


MATERIALS SAFETY DATA SHEET

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PRODUCT		NovaWeld SignFix12 Part B		

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

1.1. Product identifier

Identification of the product : Liquid.
Trade name : **NovaWeld SignFix12 Part B**

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

Use : Industrial.

1.3. Details of the supplier of the safety data sheet

Company identification : Innova Solutions Ltd
Lower Draught Gates Farm
Burnley Road
Trawden
Lancs
BB8 8PW
Tel: +44 (0)1282 867390
5.57.26.15.15

SECTION 2 Hazards identification

Label elements

Risk Phrases : The product may be a skin sensitiser. It may also be a skin irritant and repeated contact may increase this effect.

Hazards identification **Flammable liquid and vapour**
Causes serious eye damage
Causes skin irritation
May cause an allergic skin reaction
Harmful if inhaled
May cause respiratory irritation

Primary route of exposure : Skin and eyes contact.

Symptoms relating to use

- Ingestion : Must not come into contact with food or be consumed.

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : R10
Xn; R20
Xi; R37/38-41
R43

Hazard Class and Category Code(s). Regulation (EC) No 1272/2008 (CLP)


- Health hazards
 - Skin irritation - Category 2 - Warning - (CLP : Skin Irrit. 2) - H315
 - Eye Irritation – Category 2A – Warning – (CLP : Eye Irrit. 2) – H319
 - Skin sensitisation - Category 1 - Warning - (CLP : Skin Sens. 1) - H317
 - Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation - Category 3 - Warning (CLP : STOT SE 3)
- Physical hazards
 - Flammable liquids - Category 3 - Warning - (CLP : Flam. Liq. 3) - H226

Labelling EC 67/548 or EC 1999/45

Symbol(s) : Xi : irritant



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- R Phrase(s)** : R10 : Flammable.
R20 : Harmful by inhalation.
R37/38 : Irritating to respiratory system and skin.
R41 : Risk of serious damage to eyes.
R43 : May cause sensitization by skin contact.
R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S Phrase(s)** : S3 : Keep in a cool place.
S16 : Keep away from sources of ignition - No smoking.
S24 : Avoid contact with skin.
S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S35 : This material and its container must be disposed of in a safe way.
S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.
S43 : In case of fire, use :see Chapter 5.
S51 : Use only in well-ventilated areas.
S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms



- **Hazard pictograms** : SGH02 - SGH07
- **Signal words** : Warning
- **Hazard statements** : H226 - Flammable liquid and vapour
H319 - Causes serious eye irritation
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H335 - May cause respiratory irritation
- **Precautionary statements**
 - Prevention** : Wash hands and affected areas with soap and water
: P280 - Wear protective gloves/protective clothing/eye protection/face protection.
: Do not breathe vapours.
: P210 – keep away from sources of ignition – No smoking
: P337 + P313 – If eye irritation persists, get medical advice

2.2. Other hazards

- Other hazards** : none under normal conditions.

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SECTION 3 Composition/information on ingredients

3.1/3.2. Substance / Preparation

Components : Mixture.

Substance name	Contents	CAS No	EC No	Annex No	Ref REACH	Classification
Methyl methacrylate	: Between 30 and 40 %	80-62-6	201-297-1	607-035-00-6	----	F; R11 Xi; R37/38 R43 Flam. Liq. 2;H225 Skin Irrit. 2;H315 STOT SE3;H335 Skin Sens. 1;H317
2-phenoxyethyl methacrylate	: Between 5 and 15 %	10595-06-9	234-201-1	-----	----	Xi; R36/37/38 Eye Irrit. 2;H319 Skin Irrit. 2;H315 STOT SE3;H335
Cumene hydroperoxide	: < 5	80-15-9	201-254-7	617-002-00-8	----	O; R7 T; R23 Xi; R21/22-48/20/22 C; R34 N; R51-53 Acute Tox. 3 (Inhalation);H331 Skin Corr. 1B;H314 Ox. Liq. 3;H272 Acute Tox. 4 (Dermal);H312 Acute Tox. 4 (Oral);H302 STOT RE 2;H373 Aquatic Chronic 2;H411
Acetyl-2-Thioures	: < 2.5	591-08-2	209-699-9	-----	----	T; R25 Undefined

SECTION 4 First aid measures

4.1. Description of first aid measures

- General information : Take off immediately all contaminated clothing.

First aid measures

Inhalation : Remove victim to fresh air. Assure fresh air breathing.
If breathing is difficult, give oxygen.
Obtain medical attention.

Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Eye contact : Ensure adequate flushing of eyes by separating eyelids with the fingers. Obtain medical attention if pain, blinking, tears or redness persist.
IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists : Get medical advice.

Ingestion : Rinse mouth. Do not induce vomiting. Seek medical attention if ill effect develops.

4.2. Most important symptoms and effects, both acute and delayed

Skin and eyes irritant.

Skin contact : May cause sensitization by skin contact.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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SECTION 5 Firefighting measures

5.1. Extinguishing media

- Extinguishing media** : Dry powder. Water fog. Carbon dioxide (CO₂). Foam.
- Unsuitable extinguishing media** : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Specific hazards** : May form flammable vapour-air mixture.
- Hazardous combustion products** : Toxic gases. (CO_x)-(NO_x)

5.3. Advice for firefighters

- Flammable class** : Highly flammable liquid and vapour
- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.
- Prevention** : Avoid (reject) fire-fighting water to enter environment. Keep away from sources of ignition. No smoking.
- Special procedures** : Exercise caution when fighting any chemical fire.
- Surrounding fires** : Use water spray or fog for cooling exposed containers.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- For emergency responders** : In case of insufficient ventilation, wear suitable respiratory equipment. Keep public away from danger area. Equip cleanup crew with proper protection.
Do not get in eyes, on skin, or on clothing
- Personal precautions** : Keep away from ignition sources such as heat, sparks and open flame. – No smoking.

6.2. Environmental precautions

- Environmental precautions** : Spread coarse, inert granular cover such as sand, on any affected walking surface. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Clean up methods** : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.
Incinerate.

6.4. Reference to other sections

See Heading 8.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

- Handling** : Local exhaust and general room ventilation are both essential to prevent accumulation of flammable vapour or dust mixtures. Do not breathe vapours. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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Technical protective measures : Use grounded electrical/mechanical equipment.

General : Keep away from sources of ignition. No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep container tightly closed and protected from light
 Keep away from food, drink and animal feeding stuffs.
 Keep container tightly closed and at a temperature not exceeding . 20°C
 Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Store in tightly closed, properly ventilated containers away from heat, sparks, open flame.
 Keep away from combustible material.

Precautions in handling and storage : Good ventilation of the workplace required.

7.3. Specific end use(s)

Not applicable.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Methyl methacrylate : VME - France [ppm] : 100
 Methyl methacrylate : VME - France [mg/m³] : 410
 Methyl methacrylate : VLE - France [ppm] : 200
 Methyl methacrylate : VLE - France [mg/m³] : 820
 Methyl methacrylate : TLV® -STEL [ppm] : 100
 Methyl methacrylate : TLV® -TWA [ppm] : 50

8.2. Exposure controls

- **Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment. ABEK (EN14387)

- **Hand protection** : For prolonged contact, use nitrile or neoprene gloves or other material resistant to petroleum oils. (EN374)

- **Skin protection** : Wear impervious rubber safety shoes.
 Wear suitable protective clothing.

- **Eye protection** : Chemical goggles or safety glasses. EN166

- **Ingestion** : When using, do not eat, drink or smoke.

Industrial hygiene : Do not breathe vapours.
 Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
 Provide good ventilation in process area to prevent formation of vapour.
 Do not get in eyes, on skin, or on clothing

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1.a. Appearance

Physical state at 20 °C : Viscous liquid.
Colour : Colourless.

9.1.b. Odour

Odour : Ester.

9.1.d. pH

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9.1.f. Initial boiling point - boiling range

Boiling point [°C] : 100
Final boiling point [°C] : No data available.

9.1.g. Flash point

Flash point [°C] : 30
Flammability range [vol% in air] : Highly flammable liquid and vapour

9.1.k. Vapour pressure

Vapour pressure, 50°C : No data available.

9.1.m. Relative density

Density : 0.9-1.1

9.1.n. Solubility

Solubility in water : No data available.

9.1.o. Partition coefficient : n-octanol / water

Log P octanol / water at 20°C : No data available.

9.1.p. Auto-ignition temperature

Auto-ignition temperature [°C] : 421°C

9.1.q. Thermal decomposition

9.1.r. Viscosity

Viscosity at 20°C [mPa.s] : 7500

9.1.s. Explosive Properties

Explosion limits : Can form explosive mixture with air.
Explosion limits - lower [%] : No data available.
Explosion limits - upper [%] : No data available.

9.1.t. Oxidising properties

9.2. Other information

Acid/alkali reserve [g NaOH/100g] : No data available.
Critical temperature [°C] : No data available.

SECTION 10 Stability and reactivity

10.1. Reactivity

Reactivity : Can form explosive mixture with air.
Highly flammable liquid and vapour

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Methyl methacrylate: Can form explosive mixture with air.
Flammable vapours heavier than air/can accumulate.

10.4. Conditions to avoid

Conditions to avoid : Keep away from ignition sources such as heat, sparks and open flame. – No smoking.
Keep container tightly closed and at a temperature not exceeding . 20°C Sparks.
Overheating.
Protect from sunlight

10.5. Incompatible materials

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Materials to avoid : Amines
Peroxides.
Strong oxidizers.
Strong acids.
Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : According to process conditions, hazardous decomposition products maybe generated
High temperature may liberate (NOx) (COx)

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Toxicity information : methyl methacrylate (cas 80-62-6) Exposure to high concentrations may result in pulmonary oedema and paralysis.

- **Acute toxicity** : Rat oral LD50 [mg/kg] 7872 [MMA-80-62-6]
- **Skin corrosion/irritation** : Rabbit dermal LD50 [mg/kg] >5000 [MMA 80-62-6]
- **Serious eye damage/irritation** : No data available.
- Rat inhalation LC50 [mg/l/4h]** : 4632
- **Respiratory or skin sensitisation** : No data available.
- **Germ cell mutagenicity** : No data available.
- **Carcinogenicity** : No data available.
- **Reproductive toxicity** : No data available.
- **STOT-single exposure** : No data available.
- **STOT-repeated exposure** : No data available.
- Rabbit dermal LD50 [mg/kg]** : >5000
- **Aspiration hazard** : No data available.
- **Ocular** : Eye irritation.
- Rat oral LD50 [mg/kg]**

Symptoms related to the physical, chemical and toxicological characteristics

Undesirable human health effects : Repeated or prolonged skin contact may cause irritation.
Exposure may produce cough, mucous, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction.
Sensitisation : contact can provoke allergic reactions in humans

SECTION 12 Ecological information

12.1. Toxicity

Ecological effects information
LC50-96 Hour - fish [mg/l] : 243
48 Hour-EC50 - Daphnia magna [mg/l] : 69

12.2. Persistence and degradability

Persistence - degradability : No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential : Log P octanol / water at 20°C :0.7 [cas 80-62-6]

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

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12.6. Other adverse effects

Environmental precautions : Prevent entry to sewers and public waters.

SECTION 13 Disposal considerations

13.1. Waste treatment methods

Dispose in a safe manner in accordance with local/national regulations.

General : Dispose of this material and its container at hazardous or special waste collection point. Dispose in a safe manner in accordance with local/national regulations.

Disposal method : Dispose of contents and/or container in accordance with local, regional, national and/or international regulation.
Incineration is recommended

SECTION 14 Transport information

General information

14.1. UN number

UN No. : 1133

H.I. nr : 30

19 Labelling ADR



: 3: Flammable liquids

Labelling



14.2. UN proper shipping name

Proper shipping name : UN1133 ADHÉSIFS, 3, III, (D/E)

: ADHESIVES

Land transport

Air transport

- Proper shipping name : ADHESIVES

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14.3. Transport hazard class(es)

3

- ADR Class : 3

14.4. Packing group

III

- ADR Packing group : III
E

- IMO Packing group : III

- IATA Packing group : III

14.5. Environmental hazards

- IMO-IMDG code : Class : 3

- IMDG-Marine pollution : No

14.6. Special precautions for user

Handling and storage of this material do not require special precaution.

- Emergency Schedule (EmS) - Fire : F-E S-D

Emergency action in case of accident : No naked lights. No smoking.
Keep public away from danger area.
NOTIFY POLICE AND FIRE BRIGADE IMMEDIATELY.

SECTION 14 Transport information (continued)

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- ICAO/IATA : Packaging instructions cargo : 366
Packaging instructions passenger: 355

Personal precautions : The driver shall not attempt to deal with any fire of the load.

In case of spillage and/or leakage : Clean up even minor leaks or spills if possible without unnecessary risk.

Additional information : None.

Sea transport

SECTION 15 Regulatory information

Pictograms (Precautionary statements)


• Health hazards : Skin irritation - Category 2 - Warning - (CLP : Skin Irrit. 2) - H315
Eye Irritation – Category 2A – Warning – (CLP : Eye Irrit. 2) – H319
Skin sensitisation - Category 1 - Warning - (CLP : Skin Sens. 1) - H317
Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation - Category 3 - Warning (CLP : STOT SE 3)

EC Labelling

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

Physical hazards : Flammable liquids - Category 3 - Warning - (CLP : Flam. Liq. 3) - H226

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15.2. Chemical safety assessment

• Hazard pictograms



Signal words

No data available.

EC Classification

67/548/EC & 1999/45/EC

Warning

: R10
Xn; R20
Xi; R37/38-41
R43

Hazard statements

: Flammable liquid and vapour
Causes serious eye irritation
Causes skin irritation
May cause an allergic skin reaction
May cause respiratory irritation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006.

Directive 2006/121/EC of the European Parliament and of the Council of 18 December 2006.

• Precautionary statements

Symbol(s)



: Xi : Irritant

R Phrase(s)

: R10 : Flammable.
R20 : Harmful by inhalation.
R37/38 : Irritating to respiratory system and skin.
R41 : Risk of serious damage to eyes.
R43 : May cause sensitization by skin contact.
R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

• Prevention

: Wear protective gloves/protective clothing/eye protection/face protection.
Keep away from sources of ignition - No smoking.
Avoid inhalation of vapours and fumes.
Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

S Phrase(s)

: S3 : Keep in a cool place.
S16 : Keep away from sources of ignition - No smoking.
S24 : Avoid contact with skin.
S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S35 : This material and its container must be disposed of in a safe way.
S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.
S43 : In case of fire, use :see Chapter 5.
S51 : Use only in well-ventilated areas.
S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

CLP classification

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification,

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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

• Pictograms (Precautionary statements)



Hazard Class and Category Code
REGULATION (EC) No 1272/2008 (CLP)

Special labelling

: • Contains Methyl methacrylate - 2-Phenoxyethyl methacrylate.

SECTION 16 Other information

List of relevant R phrases (§ 3)

R11 : Highly flammable.
R21/22 : Harmful in contact with skin and if swallowed.
R25 : Toxic if swallowed
R35 ; Causes sever burns
R36/37/38 : Irritating to eyes, respiratory system and skin.
R37 : Irritating to respiratory system.
R37/38 : Irritating to respiratory system and skin.
R43 : May cause sensitization by skin contact.