SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 1272/2008 (CLP)

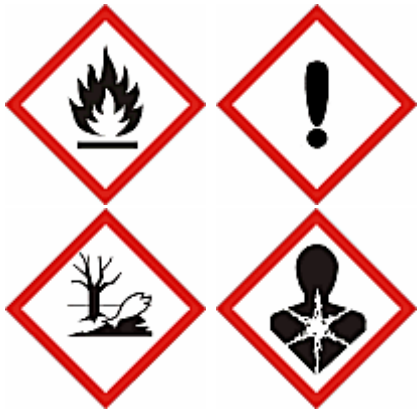
SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	**Product identifier**	
	Product Name	Pang Bead and Repair Sealer
	Product Code(s)	B77 F
1.2	**Relevant identified uses of the substance or mixture and uses advised against**	
	Identified use(s)	Sealant between wheel flange and tyre bead. Product is for professional use only
	Uses advised against	None identified
1.3	**Details of the supplier of the Safety Data Sheet**	
	Company Identification	Tech Europe 15 Ballinderry Road Lisburn BT28 2SA UK
	Telephone	+44 2892 665721
	E-Mail (competent person)	info@eurotyrerepair.com
1.4	**Emergency telephone number**	
	Emergency Phone No.	+44 2892 665721 (09.00 – 17.00 GMT) +1 703 527 3887 (Chemtrec – U.S. All other times)

SECTION 2: HAZARDS IDENTIFICATION

2.1	**Classification of the mixture**	
2.1.1	**Regulation (EC) No. 1272/2008 (CLP)**	Flam. Liq. 2, Asp.Tox.1, Aquatic Chronic 2, Skin Irrit. 2; STOT SE 3
2.1.2	**Directive 67/548/EEC & Directive 1999/45/EC**	F: Highly flammable Xi: Irritant Xn:Harmful R11: Highly flammable R22: Harmful if swallowed R42: May cause sensitisation by inhalation R51/53: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment R65: Harmful: may cause lung damage if swallowed R67: Vapours may cause drowsiness and dizziness
2.2	**Label elements**	
2.2.1	**Label elements**	According to Regulation (EC) No. 1272/2008 (CLP)

Hazard Pictogram(s)



Signal word — Danger

Hazard statement(s)
H225: Highly flammable liquid and vapour.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H336: May cause drowsiness or dizziness.
H411: Toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P101: If medical advice is needed, have product container or label at hand.
P210: Keep away from heat, sparks, open flame, hot surfaces - No smoking
P233: Keep container tightly closed.
P273: Avoid release to the environment.
P281: Use personal protective equipment as required.
P301 + P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P403: Store in a well-ventilated place.
P501: Dispose of contents/container to: hazardous waste site

2.2.2 Label elements

According to Directive 67/548/EEC & Directive 1999/45/EC

Hazard Symbol

Risk Phrases
R11: Highly flammable
R22: Harmful if swallowed.
R38: Irritating to skin
R42: May cause sensitisation by inhalation.
R52/53: Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment
R65: Harmful: may cause lung damage if swallowed
R67: Vapours may cause drowsiness and dizziness

Safety Phrases
S7/9 - Keep container tightly closed and in a well-ventilated place.
S16 **-** Keep away from sources of ignition - No smoking.
S23 – Do not breathe vapour
S36/37 - Wear suitable protective clothing and gloves.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S60 - This material and its container must be disposed of as hazardous waste.

2.3 Other hazards None

2.4 Additional Information None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)
Solvent naphtha (petroleum),light aliphatic	75 - 90	64742-89-8	265-192-2	05-2114107985-43	Aquatic Chronic 2, H411 Asp. Tox. 1, H304 Flam.Liq. 2, H225 Skin Irrit. 2, H315 STOT SE3, H336
Proprietary	0 - 25			Not available	Resp. Sens. 1, H334 Skin Irrit. 2, H315 Aquatic Chronic 4, H413

EC Classification No. 67/548/EEC

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	EC Classification and Risk Phrases
Solvent naphtha (petroleum),light aliphatic	90 - 100	64742-89-8	265-192-2	05-2114107985-43	F, Xn, Xi, N R11, R38, R51/53, R65, R67
Proprietary	0.1 - 25			Not available	R42 R53

3.3 Additional Information

For full text of H/P phrases see section 16.

According to Note P in Regulation EC1272/2008 “The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).”

SECTION 4: FIRST AID MEASURES

4.1	**Description of first aid measures**	
	Inhalation	Remove persons affected by vapour to fresh air. For those providing assistance, avoid exposure to yourself or others. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing is irregular or has stopped, administer artificial respiration.
	Skin Contact	Remove contaminated clothing and wash affected skin with water. Wash contaminated clothing before reuse.
	Eye Contact	If substance has got into the eyes, immediately wash out with plenty of water until medical assistance is provided.
	Ingestion	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
4.2	**Most important symptoms and effects, both acute and delayed**	Headache, dizziness, drowsiness, nausea, and other CNS effects. Numbness, muscle cramps, weakness and paralysis that may be delayed. Itching, pain, redness, and swelling of skin.
4.3	**Indication of immediate medical attention and special treatment needed**	If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately. This mixture may be associated with cardiac sensitization following very high exposures (well above occupational exposure limits) or with concurrent exposure to high stress levels or heart-stimulating substances like epinephrine. Administration of such substances should be avoided. Individuals with pre-existing neurological disease should avoid exposure.

SECTION 5: FIRE-FIGHTING MEASURES

5.1	**Extinguishing Media**	
	Suitable Extinguishing Media	Extinguish with dry chemical, foam, water spray, or carbon dioxide.
	Unsuitable Extinguishing Media	Straight streams of water
5.2	**Special hazards arising from the mixture**	Highly Toxic to aquatic life with long lasting effects. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: carbon oxides; hydrocarbons; nitrogen oxides (NOx); sulphur oxides; hydrogen cyanide (hydrocyanic acid); and metal oxides
5.3	**Advice for fire-fighters**	Evacuate area. If a leak or a spill has not ignited, use water spray to disperse the vapours and to protect personnel attempting to stop a leak. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	**Personal precautions, protective equipment and emergency procedures**	Avoid contact with spilled material. Wear suitable protective equipment. Refer to section 5 for fire-fighting; section 4 for first-aid advice; and section 8 for minimum requirements for personal protective equipment.
6.2	**Environmental precautions**	Do not allow to enter drains, sewers or watercourses.

6.3	**Methods and material for containment and cleaning up**	Eliminate sources of ignition. Shut off leaks if without risk. Adsorb spillages onto sand, earth or any suitable adsorbent material.
6.4	**Reference to other sections**	See 6.1
6.5	**Additional Information**	None

SECTION 7: HANDLING AND STORAGE

7.1	**Precautions for safe handling**	Avoid contact with skin. Avoid breathing fumes. Avoid ingestion. Avoid inhalation of vapours. Use only with adequate ventilation. Keep away from heat and sources of ignition. Keep container tightly closed. Wear protective gloves/clothing and eye/face protection.
7.2	**Conditions for safe storage, including any incompatibilities**	
	Storage Temperature	Ambient
	Storage Pressure	Ambient
	Incompatible materials	Natural rubber; Butyl rubber; EPDM; Polystyrene
7.3	**Specific end use(s)**	Section 1.2 informs about identified end uses.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note:
n- Hexane	110-540-3	20	72	Not available	Not available	EH 40

8.1.2 Biological limit value Not established

8.1.3 PNECs and DNELs

DNEL	Oral	Inhalation	Dermal
Industry - Long Term – Local effects	Not available	Not available	Not available
Industry - Long Term - Systemic effects	Not available	Not available	Not available
Industry - Short term - Local effects	Not available	Not available	Not available
Industry - Short term - Systemic effects	Not available	Not available	Not available
Professional - Long Term - Local effects	Not available	Not available	Not available
Professional - Long Term – Systemic effects	Not available	Not available	Not available
Professional - Short term - Local effects	Not available	Not available	Not available
Professional - Short term - Systemic effects	Not available	Not available	Not available
Consumer - Long Term - Local effects	Not available	Not available	Not available
Consumer - Long Term - Systemic effects	Not available	Not available	Not available
Consumer - Short term - Local effects	Not available	Not available	Not available
Consumer - Short term - Systemic effects	Not available	Not available	Not available

PNEC	
Aquatic Compartment	Not available
Terrestrial Compartment	Not available
Atmospheric Compartment	Not available

8.2 Exposure controls

8.2.1 Appropriate engineering controls

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider: Adequate ventilation so that exposure limits are not exceeded.

8.2.2 Personal protection equipment

Eye/face protection

Wear chemical safety glasses with side shields, or splash-proof goggles to CEN standard EN 166.

Skin protection (Hand protection/ Other)

Any specific glove information provided is based on published literature and glove-manufacturer data. Contact the glove manufacturer for glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. Chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet –style gloves. Nitrile, CEN standards EN 420 and EN 374 provide general requirements and list of glove types.

Respiratory protection

If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements. Types of respirator to be considered for this mixture include: Half-face filter respirator; Type A filter material CEN standards EN136, EN140 and EN 405 provide respirator masks and EN 149 and EN 143 provide filter recommendations.

Specific hygiene measures

Wash thoroughly after handling. When using do not eat, drink or smoke. Routinely wash work clothing and protective equipment. Discard contaminated clothing and footwear that can not be cleaned. Practice good housekeeping.

8.2.3 Environmental Exposure Controls

See sections 6,7,12,13

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid (Viscous)
Colour	Black
Odour	Paraffinic
Odour Threshold (ppm)	No data available
pH (Value)	No data available
Melting Point (°C) / Freezing Point (°C)	No data available
Boiling point/boiling range (°C):	98.3 – 110° C
Flash Point (°C)	-6.7°C (Closed cup)
Evaporation rate	>1 (Butyl Acetate = 1)
Flammability (solid, gas)	No data available
Explosive limit ranges.	1 – 8 %(v)
Vapour Pressure (mm Hg)	14.7 kPa @ 20°C
Vapour Density (Air=1)	>1
Density (g/ml)	0.76 @ 15.5°C
Solubility (Water)	<0.1 g/l
Solubility (Other)	Miscible with hydrocarbon solvents
Partition Coefficient (n-Octanol/water)	ca.4
Auto Ignition Temperature (°C)	350°C (ASTM E-659)
Decomposition Temperature (°C)	No data available

	Viscosity (mPa.s)	No data available
	Explosive properties	No data available
	Oxidising properties	No data available
9.2	**Other information**	

SECTION 10: STABILITY AND REACTIVITY

10.1	**Reactivity**	Stable under normal conditions of use
10.2	**Chemical stability**	Stable under normal conditions
10.3	**Possibility of hazardous reactions**	Not expected
10.4	**Conditions to avoid**	Avoid heat, sparks, open flames and other ignition sources
10.5	**Incompatible materials**	Oxidising agents, acids
10.6	**Hazardous Decomposition Product(s)**	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: carbon oxides; hydrocarbons; nitrogen oxides (NOx); sulphur oxides; hydrogen cyanide (hydrocyanic acid); and metal oxides

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.2 Mixtures

Acute toxicity	Oral toxicity: expected to be of low toxicity: LD50 > 2000mg/kg, Rat Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal. Dermal toxicity: expected to be of low toxicity: LD50 > 2000mg/kg, Rat Inhalation toxicity: expected to be of low toxicity: LC50 > 20mg/l/ 4 hours, Rat. High concentrations may cause CNS depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.
Irritation	Skin irritation: causes skin irritation. Prolonged/repeated contact may cause de-fatting of the skin which can lead to dermatitis. Eye irritation: expected to be non-irritating to eyes. Vapours may be irritating to the eyes. Insufficient to classify. Respiratory irritation: inhalation of vapours or mists may cause irritation to the respiratory system.
Corrosivity	Moderately irritating to skin with prolonged exposure
Sensitisation	May be a respiratory sensitiser
Repeated dose toxicity	Causes damage to organs through prolonged or repeated exposure. Repeated exposure affects the CNS.
Carcinogenicity	No evidence.
Mutagenicity	No evidence.
Toxicity for reproduction	No toxicity to reproduction.

11.2 Other information

Exposure to very high concentrations of similar materials has been associated with irregular heart rhythms and cardiac arrest.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No data is available on the mixture itself. The product contains the following substances which are hazardous for

		the environment: Proprietary and solvent naptha (petroleum) light aliphatic. The acute toxicity of Proprietary is (IUCLID): Toxicity to fish - LC50/96h/rainbow trout = 520 mg/L Toxicity to daphnia - EC50/48h/daphnia = 0.74 mg/L The acute toxicity of Solvent naphtha (petroleum), light aliphatic is (IUCLID): Toxicity to algae - EC50/72h/algae = 4700 mg/L
12.2	**Persistence and degradability**	The mixture itself has not been tested
12.3	**Bioaccumulative potential**	The mixture itself has not been tested
12.4	**Mobility in soil**	The mixture itself has not been tested
12.5	**Results of PBT and vPvB assessment**	The mixture does not contain a substance that is a PBT or a vPvB
12.6	**Other adverse effects**	None

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	**Waste treatment methods**	Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not burn, or use a cutting torch on, the empty drum. Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.
13.2	**Additional Information**	None

SECTION 14: TRANSPORT INFORMATION

14.1 Land transport (ADR/RID)

UN number	UN 1993
Proper Shipping Name	Flammable liquid, N.O.S. (solvent naptha (petroleum) light aliphatic)
Transport hazard class(es)	3
Packing Group	II
Hazard label(s)	
Environmental hazards	Yes
Special precautions for user	F1 – flammable liquids having a flash point of or below 61°C Hazard identification number: 33 – highly flammable liquid (flash point below 23°C)
Additional information	May be shipped as a Limited Quantity when transported in containers no larger than 5.0 L, in combination packaging no larger than 30 kg gross mass. May be shipped as a Limited Quantity when transported in containers no larger than 1.0 L, in shrink-wrapped or stretch-wrapped trays no larger than 20 kg gross mass.

14.2 Sea transport (IMDG)

UN number	UN 1993
Proper Shipping Name	Flammable liquid, N.O.S. (solvent naptha (petroleum) light

		aliphatic)
	Transport hazard class(es)	3
	Packing Group	II
	Marine Pollutant	Yes
	Special precautions for user	F1 – flammable liquids having a flash point of or below 61°C Hazard identification number: 33 – highly flammable liquid (flash point below 23°C
	Additional information	May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass.
14.3	**Air transport (ICAO/IATA)**	
	UN number	UN 1993
	Proper Shipping Name	Flammable liquid, N.O.S. (solvent naptha (petroleum) light aliphatic)
	Transport hazard class(es)	3
	Packing Group	II
	Environmental hazards	Yes
	Special precautions for user	F1 – flammable liquids having a flash point of or below 61°C Hazard identification number: 33 – highly flammable liquid (flash point below 23°C
	Additional information	Refer to the appropriate Packing Instruction, prior to shipping this material. Review all national and operator Variations, prior to shipping this material.
14.4	**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not available

SECTION 15: REGULATORY INFORMATION

15.1	**Safety, health and environmental regulations/legislation specific for the substance or mixture substance or mixture**	1907/2006 – REACH 1272/2008 – CLP 67/548/EEC –DSD 199/45/EC - DPD 2004/42/CE – Limitations on emissions of volatile organic compounds due to the use of organic solvents in vehicle refinishing products
15.1.1	**EU regulations**	
	Authorisations and/or restrictions on use	Refer to EU regulation for details of any actions or restrictions by the above regulations or directives
15.1.2	**National regulations**	Refer to national regulation for details of any actions or restrictions by the above regulations or directives
15.2	**Chemical Safety Assessment**	A Chemical Safety Assessment has not been carried out for this mixture

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent bioaccumulative toxic
vPvB	Very persistent very bioaccumulative

References: Sources of information used in preparing this SDS included one or more of the following: results from in-house or supplier toxicology studies; publications from trade associations; ECHA publications; EU guidelines and other sources as appropriate

Risk Phrases and Safety Phrases

R11: Highly flammable
R22: Harmful if swallowed.
R38: May cause sentitisation by skin contact
R42: May cause sensitization by inhalation.
R43: May cause sentitisation by skin contact
R51/53: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
R65: Harmful: may cause lung damage if swallowed
R67: Vapours may cause drowsiness and dizziness
S7/9: Keep container tightly closed and in a well-ventilated place.
S16: Keep away from sources of ignition - No smoking.
S36/37: Wear suitable protective clothing and gloves.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S60: This material and its container must be disposed of as hazardous waste.
S63: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Hazard statement(s) and Precautionary statement(s)

H225: Highly flammable liquid and vapour.
H302: Harmful if swallowed.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
H336: May cause drowsiness or dizziness.
H411: Toxic to aquatic life with long lasting effects.
H413: May cause long lasting harmful effects to aquatic life.
P101: If medical advice is needed, have product container or label at hand.
P210: Keep away from heat, sparks, open flame, hot surfaces - No smoking
P233: Keep container tightly closed.
P273: Avoid release to the environment.
P281: Use personal protective equipment as required.
P301 + P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
P501: Dispose of contents/container to hazardous waste site

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