

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

SAFETY DATA SHEET

Central Heating Leak Sealer F4

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

1.1 Product identifier

Product name Product code : Central Heating Leak Sealer F4

: 56603

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

| Identified uses | |
|----------------------------|--|
| Sealants | |
| Professional applications. | |

1.3 Details of the supplier of the safety data sheet

| e-mail address of person | : Europeanregulatory@macdermid.com |
|--------------------------|------------------------------------|
| responsible for this SDS | |

| Alpha Assembly Solutions Germany GmbH. Elisabeth-Selbert-Straße 4, 40764 Langenfeld, Germany. | Fernox UK Ltd. 2 Genesis Business Park, Albert Drive,Sheerwater, Woking, Surrey, GU21 5RW. United Kingdom. | MacDermid Alpha Hungary Kft. 2330 Dunaharaszti, Jedlik Ányos utca 2., Hungary. |
|---|--|---|
| Tel: +49 21738490313 | Tel: +44 (0) 330 100 7750 | Tel: +36 24 506 110 |

1.4 Emergency telephone number

National advisory body/Poison Centre

| : UK NPIS 0344 892 0111 (Healthcare professionals only) |
|---|
| |
| : Carechem24: (+44) 1865 407333; (+44) 1235 239 670 (across Europe) |
| : 24/7 |
| |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Not classified.

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

SECTION 2: Hazards identification

| Ingredients of unknown | : 10.5 (dermal), 16.5 (inhalation) percent of the mixture consists of component(s) of |
|------------------------|---|
| toxicity | unknown acute toxicity |

See Section 11 for more detailed information on health effects and symptoms.

| 2.2 Label elements | |
|---|---|
| Signal word | : No signal word. |
| Hazard statements | : No known significant effects or critical hazards. |
| Precautionary statements | |
| Prevention | : |
| Response | 1 · · · · · · · · · · · · · · · · · · · |
| Storage | 4 |
| Disposal | : |
| Supplemental label elements | : Not applicable. |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : Not applicable. |
| Special packaging requirem | <u>ients</u> |
| 2.3 Other hazards | |
| Dreduct recets the criterie | . This mintum data not contain any substances that an |

 Product meets the criteria
 : This mixture does not contain any substances that are assessed to be a PBT or a

 for PBT or vPvB according
 vPvB.

 to Regulation (EC) No.
 1907/2006, Annex XIII

 Other hazards which do
 : None known.

Other hazards which do : not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

SECTION 4: First aid measures

4.1 Description of first aid measures

| Eye contact | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
|----------------------------|--|
| Inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| Skin contact | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| Ingestion | : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training. |

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : No specific data.

Date of previous issue

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|--|---|
| SECTION 4: First aid | measures |
| Inhalation | : No specific data. |
| Skin contact | : No specific data. |
| Ingestion | : No specific data. |
| 4.3 Indication of any immedi | ate medical attention and special treatment needed |
| Notes to physician | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : No specific treatment. |
| SECTION 5: Firefight | ting measures |
| 5.1 Extinguishing media | |
| Suitable extinguishing media | : Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | : None known. |
| 5.2 Special hazards arising f | rom the substance or mixture |
| Hazards from the substance or mixture | : In a fire or if heated, a pressure increase will occur and the container may burst. |
| Hazardous combustion products | : Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides |
| 5.3 Advice for firefighters | |
| Special protective actions for fire-fighters | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Special protective equipment for fire-fighters | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| SECTION 6: Acciden | tal release measures |
| 6.1 Personal precautions, pr | otective equipment and emergency procedures |
| For non-emergency | : No action shall be taken involving any personal risk or without suitable training. |

| 6.3 Methods | and ma | terial for | [,] containment | and | cleaning up |
|-------------|--------|------------|--------------------------|-----|-------------|

protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any

pollution (sewers, waterways, soil or air).

information in "For non-emergency personnel".

| Small spill | : Stop leak if without risk. Move containers from spill area. Dilute with water and mop |
|-------------|---|
| | up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry |
| | material and place in an appropriate waste disposal container. Dispose of via a |
| | licensed waste disposal contractor. |

personnel

6.2 Environmental

precautions

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from

entering. Do not touch or walk through spilt material. Put on appropriate personal

information in Section 8 on suitable and unsuitable materials. See also the

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental

| SECTION 6: Accidental release measures | | |
|--|--|--|
| : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. | | |
| : See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information. | | |
| | | |

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

| Protective measures | : Put on appropriate personal protective equipment (see Section 8). |
|--|---|
| Advice on general occupational hygiene | : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s) Recommendations

: No specific measures identified.

Industrial sector specific solutions

cific : No specific measures identified.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

EU DNELs/DMELs

No DNELs/DMELs available.

EU PNECs

No PNECs available

8.2 Exposure controls

| Appropriate engineering | : Good general ve |
|-------------------------|-------------------|
| controls | contaminants. |
| | |

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Version : 5.01 Date of issue/Date of revision

SECTION 8: Exposure controls/personal protection

| Hygiene measures | : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |
|---------------------------------|---|
| Eye/face protection | : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: safety glasses with side-shields |
| Skin protection | |
| Hand protection | : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. < 1 hour (breakthrough time): disposable vinyl |
| Body protection | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: overall |
| Other skin protection | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: None assigned. |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

| Appearance | | |
|--|------|---|
| Physical state | : | Liquid. |
| Colour | : | White. |
| Odour | : | Characteristic. |
| Odour threshold | : | There are no data available on the mixture itself. |
| Melting point/freezing point | : | There are no data available on the mixture itself. |
| Initial boiling point and boiling range | : | Not available. |
| Flammability (solid, gas) | : | There are no data available on the mixture itself. |
| Upper/lower flammability or explosive limits | : | There are no data available on the mixture itself. |
| Flash point | : | Open cup: Not applicable. |
| Auto-ignition temperature | : | Not applicable. |
| Decomposition temperature | 1 | There are no data available on the mixture itself. |
| рН | : | There are no data available on the mixture itself. |
| Viscosity | : | There are no data available on the mixture itself. |
| Solubility(ies) | : | |
| Not available. | | |
| Solubility in water | : | There are no data available on the mixture itself. |
| Partition coefficient: n-octanol/ water | : | Not applicable. |
| Vapour pressure | : | <3.2 kPa (<23.8 mm Hg) |
| Version : 5.01 Date of issue/Date of re | visi | on : 1 June 2023 Date of previous issue : 13 May 2023 |

SECTION 9: Physical and chemical properties

| - | · · |
|--------------------------|--|
| Evaporation rate | : There are no data available on the mixture itself. |
| Relative density | : There are no data available on the mixture itself. |
| Density | : 1 g/cm³ [20°C (68°F)] |
| Vapour density | : There are no data available on the mixture itself. |
| Explosive properties | : There are no data available on the mixture itself. |
| Oxidising properties | : There are no data available on the mixture itself. |
| Particle characteristics | |
| Median particle size | : Not applicable. |
| 9.2 Other information | |

SAPT

: Not relevant/applicable due to nature of the product.

SECTION 10: Stability and reactivity

| 10.1 Reactivity | : Not available. |
|--|--|
| 10.2 Chemical stability | : The product is stable. |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10.4 Conditions to avoid | : No specific data. |
| 10.5 Incompatible materials | : No specific data. |
| 10.6 Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|-----------|--------------|------------|----------|
| LS-I | LD50 Oral | Rat - Female | 2001 mg/kg | - |

Conclusion/Summary : Not tested

Acute toxicity estimates

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------|------------------|-------------------|--------------------------------|-----------------------------------|--|
| LS-I | 2001 | N/A | N/A | N/A | N/A |

| Irritation/Corrosion | |
|---------------------------|--------------|
| Conclusion/Summary | |
| Skin | : Not tested |
| Eyes | : Not tested |
| Respiratory | : Not tested |
| Sensitisation | |
| Conclusion/Summary | |
| Skin | : Not tested |
| Respiratory | : Not tested |
| Mutagenicity | |

| SECTION 11: TOXICO | logical information |
|--------------------------------|---|
| Conclusion/Summary | : Not tested |
| Carcinogenicity | |
| Conclusion/Summary | : Not tested |
| Reproductive toxicity | |
| Conclusion/Summary | : Not tested |
| Teratogenicity | |
| Conclusion/Summary | : Not tested |
| Specific target organ toxicit | <u>y (single exposure)</u> |
| Not available. | |
| Specific target organ toxicit | <u>y (repeated exposure)</u> |
| Not available. | |
| Aspiration hazard | |
| Not available. | |
| | |
| Information on likely routes | : Not tested |
| of exposure | |
| Potential acute health effects | |
| Eye contact | : No known significant effects or critical hazards. |
| Inhalation | : No known significant effects or critical hazards. |
| Skin contact | : No known significant effects or critical hazards. |
| Ingestion | : No known significant effects or critical hazards. |
| | |
| Symptoms related to the phy | sical, chemical and toxicological characteristics |
| Eye contact | : No specific data. |
| Inhalation | : No specific data. |
| Skin contact | : No specific data. |
| Ingestion | : No specific data. |
| Delaved and immediate effec | ts as well as chronic effects from short and long-term exposure |
| Short term exposure | |
| Potential immediate | : Not available. |
| effects | |
| Potential delayed effects | : Not available. |
| Long term exposure | |
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |
| Potential chronic health effe | <u>ets</u> |
| Not available. | |
| Conclusion/Summary | : Not available. |
| General | : No known significant effects or critical hazards. |
| Carcinogenicity | : No known significant effects or critical hazards. |
| Mutagenicity | : No known significant effects or critical hazards. |
| Reproductive toxicity | : No known significant effects or critical hazards. |
| | |
| Other information | : No known significant effects or critical hazards. |
| | |

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary

: Ecological testing has not been conducted on this product.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Not available.

| 12.4 Mobility in soil | |
|---|------------------|
| Soil/water partition coefficient (Koc) | : Not available. |
| Mobility | : Not available. |

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

| Product | |
|---------------------|---|
| Methods of disposal | : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. |
| Hazardous waste | : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC. |

Waste catalogue

| Waste code | Waste designation | | |
|---------------------|---|--|--|
| 16 03 06 | organic wastes other than those mentioned in 16 03 05 | | |
| Packaging | | | |
| Methods of disposal | : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. | | |
| Special precautions | : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. | | |

SECTION 14: Transport information

| SECTION 14: Transport information | | | | | | |
|------------------------------------|----------------|----------------|----------------|--|--|--|
| | ADR/RID | IMDG | ΙΑΤΑ | | | |
| 14.1 UN number | Not regulated. | Not regulated. | Not regulated. | | | |
| 14.2 UN proper shipping name | - | - | - | | | |
| 14.3 Transport hazard class(es) | - | - | - | | | |
| 14.4 Packing group | - | - | - | | | |
| 14.5 Environmental hazards | No. | No. | No. | | | |

Additional information

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are user upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: Not applicable - not transported in bulk

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB) /REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : | Not applicable. |
|---|---|--|
| EU regulations Industrial emissions (integrated pollution | : | Not listed |
| prevention and control) - Air | | |
| Industrial emissions (integrated pollution prevention and control) - Water | : | Not listed |
| 15.2 Chemical safety assessment | : | This product contains substances for which Chemical Safety Assessments are still required. |

SECTION 16: Other information

Indicates information that has changed from previously issued version.

| Abbreviations and acronyms | ATE = Acute Toxicity Estimate GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = GB CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number |
|-------------------------------|--|
| | RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative |

Procedure used to derive the classification

Not classified.

Full text of abbreviated H statements

Not applicable.

Full text of classifications

Not applicable.

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|---------------------------------|---------------|
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| Version | : 5.01 |
| | |

Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Fernox SDS CLP Europe