

Ref: 111 – Fill n Fix Foam

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY:

- 1.1 Product Name:** **FILL n FIX FOAM**
- 1.2 Applications:** Multi-purpose sealant, filler & adhesive
- 1.3 Supplier:** Palace Chemicals Ltd; Speke Hall Industrial Estate; Speke; Liverpool; L24 1YA
Tel: 0151 486 6101; Fax 0151 448 1982
e-mail: sales@palacechemicals.co.uk; web: www.palacechemicals.co.uk
- 1.4 Emergency Telephone No.** Tel: 0151 486 6101 – Mon-Fri: 0800 - 1800

2. HAZARDS IDENTIFICATION:

- 2.1 Classification:** (EC 1272/2008) **Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life.**
Carc. 2. Suspected of causing cancer.
Eye Irrit. 2. Causes serious eye irritation.
Flam. Aerosol 2. Flammable aerosol.
Lact.. May cause harm to breast-fed children.
Resp. Sens. 1. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Irrit. 2. Causes skin irritation.
Skin Sens. 1. May cause an allergic skin reaction.
STOT SE 3. May cause respiratory irritation.



- 2.2 Label elements:** Signal Word: **DANGER**

- 2.2 Label elements:**
Hazard statements: H225 Highly Flammable liquid & vapour
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H351 Suspected of causing cancer
H362 May cause harm to breast fed children
H413 May cause long lasting harmful effects to aquatic life

- Precautionary statements:** P202: Do not handle until all safety precautions have been read and understood.
P211: Do not spray on an open flame or other ignition source.
P251: Pressurized container: Do not pierce or burn, even after use.
P261: Avoid breathing spray.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P281: Use personal protective equipment as required.
P285: In case of inadequate ventilation wear respiratory protection.
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P304+341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep comfortable for breathing.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P308+313: IF exposed or concerned: Get medical advice.
P312: Call a doctor if you feel unwell.
P321: Specific treatment (see on this label).
P332+313: If skin irritation occurs: Get medical advice.
P337+313: If eye irritation persists: Get medical attention.

- 2.3 Other hazards:** Contains iso-cyanates. May produce an allergic reaction.
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. Build up of explosive mixtures possible without sufficient ventilation.

- Results of PBT and vPvB assessment**
· PBT: Not applicable.
· vPvB: Not applicable.



3. COMPOSITION / INFORMATION ON INGREDIENTS:

3.1 Substances: Not Applicable

3.2 Mixtures: See below:

Name:	CAS No.:	EC No	Concentration:	Classification:
Polymethyl, polyphenyl polyisocyanate isomers & homologues	9016-87-9	Mixture	30.0 – 60.0%	Xn; Xi; R20; R36/37/38; R40; R42/43; R48/20
Alkanes C14 – C17, chloro	85535-85-9	287-477-0	<20.0%	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Lact., H362
Propane	74-98-6	200-827-9	<15.0%	Flam. Gas 1, H220; Press. Gas, H280
Butane	106-97-8	203-448-7	<15.0%	Flam. Gas 1, H220; Press. Gas, H280
Iso-butane	75-28-5	200-857-2	<15.0%	Flam. Gas 1, H220; Press. Gas, H280
Di-methyl ether	115-10-6	204-065-8	<15.0%	Flam. Gas 1, H220; Press. Gas, H280

4. FIRST AID MEASURES:

4.1 Description of measures:

EYE CONTACT: Avoid working in a poorly ventilated, confined space. Remove to fresh air and rest. If irritation or breathing difficulties persist, seek medical attention.

INHALATION: Remove all contaminated clothes and footwear immediately unless stuck to skin. Remove/soften cured foam from skin with petroleum jelly or via constant softening with hot soapy water. Remove uncured foam using a piece of cloth and a non-aggressive solvent, e.g. ethanol. Cured foam can be removed mechanically with a brush, soap and plenty of water. Use protective cream after skin has been cleaned.

SKIN CONTACT: Clean out mouth with copious volumes of water and drink plenty. Do not induce vomiting. Beware of aspiration if vomiting occurs. Seek prompt medical attention and show this data sheet

INGESTION: Irrigate thoroughly for 15 minutes with clean running water or a boric saline eye wash bottle. Seek medical attention should eye irritation persist or become inflamed.

4.2 Acute & Chronic symptoms:

Inhalation: Inhalation of vapours may cause headache & nausea.

Skin Contact: Skin Contact may cause redness if unattended.

Eye Contact: Eye contact may cause redness and transient pain.

Ingestion: Ingestion may be fatal if swallowed and enters airways.

4.3 Immediate medical attention: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor. Remove/soften cured foam from skin with petroleum jelly or via constant softening with hot soapy water

5. FIRE FIGHTING MEASURES:

5.1 Extinguishing media: Alcohol or polymer foam. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

5.2 Combustion Hazards: Hazardous decomposition when subject to combustion – will produce noxious, irritating fumes.

5.3 Advice for fire-fighters: Extremely flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture. Carbon monoxide (CO); Nitrogen oxides (NOx); Hydrogen chloride (HCl); Hydrogen cyanide (HCN) Can form explosive gas-air mixtures. Vapour may travel considerable distance to source of ignition and flash back.

6. ACCIDENTAL RELEASE MEASURES:

- 6.1 Personal protection:** Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.
- 6.2 Environmental precautions:** Do not allow spill to enter drains or watercourses. Form a dam with sand, earth or a boom. Absorb bund and scrape spillages onto sand, sawdust or absorbent granules.
- 6.3 Spill removal methods:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Do not use equipment in clean-up procedure which may produce sparks. Allow product to solidify and remove it by mechanical means. Remove uncured foam with acetone Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING & STORAGE:

- 7.1 Safe handling precautions:** Ensure adequate ventilation and use all recommended personal protective equipment. When transporting always ensure the container is secured in a fixed upright position and is not subject to any downward load or pressure to the top of the can.
- 7.2 (a) Safe storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition. Store in original containers between +5 and +25°C. Storage outside these limits will dramatically reduce shelf life and invalidates all product warranties.
- 7.2 (b) Incompatible materials:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.
- 7.3 Specific end uses:** The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION:

8.1 Control parameters

Substance:	8 hour exposure limit	15 minute exposure limit	Source. Type
Polymethyl, polyphenyl polyisocyanate isomers & homologues	0.02 mg/M3	0.07 mg/M3	airborne
Propane	1800 mg/M3	7200 mg/M3	airborne
Butane	1450 mg/M3	1810 mg/M3	airborne
Iso-butane	9600 mg/M3	2400 mg/M3	airborne
Di-methyl ether	766 mg/M3	958 mg/M3	airborne

8.2 Exposure controls:

Engineering controls: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protections: Gas/vapour filter, type A: organic vapours (EN141). must be worn if vapour concentration is above OES or if ventilation is poor Self-contained breathing apparatus must be available in case of emergency.



Hand protection: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed - **Material of gloves** - Butyl rubber, BR; **Recommended thickness of the material** - 0.7 mm **Penetration time of glove material** - 60 min



Eye protection: BS 2092 Goggles should be worn for all applications to help prevent accidental face/eye contact. The use of a visor is also recommended if this is more appropriate to the mode of use.



Skin protection: A disposable PVC apron should be worn on top of overalls, however if the fabric becomes contaminated these should be laundered immediately





9. PHYSICAL & CHEMICAL PROPERTIES:

Appearance:	Straw yellow paste	Relative density:	0.99 @ 20°C
Odour:	Barely perceptible	Water solubility:	Insoluble
Odour threshold:	N/D	Solubility in oils:	Acetone only
pH:	N/D	Partition coefficient (Kow):	N/D
Flash point:	0°C	Auto-ignition temperature:	235 °C
Melting point:	N/D	Decomposition temperature:	n/d
Boiling point:	230 – 390 °C	Evaporation rate:	n/d
Evaporation rate:	N/D	Viscosity:	Highly viscous
Upper/Lower Flam limits:	3.0% / 16.0%	Explosive properties:	n/d
Vapour pressure:	6 bar	Oxidising properties:	n/a
Vapour density:	N/D	VOC content:	18.5%

10. STABILITY & REACTIVITY:

10.1 Conditions to avoid:	Heat & sources of ignition	10.4 Reactivity:	No data to show significant reactivity
10.2 Incompatible Materials:	Oxidising agents	10.5 Chemical reactivity:	As above
10.3 Decomposition hazards:	Carbon & Nitrous oxides & fine particulates	10.6 Risk of hazardous reaction:	As above

11. TOXICOLOGICAL INFORMATION:

11.1 Information on toxicological effects: This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its' major components.

Routes of exposure:	Inhalation & ingestion	Skin Corrosivity / Irritation:	Irritating to skin
Eye damage/irritation:	May cause redness & pain	Respiratory/skin sensitisation:	Skin & Inhalation sensitiser
Reproductive toxicity:	None known	Germ cell Mutagenicity:	Not applicable
STOT single exposure:	None known	Carcinogenicity:	Carc. 2, Lact.
STOT repeat exposure:	None known	Aspiration hazard:	n/a

12. ECOLOGICAL INFORMATION:

12.1 Ecotoxicity:	Negligible eco-toxicity. Not dangerous to ozone layer (1999/45/EC)	12.4 Mobility in soil:	VOC 20% w/w
12.2 Bio-accumulative potential:	No data available	12.5 PBT and vPvB result:	No
12.3 Persistence & degradability:	No data available	12.6 Other effects:	Very toxic to aquatic organisms

13. DISPOSAL CONSIDERATIONS:

- 13.1 Waste treatment Methods:** Waste material code (91/689/EEC, Council Decision 2001/118/EC, O.J L47 of 16/2/2002):
08 05 01 (waste isocyanates) – Cured material can be disposed as general waste.
16 05 04 gases in pressure containers (including halons) containing dangerous substances
08 05 01 waste isocyanates
15 01 10 packaging containing residues of or contaminated by dangerous substances

Unused product must be considered flammable and disposed of in accordance with local authority regulations for aerosol packs.

14. TRANSPORT INFORMATION:

Transport Labels:



Regulatory Code (Land, Sea & Air):

	ADR	IMDG	ICAO
14.1 UN No.:	1950	1950	1950
14.2 Proper shipping name:	AEROSOLS	AEROSOLS	AEROSOLS
14.3 Classification code:	5F		
14.4 Class:	2	2.1	2.1 +EHS
14.5 Environmental hazards.	Marine Pollutant	Marine Pollutant	
14.6 Special user precautions:	N/A	N/A	
14.7 Transport Category:			
14.8 Emergency Action Code			
14.9 Hazard Identification Number			

15. REGULATORY INFORMATION:

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

All components are listed as existing substances in Europe

UK Regulatory References:

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations. Environmental Listing - Control of Pollution Act 1974. Control of Pollution (Special Waste Regulations) Act 1980.

Statutory Instruments:

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Approved Code Of Practice Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes:

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

EU Legislation:

Dangerous Substance Directive 67/548/EEC.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

National Regulations:

Users of this product are reminded of their duties under the current Control of Substances Hazardous to Health Regulations and a suitable and sufficient assessment of all the risk should be undertaken before using this product.

Authorisations (Title VII Regulation 1907/2006) - No specific authorisations are noted for this product.

Restrictions (Title VIII Regulation 1907/2006) - No specific restrictions of use are noted for this product.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this product.

16. OTHER INFORMATION:

Last revision date: 8th April 2015

SDS No.: 111

List of abbreviations used in this SDS:

CAS	Chemical abstracts service
CLP	Classification, labelling & packaging regulation (EC) No. 1272/2008
DSD	Dangerous substances Directive 67/548/EEC
DPD	Dangerous Products Directive 1999/45/EC
PBT	Persistent, Bio-accumulative & Toxic
REACH	Registration, Evaluation, Authorisation & Restriction of Chemicals Regulation (EC) 1907/2006
vPvB	Very Persistent, very Bio-accumulative



References: EH40 as published
The Chemical (Hazard Information and Packaging for Supply) Regulations 2009 SI 2009/716 (**CHIP 4**)
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 SI 2009/1348 (**CDG 2009**)
Dangerous Goods Emergency Action Code List 2011
Hazardous Waste (England and Wales) Regulations 2005 SI 2005/894 (**HWR**)
The List of Wastes (England) Regulations 2005 SI 2005/895 (**LoWR**)
The Approved Classification and Labelling Guide (sixth edition)
"Registration, Evaluation, Authorisation and Restriction of Chemicals (**REACH**)" 1907/2006/EC
The Classification, Labelling and Packaging Regulation (EC) No. 1272/2008 (**CLP**)

Classification & methods: This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006.

Classification: Aquatic Chronic 2. Toxic to aquatic life with long lasting effects.
Carc. 2. Suspected of causing cancer.
Eye Irrit. 2. Causes serious eye irritation.
Flam. Aerosol 2. Flammable aerosol.
Lact.. May cause harm to breast-fed children.
Resp. Sens. 1. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Irrit. 2. Causes skin irritation.
Skin Sens. 1. May cause an allergic skin reaction.
STOT SE 3. May cause respiratory irritation.

H Phrases in section 3: H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.
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.

Training for workers:

Disclaimer: The information supplied in this safety data sheet is intended to assist in the use of the above product without risk to safety and health and is based on current knowledge and experience of the associated physico-chemical hazards. The data does not signify any warranty with regard to the product's properties. This information may be used to assist in formulating a COSHH risk assessment if applied at work. This data sheet complies with EC Directive 91/155EC.