

WÜRTH GULF SUBMITTAL

JOINT FOAM FIRE-RESISTANT PLUS

MSDS



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

0893 303402 - JOINT FOAM FIRE-RESISTANT PLUS-750ML-B1

Version 1.0

Revision Date 26.08.2013

Print Date 17.12.2013

AE / EN

1. Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Commercial Product Name : JOINT FOAM FIRE-RESISTANT PLUS-750ML-B1
Product code : 0893 303402
MSDS-Identcode : 10045209

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

Use of the Substance/Mixture : Sealant

1.3 Details of the supplier of the safety data sheet

Company : Wurth Gulf Fze
POBox 17036
Dubai
Utd.Arab Emir.
E-mail address: wurthglf@emirates.net.ae
Telephone : +9714 8834229
Telefax : +9714 8834303
Responsible/issuing person : E-mail address: prodsafe@wuerth.com

1.4 Emergency telephone number

Emergency telephone Advisory office in case of poisoning
+9714 8834229

Telephone number of the company in case of emergencies
+97150 5646023

2. Hazards identification**2.1 Classification of the substance or mixture****Classification (67/548/EEC, 1999/45/EC)**

Extremely flammable	R12: Extremely flammable.
Harmful	R20: Harmful by inhalation. R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Carcinogenic Category 3	R40: Limited evidence of a carcinogenic effect.
Sensitising	R42/43: May cause sensitisation by inhalation and skin contact.
Irritant	R36/37/38: Irritating to eyes, respiratory system and skin.

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Dangerous for the environment

R53: May cause long-term adverse effects in the aquatic environment.

R64: May cause harm to breastfed babies.

2.2 Label elements

Labelling according to EC Directives: 1999/45/EC

Hazard symbols

:



Extremely
flammable

Harmful

R-phrase(s)

:

R12
R20
R36/37/38
R40
R42/43

Extremely flammable.
Harmful by inhalation.
Irritating to eyes, respiratory system and skin.
Limited evidence of a carcinogenic effect.
May cause sensitisation by inhalation and skin contact.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R53 May cause long-term adverse effects in the aquatic environment.
R64 May cause harm to breastfed babies.

S-phrase(s)

:

S23
S26
S33
S36/37
S45
S51

Do not breathe spray.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Take precautionary measures against static discharges.
Wear suitable protective clothing and gloves.
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Use only in well-ventilated areas.

Hazardous components which must be listed on the label:

- Diphenylmethanediisocyanate, isomeres and homologues

Special labelling of certain mixtures

:

Contains isocyanates. See information supplied by the manufacturer.
Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.
Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material.
Keep away from sources of ignition - No smoking.
Keep out of the reach of children.

2.3 Other hazards

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no data available

3. Composition/information on ingredients
3.2 Mixtures
Hazardous components

Chemical Name	CAS-No.	Classification (67/548/EEC)	Classification (1272/2008/EC)	Concentration [%]
	EC-No.			
	Registration number			
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	Xn; R20-R48/20 Xi; R36/37/38 Carc.Cat.3; R40 R42/43	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 STOT RE 2; H373	>= 45 - < 50
Tris(2-chloro-1-methylethyl) phosphate	13674-84-5	R52/53	Aquatic Chronic 3; H412	>= 12,5 - < 15
	237-158-7			
alkanes, C14-17, chloro	85535-85-9	R64 R66 N; R50-R53	Lact. H362 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 3 - < 5
	287-477-0			
Halogenated polyether polyol molecular mass 468 g	86675-46-9	Xn; R22	Acute Tox. 4; H302	>= 2 - < 3
WEL substance :				
dimethyl ether	115-10-6	F+; R12	Flam. Gas 1; H220 Press. Gas H280	>= 7 - < 10
	204-065-8			

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
4.1 Description of first aid measures

General advice

: Symptoms of poisoning may appear several hours later. Call a doctor immediately if allergic signs, particularly in the respiratory tract, are observed. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give

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- anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
- If inhaled : If breathed in, move person into fresh air. Call a physician immediately. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- In case of skin contact : Call a physician immediately. In case of contact, immediately flush skin with soap and plenty of water. Do NOT use solvents or thinners. Wash off with polyethylene glycol and afterwards with plenty of water.
- In case of eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position.

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media : Foam, Carbon dioxide (CO₂), Sand, Dry powder

Unsuitable extinguishing media : Water

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products may be formed under fire conditions (see section 10). Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

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

Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes.

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Use water spray to cool unopened containers. 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. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Remove all sources of ignition. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Immediately evacuate personnel to safe areas. Avoid inhalation of vapour or mist. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Avoid release to the environment. Refer to special instructions/ Safety data sheets.

6.3 Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Do not flush with water. Clean contaminated surface thoroughly.

6.4 Reference to other sections

see chapter: 7, 8, 11, 12 and 13

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

: For personal protection see section 8. Limit the stocks at work place. Use with local exhaust ventilation. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Do not spray on a naked flame or any incandescent material. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Take precautionary measures against static discharges. Handle with care. 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.

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Advice on protection against fire and explosion : Normal measures for preventive fire protection. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Keep away from heat and sources of ignition. Do not smoke. No sparking tools should be used. Electrical equipment should be protected to the appropriate standard.

Dust explosion class : not applicable

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in a place accessible by authorized persons only. Store in original container. BEWARE: Aerosol is pressurized. Keep away from heat. Keep away from direct sunlight. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in a well-ventilated place. Do not keep the container sealed. Please observe the storage instructions for aerosols!

Advice on common storage : Incompatible with acids. Incompatible with oxidizing agents. Incompatible with bases.

Keep away from food, drink and animal feedingstuffs. Never allow product to get in contact with water during storage. Do not store together with oxidizing and self-igniting products.

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

7.3 Specific end use(s)

no data available

8. Exposure controls/personal protection**8.1 Control parameters**

Components	CAS-No.	Control parameters	Basis	Update
dimethyl ether	115-10-6	TWA: 1.920 mg/m ³ , 1.000 ppm	2000/39/EC	2000-06-16

Other information on limit values: see chapter 16

8.2 Exposure controls**Engineering measures**

Provide sufficient air exchange and/or exhaust in work rooms.

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Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Respirator with filter type A

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

Hand protection

Material : Polyethylene
Glove thickness : 0,025 mm
Breakthrough time: : > 30 min

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection : Tightly fitting safety goggles

Skin and body protection : Flame retardant antistatic protective 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.
General industrial hygiene practice.
Do not inhale aerosol.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Follow the skin protection plan.
Wash contaminated clothing before re-use.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
Avoid release to the environment. Refer to special instructions/ Safety data sheets.

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9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance	: aerosol
Propellant	: dimethyl ether, isobutane
Colour	: no data available
Odour	: characteristic
Odour Threshold	: no data available
Flash point	: -21 °C
	Solvent mixture
Ignition temperature	: 199 °C
Thermal decomposition	: no data available
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Explosive properties	: no data available
Flammability	: no data available
Oxidizing properties	: no data available
Auto-ignition temperature	: not auto-flammable
Burning number	: no data available
Molecular Weight	: no data available
pH	: no data available
Vapour pressure	: no data available
Density	: 22 - 26 kg/m ³
Bulk density	: no data available
Water solubility	: insoluble
Partition coefficient: n-octanol/water	: no data available
Solubility in other solvents	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: no data available
Flow time	: no data available
Impact Sensitivity	: no data available
Relative vapour density	: no data available
Surface tension	: no data available
Evaporation rate	: no data available
Minimum ignition energy	: no data available
Acid number	: no data available
Refraction index	: no data available
Miscibility in water	: no data available
Solvent separation test	: no data available

9.2 Other information

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None known.

10. Stability and reactivity**10.1 Reactivity**

no data available

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Stability : No decomposition if stored and applied as directed.
Vapours may form explosive mixtures with air. Evolution of CO₂ in closed containers causes overpressure and produces a risk of bursting. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure. Reacts violently with water. Mixture reacts slowly with water resulting in evolution of CO₂.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents, Acids, Bases
Water

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon monoxide, nitrogen oxides (NO_x), Hydrogen cyanide (hydrocyanic acid)

11. Toxicological information**11.1 Information on toxicological effects****Acute toxicity**Acute oral toxicity:

no data available

Acute inhalation toxicity:

Diphenylmethanediisocyanate, isomeres and homologues : LC50 : > 10 - 20 mg/l
Test atmosphere: vapour
Exposure time: 4 h

dimethyl ether : LC50 rat: 164000 ppm
Test atmosphere: gas
Exposure time: 4 h

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Acute dermal toxicity:

no data available

Acute toxicity (other routes of administration):

no data available

Skin corrosion/irritation

Diphenylmethanediisocyanate, isomeres and homologues : Severe skin irritation

alkanes, C14-17, chloro : Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Diphenylmethanediisocyanate, isomeres and homologues : irritating

Respiratory or skin sensitisation

Sensitisation : May cause sensitisation by inhalation and skin contact.

Germ cell mutagenicity

Genotoxicity in vitro:

no data available

Genotoxicity in vivo:

no data available

Carcinogenicity

Remarks
Diphenylmethanediisocyanate, isomeres and homologues : Carcinogenicity:
Suspected human carcinogens

Reproductive toxicity

alkanes, C14-17, chloro : Note: Effects on or via lactation

Teratogenicity

no data available

STOT - single exposure

Diphenylmethanediisocyanate, isomeres and homologues : May cause respiratory irritation.

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STOT - repeated exposure

Diphenylmethanediisocyanate, isomeres and homologues : May cause damage to organs through prolonged or repeated exposure.

Aspiration hazardAspiration toxicity

no data available

Neurological effects

no data available

Toxicology AssessmentToxicology, Metabolism, Distribution

no data available

Acute effects

no data available

Further information

: Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.

12. Ecological information**12.1 Toxicity**Toxicity to fishdimethyl ether : LC50 (Poecilia reticulata (guppy)): >= 4,1 mg/l
Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates: (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Note: Data from similar compositionsToxicity to algae: (Desmodesmus subspicatus (green algae)): > 100 mg/l
Note: Data from similar compositions**Ecotoxicology Assessment**Acute aquatic toxicity

Tris(2-chloro-1-methylethyl) phosphate : Harmful to aquatic life.

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alkanes, C14-17, chloro : Very toxic to aquatic life.

Chronic aquatic toxicity

Tris(2-chloro-1-methylethyl) phosphate : Harmful to aquatic life with long lasting effects.

alkanes, C14-17, chloro : Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effectsAdditional ecological information : The product should not be allowed to enter drains, water courses or the soil.

13. Disposal considerations**13.1 Waste treatment methods**Advice on disposal and packaging : Disposal:
In accordance with local and national regulations.
Waste codes should be assigned by the user based on the application for which the product was used.

The following Waste Codes are only suggestions:

Waste Code (EWC) : Waste Key (unused product):
150110, packaging containing residues of or contaminated by dangerous substancesWaste key (used product):
150110, packaging containing residues of or contaminated by dangerous substancesDisposal of uncleaned packaging : Waste key (uncleaned packaging):
150110, packaging containing residues of or contaminated by dangerous substances

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Note: Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum. Please ensure aerosol cans are sprayed completely empty (including propellant) Containers that have not been emptied in compliance with regulations are regarded as hazardous waste. Dispose of as unused product.

14. Transport information**ADR**

UN number : 1950
Description of the goods : AEROSOLS
Class : 2
Packing group : --
Classification Code : 5F
Labels : 2.1
Limited quantity : LQ2
Tunnel restriction code : (D)
Environmentally hazardous : no

RID

UN number : 1950
Description of the goods : AEROSOLS
Class : 2
Packing group : --
Classification Code : 5F
Hazard identification No : 23
Labels : 2.1
Limited quantity : LQ2
Environmentally hazardous : no

IATA

UN number : 1950
Description of the goods : Aerosols, flammable
Class : 2.1
Packing group : --
Labels : 2.1
Packing instruction (cargo aircraft) : 203
Environmentally hazardous : no
Packing instruction (passenger aircraft) : 203
Packing instruction (LQ) : Y203

IMDG

UN number : 1950
Description of the goods : AEROSOLS

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R12	Extremely flammable.
R20	Harmful by inhalation.
R22	Harmful if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R40	Limited evidence of a carcinogenic effect.
R42/43	May cause sensitisation by inhalation and skin contact.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R50	Very toxic to aquatic organisms.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.
R64	May cause harm to breastfed babies.
R66	Repeated exposure may cause skin dryness or cracking.

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

H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
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.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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