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear breathing apparatus if exposed to vapours/dusts/aerosols. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates drains, lakes, rivers or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

For cleaning up

Larger amounts have to be pumped out. Contain and collect small spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates and spray mist arising from the application of this mixture. When using do not eat, drink, smoke, sniff. Wear personal protection equipment (refer to section 8).

Keep container tightly closed. Never use pressure to empty container. Keep/Store only in original container. Comply with health and safety regulations.

Do not allow to enter into surface water or drains.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Hints on joint storage

Keep away from: Alkali (lye). Acid Oxidising agent

Storage class : 12

Storage class (TRGS 510) : 12

Further information on storage conditions

Observe label and technical data sheet precautions. Keep only in the original container in a cool, well-ventilated place.

Protect against Heat. Frost Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

binding primers

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

None

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust

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ventilation or good general extraction.

Personal protection equipment

Safety data sheet of raw material suppliers or taken by accredited Laboratories or have been determined internally

Eye/face protection

Suitable eye protection Eye glasses with side protection

Skin protection

After cleaning apply high-fat content skin care cream.

Hand protection

Tested protective gloves must be worn DIN EN 374

Breakthrough times and swelling properties of the material must be taken into consideration.

By long-term hand contact Suitable material : Butyl caoutchouc (butyl rubber)

Thickness of the glove material 0,7 mm

Breakthrough time (maximum wearing time) > 480 min.

By short-term hand contact Suitable material : NBR (Nitrile rubber)

Thickness of the glove material 0,4 mm

Breakthrough time (maximum wearing time) > 120 min.

Body protection

Personnel should wear impermeable protective work clothing.

Recommended material Natural fibres (e.g. cotton)

Respiratory protection

Usually no personal respiratory protection necessary.

Respiratory protection necessary at: spray application

Suitable respiratory protection apparatus

Filtering device (full mask or mouthpiece) with filter: P 2

Environmental exposure controls

See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : liquid

Colour : whitish

Odour

characteristic

Odour threshold

Not determined

Safety relevant basis data

Melting point/melting range :

No data available

Initial boiling point and boiling range :

(1013 hPa)

>

100 °C

Decomposition temperature :

No data available

Flash point :

not applicable

DIN EN ISO 1523

Ignition temperature :

not applicable

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| | | | | |
|-------------------------------------|-----------|---|-------------------------|--------------------|
| Lower explosion limit : | | | | not applicable |
| Upper explosion limit : | | | | not applicable |
| Vapour pressure : | (50 °C) | | | No data available |
| Density : | (20 °C) | | 1,059 g/cm ³ | DIN 53217 |
| Solvent separation test : | (20 °C) | | | not applicable |
| Water solubility : | (20 °C) | | | completely mixable |
| pH : | | | | 10,5 - 11 |
| Flow time : | (20 °C) | < | 20 s | DIN-cup 4 mm |
| Solid content : | | | 12 - 13 Wt % | |
| Solvent content : | | | 0 Wt % | |
| Maximum VOC content (EC) : | | < | 0,1 Wt % | |
| Maximum VOC content (Switzerland) : | | < | 0,1 Wt % | |

Self-ignition: Product is not self-igniting.

danger of explosion by solvents: Not applicable

Relative density: Not determined

Vapour density: Not determined

Evaporation rate: Not determined

N-octanol-water partition coefficient: Not determined

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactivity under recommended usage, handling and storage.

10.2 Chemical stability

Stable under recommended usage, storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

Thermal decomposition can lead to the escape of irritating gases and vapours.

10.5 Incompatible materials

Alkali (lye). Acid Oxidising agent.

10.6 Hazardous decomposition products

By combustion and thermal decomposition at high temperatures, the following chemicals can be produced: Carbon dioxide. Carbon monoxide. Nitrogen oxides (NOx). carbon black.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

| | |
|------------------|---|
| Parameter : | LD50 (silicic acid, potassium salt mvz greater 3,2 ; CAS No. : 1312-76-1) |
| Exposure route : | Oral |
| Species : | Rat |
| Effective dose : | > 2000 mg/kg |

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Irritant and corrosive effects

Primary irritation to the skin

The product is: Not an irritant.

Irritation to eyes

The product is: Not an irritant.

Irritation to respiratory tract

The product is: Not an irritant.

Sensitisation

not sensitising.

Repeated dose toxicity (subacute, subchronic, chronic)

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

Toxicological data are not available.

Germ cell mutagenicity

Toxicological data are not available.

Reproductive toxicity

Toxicological data are not available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (silicic acid, potassium salt mvz greater 3,2 ; CAS No. : 1312-76-1)
Species : Leuciscus idus (golden orfe)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : > 146 mg/l
Exposure time : 48 h

Acute (short-term) daphnia toxicity

Parameter : EC50 (silicic acid, potassium salt mvz greater 3,2 ; CAS No. : 1312-76-1)
Species : Daphnia pulex (water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 146 mg/l
Exposure time : 24 h

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

12.4 Mobility in soil

No data available

Adsorption/Desorption

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

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12.6 Other adverse effects

No data available

12.7 Additional ecotoxicological information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Do not allow to enter into surface water or drains.

Product/Packaging disposal

Wastes and empty containers must be classified in accordance with the Waste Catalogue Ordinance.

Waste codes/waste designations according to EWC/AVV

Waste code product

08 01 12

Waste name

Waste paint and varnish other than those mentioned in 08 01 11*.

Waste treatment options

Appropriate disposal / Package

Packing which cannot be properly cleaned must be disposed of.

Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number

No dangerous goods in sense of this transport regulation.

14.2 UN proper shipping name

No dangerous goods in sense of this transport regulation.

14.3 Transport hazard class(es)

No dangerous goods in sense of this transport regulation.

14.4 Packing group

No dangerous goods in sense of this transport regulation.

14.5 Environmental hazards

No dangerous goods in sense of this transport regulation.

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) No. 2037/2000 concerning materials, which cause damage to the ozone layer. Not applicable

Directive 96/82/EC for danger control following severe accidents with dangerous substances Not subject to 96/82/EC

EU legislation

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Other regulations (EU)

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

VOC-value (in g/L) : max. 1

National regulations

Restrictions of occupation
None, if handled according to order.

Störfallverordnung

Not subject to StörfallVO.

Water hazard class (WGK)

Class : nwg (Non-hazardous to water) Classification according to VwVwS

Other regulations, restrictions and prohibition regulations

Betriebssicherheitsverordnung (BetrSichV)

No flammable liquid according to BetrSichV.

VOC-Regulation (31. BImSchV)

VOC product category : Paints and varnishes

VOC subcategory of the product : binding primers

VOC limit value step II (g/L), ready-to-use condition : 30

Maximum VOC content (g/L) of the product in a ready to use condition : max. 1

Additional information

Giscode : Not applicable

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this preparation were not carried out.

SECTION 16: Other information

16.1 Indication of changes

02. Classification of the substance or mixture · 02. Label elements · 07. Hints on joint storage - Storage class

16.2 Abbreviations and acronyms

None

16.3 Key literature references and sources for data

Regulation (EC) No. 1907/2006 (REACH), 1272/2008 (CLP) in the current version.

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP] Transport regulations according ADR, RID, IMDG, IATA in the current version.

Safety data sheet taken from raw material suppliers or taken by accredited Laboratories or have been determined internally

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

None

16.6 Training advice

None

16.7 Additional information

None

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
