

SAFETY DATA SHEET ACETAL FITTINGS

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPERATION AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

PRODUCT NAME ACETAL FITTINGS
PRODUCT No. FloPlast FLOFIT SYSTEM (FITTINGS)

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

APPLICATION OF THE SUBSTANCE / PREPERATION DOMESTIC HOT & COLD WATER SYSTEMS AND CENTRAL HEATING SYSTEMS

1.3 DETAILS OF THE SUPPLIER

SUPPLIER FloPlast LTD
CASTLE ROAD
EUROLINK BUSINESS PARK
SITTINGBOURNE
KENT
ME10 3FP
01795 431731
technical@floplast.co.uk

EMERGENCY TELE: 01795 431731 (08:00HRS – 17:30HRS)

SECTION 2: HAZARD IDENTIFICATION

CLASIFICATION OF SUBSTANCES

PE PEX pipes as finished product are not regarded as hazardous to health, and exhibit no chemical hazards when used under normal circumstances for the stated application(s). However, fine particles released on cutting may cause irritation to the eyes and respiratory tract.

EMERGENCY OVERVIEW

Combustion and decomposition may produce hazardous fumes

Molten material can cause thermal burns on contact with skin or eyes.

Overheating may result in release of formaldehyde, which may irritate the eyes and respiratory tract.

POTENTIAL HEALTH EFFECTS

Routes of Exposure: Skin and eye contact; inhalation of vapours, if overheated.

Signs and Symptoms of Exposure

No specific information available concerning exposure to the product. If formaldehyde is released as an off-gas, a burning sensation and tearing of the eyes may occur. An irritating odour may be noted.

IMMEDIATE EFFECTS

Inhalation:

No specific information available on the product. Dust/flake may be considered an inert nuisance particulate. Formaldehyde, which may be released if overheated, may cause irritation of the upper respiratory tract.

Skin Contact:

Hot and molten material has the potential to cause thermal burns. Polymer particles can cause mechanical irritation. Formaldehyde, which may be generated if overheated, may cause skin sensitization, and allergic reaction, which becomes evident on exposure.

Eye Contact:

No specific information available on the product. Degradation vapours may cause irritation.

Ingestion:

No specific information available on the product. However, low toxicity by this route is expected based on the biological activity of high molecular weight polyacetal polymers.

Long Term/ Delayed Effects:

No specific information available on the product. Formaldehyde may cause respiratory Sensitization.

Medical Condition Aggravated by Exposures:

No specific information available on the product. Off-gases, which may be released if overheated, may affect those with chronic diseases of the respiratory system.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This material is not classified as hazardous to Health or the Environment under current EU legislation.

BASE RESIN	> 97%
CAS-No.: 24969-26-4	EC No.:
Classification (EC 1272/2008) None	Classification (67/548/EEC) None
OTHER ADDITIVES	< 3%
CAS-No.:	EC No.:
Classification (EC 1272/2008) None	Classification (67/548/EEC) None
FORMALDEHYDE	Trace Levels
CAS-No.: 50-00-0	EC No.:
Classification (EC 1272/2008) None	Classification (67/548/EEC) None

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES**4.1 DESCRIPTION OF FIRST AID MEASURES**

After inhalation:	When gas and fumes from molten plastics is inhaled, move the exposed person to fresh air at once. Get medical attention if any discomfort or breathing difficulties occur.
After skin contact:	Contact with molten product or hot vapours may cause burns. Cool with plenty of cold water. Do not attempt to remove the solidified plastic without consulting a trained first aider. Contact with the product at room temperature is unlikely to cause irritation however, obtain medical attention if any discomfort develops.
After eye contact:	Fine particles from cutting - Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
After ingestion:	Unlikely route of exposure. If a significant quantity has been swallowed, give two glasses of water to dilute. Get medical attention should discomfort develop.

4.2 INFORMATION FOR DOCTOR:**4.2.1 Most important symptoms and effects, both acute and delayed**

This product is essentially inert and nontoxic. However, if it is overheated or burns, gases such as carbon monoxide and formaldehyde may be released. Those exposed to off-gases may need to have their arterial blood gases and carboxyhemoglobin levels checked. If the carboxyhemoglobin levels are normal and the exposure occurred in an enclosed space, asphyxia (carbon dioxide replacing oxygen) is a possibility. Formaldehyde is a respiratory irritant gas. If patients may have inhaled high concentrations of irritating fumes they should be monitored for delayed onset pulmonary edema.

4.2.2 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Extinguish with Carbon dioxide, Dry Chemical, Foam or Water spray.

Do not use water jet as an extinguisher, as this will spread the fire.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Avoid breathing fire vapours. Beware of toxic gases and fumes which can be given off from a fire including Carbon Monoxide and Carbon Dioxide.

If risk of water pollution occurs, notify appropriate authorities.

5.3 ADVICE FOR FIREFIGHTERS

Firefighters should wear self-contained breathing apparatus and full fire-fighting turn-out gear(bunker gear). Keep personnel removed from and unwind of fire. Water should be used to keep fire-exposed containers cool. Product burns with a very hot, but very faint blue flame. Water, foam and dry chemical may cause damage to electrical equipment.

5.4 ADDITIONAL INFORMATION

None available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECUATIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Not applicable.

6.2 ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses.

Avoid release to the environment.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Not applicable.

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 OF SAFE HANDLING

Avoid dust formation if cutting.

Avoid eating, drinking and smoking when using the product.

Observe good industrial hygiene practices.

Gloves should be worn if edges are sharp where products have been broken.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPTABILITIES

Products should preferably be stored in dry covered conditions away from direct sources of heat, including sunlight.

During storage it must be recognised that the packaging and pallets may themselves be a fire risk, and are generally a much more likely route for rapid fire spread.

7.3 SPECIFIC END USE(S)

No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

8.1.1 Occupational Exposure Limits

Name	STD	TWA – 8 Hrs		STEL – 15 Min	
Total Inhalable Dust	WEL		15 mg/m ³ (Sk)		
Total Respirable Dust	WEL		5 mg/m ³ (Sk)		
Formaldehyde	WEL		0.75 ppm		2 ppm

8.1.2 Decomposition Products With Occupational Exposure Limits

No information available

8.2 PROTECTIVE EQUIPMENT

8.2.1 General protective and hygienic measures:

Appropriate workwear

Provide adequate general and local exhaust ventilation, when cutting and wear a suitable dusk mask.

8.2.2 Respiratory protection:

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive dust formation occurs. Seek advice.

8.2.3 Protection of hands:



Protective gloves recommended

For prolonged or repeated skin contact use suitable protective gloves.

8.2.4 Eye protection:



Eye protection

Wear protective goggles to prevent any possibility of eye contact especially when cutting.

8.2.5 Skin protection:

Standard industrial protective clothing

8.2.5 Body protection:

Not necessary

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

9.1.1 Appearance:

Form:	Solid plastic articles
Colour:	White
Odour:	Slight characteristic odour
Flash point:	Not available
Melting Point:	>165°C
Relative Density:	Approx. 1.38 – 1.42
Solubility:	Negligible

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

10.2 CHEMICAL STABILITY

Stable under normal temperature conditions and recommended use

Avoid sources of ignition

10.3 THERMAL DECOMPOSITION/CONDITIONS TO BE AVOIDED

Decomposition of this material depends on the length of time exposed to elevated temperatures, however at room temperature no hazardous decomposition products are known.

10.4 POSSIBILITY OF HAZARDOUS REACTIONS

No further relevant information available.

10.5 CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time.

10.6 INCOMPATIBLE MATERIALS

Strong bases and acids (decomposes forming formaldehyde) and oxidising materials.

10.7 HAZARDOUS DECOMPOSITION PRODUCTS

None under normal conditions.

Thermal decomposition or combustion may liberate Trioxane, Formaldehyde and Formic acid.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 ACUTE TOXICITY

11.2 PRIMARY IRRITANT EFFECT

11.2.1 on the skin:

No harmful effects expected

11.2.2 on the eye:

Dust formed during cutting may cause irritation.

11.2.3 Sensitization:

Material is practically inert from a physiological point of view.

11.2.4 Inhalation:

Dust formed during cutting may be irritating to the respiratory tract.

11.2.4 Ingestion:

No harmful effects expected.

11.3 ADDITIONAL TOXICOLOGICAL INFORMATION

No further relevant information available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

There is no risk to the environment from the use of this product.

The product is insoluble in water.

The product has no mobility in soil.

There is no evidence for biodegradability in water or soil.

Aceta is not harmful to aquatic organisms.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

13.1.1 Recommendations

Waste products come within the scope of the Environmental Protection (Duty of Care) Regulations.

Disposal of waste materials in accordance with local Waste regulations

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

Recycle where it is practical to do so.

13.2 UNCLEANNED PACKAGING

13.2.1 Recommendation

Disposal of waste materials in accordance with local Waste regulations

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

Recycle where it is practical to do so.

SECTION 14: TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

15.2 LABELLING ACCORDING TO EU REGULATIONS

The product has been classified as non hazardous to the latest EEC regulations.

15.3 CODE LETTER AND HAZARD DESIGNATION OF PRODUCT

15.4 RISK PHRASES

Not classified

15.5 SAFETY PHRASE

Not classified

15.6 EU DIRECTIVES

Not classified

15.7 APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

15.8 GUIDANCE NOTES

Workplace Exposure Limits EH40.

SECTION 16: OTHER INFORMATION

The safety data sheet has been compiled using current information supplied by the distributors of the raw materials. For further information consult the product data sheet or contact FloPlast's Technical Department.

Issued By Neil Harrison
Department Quality/Environmental/Health and Safety
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Revision 3

Risk Phrases in Full

NC Not classified.

INFORMATION FOR DOWNSTREAM USERS ONLY; NAMELY,

Any natural or legal person established within the community, other than the manufacturer or the importer, who uses a substance, either on its own or in a preparation, in the course of his industrial or professional activities. A distributor or a consumer is not a downstream user.

DISCLAIMER

This information relates only to the specific material as supplied and may not be valid for such material if used in combination with any other material(s) or in any other process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. The data should not be construed as guaranteeing specific properties of the product described or its suitability for a particular application, nor does it make any warranty, either express or implied of merchantability for the product itself. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.