

Safety data sheet

according to Regulation (EC) No 1907/2006 (REACH)



Trade name: 2 Fuel Cells for Gas Nailers 80 ml / 30 ml

HiKOKI no.: 753600, 753702

Version / Language: 1.0/EN

Site 1 from 16

Date: 15.01.2026

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

1.1: Product identifier

Product form:	Mixture
Trade name:	2 Fuel Cells for Gas Nailers 80 ml / 30 ml
Unique Formula Identifier – UFI:	-
Product type:	Gas canister

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

Relevant identified uses

Professional or industrial use.

Uses advised against

Do not use for products which come into contact with food items. Do not use for private purposes or in the household.

1.3: Details of the supplier providing the safety data sheet

Manufacturer:

Koki Holdings Co. Ltd.
Shinagawa Intercity Tower A, 15-1
Konan 2-chome, Minato-ku, Tokyo, Japan

EU-Importer:

Koki Holdings Europe GmbH
Metabo-Allee 1
72622 Nürtingen, Germany

Phone: +49 (0) 7022 - 72 0
Fax: +49 (0) 7022 - 72 2595
Web: <https://www.hikoki-powertools.eu>
E-mail: info@hikoki-powertools.eu

1.4: Emergency number

GBK GmbH (24 h): +49 (0) 6132-84463

SECTION 2: Possible dangers

2.1: Classification of the substance or mixture

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Classification according to Regulation (EC) No 1272/2008 [CLP]

Aerosols, category 1; Hazardous to the aquatic environment - chronic, category 3.

Other information

Full text of hazard statements and EU hazard statements in SECTION 16.

2.2: Labelling elements

Hazard pictogram:



Signal word: Danger

Hazard statements (H-phrases):

- | | |
|------|---|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurized container: May burst if heated. |
| H412 | Harmful to aquatic life with long lasting effects |

Precautionary statements (P-phrases):

- | | |
|------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source. |
| P251 | Do not pierce or burn, even after use. |
| P273 | Avoid release to the environment. |
| P410 | Protect from sunlight. |
| P412 | Do not expose to temperatures exceeding 50 °C/122 °F. |
| P501 | Dispose of contents/container to industrial combustion plant. |

Other information

Full text of hazard statements and EU hazard statements in SECTION 16.

2.3: Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Although this product is not subject to labelling, we recommend that the safety advice be followed.

SECTION 3: Composition / information on ingredients

3.1: Substances

Not applicable

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3.2: Mixtures

Composition / information on ingredients

Substance name	Product identifier	Concentration [%]	Classification according to Regulation (EC) Nr. 1272/2008 [CLP]	SCL, ATE (oral, dermal, inhalative), M-factor (acute, chronic)
Hydrocarbons, C3	EC No. 271-735-4 Reach No. 01-2119521732-46-xxxx CAS No. 68606-26-8	≥ 90	Flam. Gas 1 (H220); Press. Gas L (H280)	
Poly[oxy(methyl-1,2-ethanediyl)], α-butyl-ω-hydroxy	EC No. 500-003-1 Reach No. 01-2119492302-43-xxxx CAS No. 9003-13-8	1 - < 5	Acute Tox. 4 (H302); Skin Irrit. 2 (H315); Eye Irrit. 2 (H319)	

3.3: Additional hints

Occupational exposure limits, where available, are given in section 8.

This mixture does not contain any substances in nanoform or registered as such.

SECTION 4: First aid measures

4.1: Description of first aid measures

General notes

Do not leave the affected person unattended. Immediately move the affected person away from the hazardous area and take off all contaminated clothing. Keep affected person warm, still and covered. In case of unconsciousness place person in the recovery position. Never give anything by mouth. In case of any doubts or symptoms immediately seek medical assistance.

After inhalation

In case of laboured or interrupted breathing immediately seek medical assistance. Provide fresh air and start first aid measures.

After skin contact

Wash the affected area thoroughly with water and soap.

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After eye contact

Take out contact lenses. Thoroughly wash the open eye with water for at least 10 minutes, holding the eyelids apart.

After ingestion

If the affected person is conscious, wash the mouth thoroughly with water. Do not induce vomiting.

Protection of the first aider

Avoid all dangerous contact with the substance and take all usual precautions.

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

No further information.

4.3: Indications of immediate medical assistance or specialised treatment

Notes for the doctor

No further information.

Specialized treatment

No further information.

SECTION 5: Fire fighting measures

5.1: Extinguishing agent

Suitable extinguishing agents

Water spray, BC-powder

Unsuitable extinguishing agents

Water jet.

5.2: Special hazards arising from the substance or mixture

Hazards arising from the substance or mixture

No further information.

Hazardous combustion products

Nitrogen oxides (NO_x)

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5.3: Advice for firefighting

In case of fire and/or explosion do not breathe fumes.

Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighting

No further information.

SECTION 6: Accidental release measures

6.1: Personal precautions, protective equipment and emergency procedures

Remove non-emergency personnel to safety. Emergency responders should wear breathing apparatus if exposed to vapour/dust/spray/gases

6.2: Environmental protection measures

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3: Methods and material for retention and cleaning

Cover all drains. Place in appropriate containers for disposal. Ventilate affected area.

6.4: Reference to other sections

For further information on disposal, see section 13.

SECTION 7: Handling and storage

7.1: Protective measures for safe handling

Measures to prevent fires

Use local and general ventilation. Use only in well-ventilated areas.

Measures to prevent aerosol and dust formation

No further information.

Measures to protect the environment

No further information.

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Advice on general hygiene in the workplace

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal foods.

7.2: Conditions for safe storage considering incompatibilities

Technical measures and storage conditions

Do not spray on an open flame or other ignition source. Protect from sunlight.

Packaging materials

Only packagings which are approved (e.g. acc. to ADR) may be used.

Requirements for storage rooms and containers

No further information.

Instructions on storage compatibility

Storage class: 2B

Substances to avoid: Observe hints for combined storage.

Further information on storage conditions

No further information.

7.3: Specific end uses

Recommendations

No further information.

Specific solutions for the industrial sector (industry solutions where applicable):

No further information.

SECTION 8: Exposure controls / Personal protective equipment

The information in this section contains general advice and guidance. Information provided is based on typical anticipated uses of the product. Additional measures may be required for handling large quantities or other uses that may significantly increase worker exposure or release into the environment.

8.1: Parameters to be monitored

DNEL values

CAS: 68606-26-8

Dermal Long-term, systemic

23.4 mg/kg bw/day (worker)

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CAS: 9003-13-8

Dermal Long-term, systemic

0.83 mg/kg bw/day (worker)

Inhalation Long-term, systemic

2.9 mg/m³ (worker)

PNEC values

CAS: 9003-13-8

PNEC – freshwater

3.33 mg/L (aquatic organisms,
intermittent release)

PNEC – sewage treatment plant (STP)

100 mg/L (aquatic organisms, single instance)

Additional notes:

The lists valid at the time of compilation served as a basis.

8.2: Exposure controls and monitoring

Suitable technical control devices

General ventilation.

Individual protective measures, for example personal protective equipment

Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

General protective and hygienic measures

The usual precautions when managing chemicals must be observed.

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Keep away from food, drink and animal feed.

Wash hands before breaks and after work.

Do not inhale gases, vapours, aerosols.

When using do not eat, drink or smoke.

Hand protection



Under normal conditions of use specific gloves are not required. Wear appropriate gloves in case of frequent or prolonged use and in case of large-scale exposure.

Body protection

Impermeable protective clothing and non-slippery shoes are recommended.

Eye and face protection



Suitable eye protection: Use appropriate safety glasses.

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Breathing protection

Take usual precautions when managing chemicals. In case of inadequate ventilation wear respiratory protection.

Thermal protection

Take usual precautions when managing chemicals.

Further protective measures:

No further information.

Environmental exposure controls

Use a suitable container to prevent environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1: Information on the basic physical and chemical properties

Physical state:	aerosol
Colour:	different
Odour:	characteristic
pH value:	Not available
Melting point and melting range:	-187.6°C at 1,013 hPa
Initial boiling point and boiling range:	-161.5°C at 1,013 hPa
Flammability:	Flammable aerosol in accordance with GHS criteria
Lower and upper explosion limit [% in air]:	5 - 15
Flash point:	Not available
Decomposition temperature:	Not available
Auto ignition temperature:	350 °C
Vapour pressure at 20°C:	59.89 PSI
Relative vapour density:	Not available
Relative density at 20°C:	Not available
Solubility(ies):	Not available
Partition coefficient n-octanol/water:	Not available
Kinematic viscosity at 40 °C:	Not available
Evaporation number:	Not available
Explosive Properties:	Not available
Oxidising Properties:	Not available

9.2: Other information

No further information.

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SECTION 10: Stability and reactivity

10.1: Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".
The mixture contains reactive substance(s): risk of ignition

10.2: Chemical stability

See below "Conditions to avoid".

10.3: Possibility of hazardous reactions

No known hazardous reactions.

10.4: Conditions to avoid

Do not spray on an open flame or other ignition source. - Keep away from heat. Protect from sunlight or strong shocks.

10.5: Incompatible materials

Avoid oxidisers.

10.6: Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spillage and heating are not known.

SECTION 11: Toxicological information

11.1: Information on hazard classes according to Regulation (EC) No. 1272/2008

Test data are not available for the complete mixture. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Acute toxicity

Based on available data, the classification criteria are not met.

Relevant values for classification

CAS: 9003-13-8

Oral:	ATE	500 mg/kg
Dermal:	ATE	2,000 mg/kg

Corrosive/irritant effect on the skin

Not classified

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Severe eye damage / irritation

Not classified

Sensitisation of the respiratory tract / skin

Not classified

Germ cell mutagenicity

Not classified

Carcinogenicity

Not classified

Reproductive toxicity

Not classified

Specific target organ toxicity in case of single exposure

Not classified

Specific target organ toxicity in case of repeated exposure

Not classified

Aspiration hazard

Not classified

Information on other hazards

No further information.

SECTION 12: Environmental information

12.1: Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity:

CAS: 68606-26-8

LC50 49.47 mg/l/96h (fish)

EC50 12.32 mg/l/96h (algae)

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CAS: 9003-13-8

LC50 564 mg/l/96h (fish)
EC50 < 320 mg/l/96h (fish)
EL50 > 100 mg/l/48h (aquatic invertebrates)
EL50 358 mg/l/24h (algae)
EC50 > 100 mg/l/10min (micro-organisms)

12.2: Persistence and degradability

No further information.

12.3: Bioaccumulative potential

CAS: 68606-26-8

Partition coefficient: 1.09 [20°C] (log Kow) (pH value: 7)

CAS: 9003-13-8

Partition coefficient: > 1.18 - < 4.37 [28°C] (log Kow)

12.4: Mobility in soil

No further information.

12.5: Result of the PBT and vPvB assessment

Not applicable.

12.6: Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties.

12.7: Other adverse effects

No further information.

SECTION 13: Disposal considerations

The information in this section provides general advice and guidance. The list of identified uses in section 1 should be consulted for any application-specific information in the exposure scenarios.

13.1: Waste treatment process

General recommendation:

Must be given special treatment in compliance with official regulations.

Must not be disposed of together with household waste. Do not allow to enter drains.

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Uncleaned packaging:

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1: UN-Number or ID-Number

1950

14.2: Proper UN-shipping name

AEROSOLS

14.3: Transport hazard classes

ADR:

Class: 2
Classification code: 5F
Packaging group: -
Danger label: 2.1
Special provisions: 190, 327, 344, 625
Excepted quantities: E0
Limited quantities: 1 L
Transport category: 2
Tunnel restriction code: D



IMDG:

Class: 2.1
Danger label: 2.1
Special provisions: 63, 190, 277, 327, 344, 959
Excepted quantities: E0
Limited quantities: 1 L
EmS (fire / spill): F - D / S - U

IATA:

Class: 2.1
Special provisions: A145, A167
Excepted quantities: E0
Limited quantities: 30kg

14.4: Packaging group

Not assigned to a packing group.

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14.5: Environmental hazards

Indicator of environmentally hazardous substances

ADR/RID/IMGD-Code No

ICAO-TI/IATA-DGR No

14.6: Special precautions for the user

No further information.

14.7: Carriage in bulk by sea in accordance with IMO instruments

The cargo is not intended to be carried in bulk.

SECTION 15: Legislation

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

CLP Regulation (EC) No 1272/2008

Extremely flammable. Pressurized container: may burst if heated. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122 °F.

REACH Regulation (EC) No 1907/2006

This product fulfils all relevant regulatory requirements.

Aerosol Dispenser Directive 75/324/EEC

This product fulfils all relevant regulatory requirements.

RoHS Directive (2011/65/EU)

None of the substances included.

Seveso III Directive (2012/18/EU)

None of the substances included.

PIC Regulation (EU) No 649/2012

None of the substances included.

POP Regulation (EU) 2019/1021

None of the substances included.

Ozone Regulation (EC) No 1005/2009

None of the substances included.

Dual-Use Regulation (EU) 2021/821

None of the substances included.

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VOC Directive 2010/75/EU

VOC content: > 90%

(calculated based on hydrocarbons and organic propellants)

Explosive Precursor Regulation (EU) 2019/1148

None of the substances included.

Drug Precursors Regulation (EC) No 273/2004

None of the substances included.

Storage class (TRGS 510)

LGK 2B

Water hazard class

WGK 1 - Self-classification according to AwSV

15.2: Chemical safety assessment

A chemical safety assessment has not been conducted.

SECTION 16: Other notes

The information is based on the present state of our knowledge but does not represent any assurance of product properties and does not establish a contractual legal relationship. The classification of the mixture was made by calculation according to the rules of Annex I in Directive 1272/2008/EU.

16.1: Notes on changes

None.

16.2: Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CAS no.	Chemical Abstract Service - Number
CLP	Regulation on classification, labelling and packaging [Regulation (EC) No 1272/2008].
DMEL	Derived exposure level with minimal impairment
DNEL	Derived exposure level without impairment
EC50/EC100	Effective Concentration, resulting in 50/100% of organisms exhibiting a defined effect
EC no.	European Community Number

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EN	European Standard
EUH phrase	CLP-specific hazard statement
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
H phrase	Standardised hazard statement according to CLP/GHS
IARC	International Agency for Cancer Research
IATA	Association for International Air Transport
ICAO-TI	Technical instructions and guidelines by the International Civil Aviation Organisation
IMDG	Dangerous goods regulations for international maritime transport
LC/LD	Lethal concentration/dose, resulting in the death of a specified percentage of organisms
LOEC/LOEL	Lowest observed effect concentration/level, resulting in a measurable effect
M-factor	Multiplier used for environmental hazard classification
NOAEC/NOAEL	No observed adverse effect concentration/level
NOEC/NOEL	No observed effect concentration/level
OECD	Organization for Economic Co-operation and Development
OEL	Occupational exposure limit
P phrase	Standardized precautionary statement according to CLP/GHS
PBT	Persistent, bioaccumulate and toxic substance
PNEC	Estimated non-effect concentration
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
SCL	Specific Concentration Limit
SDS	Safety data sheet
STEL	Short-term exposure limit
TRGS	Technical rules for hazardous substances
TAW	Time weighted average
RID	Regulations concerning the international carriage of dangerous goods by rail
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative

16.3: Important literature references and data sources

No further information.

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16.4: Classification of mixtures and assessment method used according to Regulation (EC) No. 1272/2008 [CLP]

No further information.

16.5: Wording of H and EUH phrases (number and full text)

H220	Extremely flammable
H222	Extremely flammable aerosol
H229	Pressurized container: may burst if heated
H280	Contains gas under pressure; may explode if heated
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H412	Harmful to aquatic life with long lasting effects

16.6: Full text of the classifications [CLP/GHS]

Aerosol 1:	Aerosols, category 1
Aquatic Chronic 3:	Hazardous to the aquatic environment - chronic, category 3
Flam. Gas 1:	Flammable gas, category 1
Press. Gas L:	Gases under pressure: Liquefied gas
Acute Tox. 4:	Acute toxicity, category 4
Skin Irrit. 2:	Skin irritation, category 2
Eye Irrit. 2:	Eye irritation, category 2

16.7: Training advice

No further information.

16.8: Additional information

No further information.

Note for the reader:

To the best of our knowledge, the information contained here is correct. However, neither the above-named manufacturer nor its affiliates assume any liability as to the accuracy or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described here, we cannot guarantee that these are the only possible risks.