

SDS Ref: 01 Revision 3 Revision Date: 25.04.2018

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

1.1. Product identifier

Product name FIRMAHOLD FRAMING NAILER FUEL CELL 80ml

Additional identification: CFC

Identification of the product:see section 3Index Number:Not availableREACH pre-registration No.:see section 3

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

1.2.1 Identified uses:

Combustion.

1.2.2 Uses advised against:

Not available.

1.3. Details of the supplier of the safety data sheet

Supplier T.I. Midwood & Co. Ltd

TIMco House Green Lane Wardle Nantwich CW5 6BJ 01829 261111

1.4. Emergency telephone number

01829 261 111 (Office hours only)

Mon - Fri: 08:30 - 17:00

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1 Classification

The substance is classified as following according to REGULATION (EC) No 1272/2008:

Hazard classes/Hazard categories Hazard statement codes

Flam. Gas 1 H220 Press. Gas H280

For full text of H- phrases: see section 2.2.

2.2. Label elements

Hazard Pictograms:



Signal Word

Danger

Hazard Statements

H220:

Extremely flammable gas.

H280:

Contains gas under pressure; may explode if heated.

Precautionary Statements

P210:

Keep away from heat/sparks/open flames/hot surfaces. —

No smoking.

P377:

Leaking gas fire: Do not extinguish, unless leak can be stopped

safely.

P381: P410 + P403: Eliminate all ignition sources if safe to do so.

Protect from sunlight. Store in a well-ventilated place.

2.3. Other hazards

Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

BUTANE		20-60%
CAS-No.: 106-97-8	EC No.: 203-448-7	05-2114131909-43-0000
ISOBUTANE		20-35%
CAS-No.: 75-28-5	EC No.: 200-857-2	05-2118669741-32-0000
PROPANE		20-45%
CAS-No.: 74-98-6	EC No.: 200-827-9	05-2114131905-51-0000

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician if

you feel unwell.

4.1.2 In case of skin contact:

Take off contaminated clothing and shoes. Wash off with soap and plenty of water. If skin irritation or rash

occurs: Get medical advice/attention.

4.1.3 In case of eyes contact:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Consult a physician if you feel unwell.

4.1.4 In case of ingestion:

Wash out mouth with water, induce vomiting unless directed to do so by medical personnel. Consult a

physician if you feel unwell.

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

The product is not classified as harmful to human health effect.

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

If skin irritation or rash occurs, get medical advice/attention.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media Water spray, foam, carbon dioxide, dry powder.

Unsuitable extinguishing media Not available.

5.2. Special hazards arising from the substance or mixture

This material is flammable. In case of fire, the following can be release: Oxides of carbon and water.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand.

MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation. If insufficient ventilation, wear suitable

respiratory equipment. Avoid inhalation of gas.

6.1.2 For emergency responders: Wear an appropriate NIOSH/MSHA approved respirator If leaks.

6.2. Environmental precautions

Do not discharge into sewage / drainage system.

6.3. Methods and material for containment and cleaning up

Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate danger area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant. Water spray may be useful in minimizing or dispersing vapors.

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 information on disposal.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1 Protective measures:

Avoid breathing vapors or spray mists. Avoid contact with skin and eyes. Contents under pressure. The

use of explosion-proof electrical equipment is recommended and may be required.

The use of appropriate respiratory protection is advised when concentrations exceed any established

exposure limits.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and

protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store in cool, dry, well-ventilated area

away from heavily trafficked areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 30°C. Cylinders should be stored upright and firmly secured to prevent falling or

being knocked over. Full and empty cylinders should be segregated.

7.3. Specific end use(s)

Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1 Occupational exposure limits:

Name	CAS No.	OEL Value - 8 Hrs		OEL Value - 15 Min		Notes
BUTANE	106-97-8	600 ppm	1430 mg/m3	750 ppm	1780 mg/m3	
PROPANE	74-98-6	-	-	-	-	Asphx.

OEL = Occupational Exposure Limit

8.1.2 Additional exposure limits under the conditions of use:

Not available.

8.1.3 DNEL/DMEL and PNEC-Values:

Not available.

8.2. Exposure controls

8.2.1Appropriate engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the

established exposure limits, additional engineering controls may be required. Where explosive mixtures

may be present, electrical systems safe for such locations must be used.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear safety goggles.

Hand protection: Wear safety gloves to prevent any possibility of liquid contact and

repeated or prolonged vapor contact.

Body protection: Protective clothing to prevent any possibility of liquid contact

and repeated or prolonged vapor contact.

Respiratory protection: In case of brief exposure or low pollution, use respiratory filter

device. In case of intensive or longer exposure, use self-contained

respiratory protective device.

Thermal hazards: Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls: Avoid discharge into the environment.

According to local regulations, Federal and official regulations.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Gaseous
Colour: Colourless
Odour: Odorless
Odour threshold: Not available
pH: Not available
Melting point/range (°C): -160 °C /-187.1 °C
Boiling point/range (°C): -11.7 °C /- 42.1 °C

-60 °C /-140 °C Flash point (°C): Evaporation rate: Not available Flammability limit - lower (%): Not available Not available Flammability (solid, gas): Ignition temperature (°C): Not available Upper/lower flammability/explosive limits: 9.5/ 1.8 Vapour pressure: 11.8bar/50°C Vapour density: Not available Density: 1.56 / 2.01 Not available Bulk density (kg/m3): Water solubility (g/l): Slightly soluble n-Octanol/Water (log Po/w): Not available Auto-ignition temperature: Not available Not available Decomposition temperature: Viscosity, dynamic (mPa.s): Not available Explosive properties: Not available Not available Oxidising properties: Not available Molecular Formula: Not available Molecular Weight:

9.2. Other information

Fat solubility(solvent- oil to be specified) etc:

Soluble in alcohol, ether.

Surface tension:

Dissociation constant in water(pKa):

Oxidation-reduction Potential:

Not available

Not available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The substance is stable under normal storage and handling conditions.

10.2. Chemical stability

Stable at room temperature in closed containers under normal storage and handling conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

Incompatible materials. Avoid high temperatures. Avoid all possible sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

Not available LD50(Oral, Rat): LD50(Dermal, Rabbit): Not available LC50(Inhalation, Rat): Not available Not classified Skin corrosion/Irritation: Serious eye damage/irritation: Not classified Not classified Respiratory or skin sensitization: Not classified Germ cell mutagenicity: Carcinogenicity: Not classified Reproductive toxicity: Not classified Not classified STOT- single exposure: STOT-repeated exposure: Not classified Aspiration hazard: Not classified

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	n/a	96h	Fish	OECD 203	n/a	n/a
EC50	n/a	48h	Daphnia	OECD 202	n/a	n/a
EC50	n/a	72h	Algae	OECD 201	n/a	n/a

12.2. Persistence and degradabilityNot available12.3. Bioaccumulative potentialNot available12.4. Mobility in soilNot available12.5. Results of PBT and vPvB assessmentNot available12.6. Other adverse effectsNot available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

SECTION 14: TRANSPORT INFORMATION

	Land transport(ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	1950	1950	1950
UN Proper shipping name	Aerosols	Aerosols	Aerosols
Transport hazard Class	2.1	2.1	2.1
Packaging group	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL and the IBC Code	Not regulated	Not regulated	Not regulated

SECTION 15: REGULATORY INFORMATION

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

Relevant information regarding authorization:

Relevant information regarding restriction:

Not applicable.

Not applicable.

Other EU regulations: Employment restrictions concerning young person must be

observed. For use only by technically qualified individuals.

Not applicable

15.2. Chemical Safety Assessment

Chemical Safety Assessment has been carried out?

SECTION 16: OTHER INFORMATION

16.1 Indication of changes:

Other National regulations:

Version 1.0 Amended by EU No 2015/830

16.2 Training instructions:

Not applicable.

16.3 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.4 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.