

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

1.1. Product identifier

Product form : Mixture
Product name : TIMCO Firmahold Finishing Nailer Fuel Cell
UFI : 11DT-720C-1101-4NNJ
Product code : BFC

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

Relevant identified uses

Use of the substance/mixture : combustion

1.3. Details of the supplier of the safety data sheet

United Kingdom Supplier:

TIMCO House
Green Lane
Wardle
Nantwich
CW5 6BJ

EU Supplier:

TIMCO
Old Train Station
North Road
Monaghan
H18 YK54

1.4. Emergency telephone number

Emergency number : +44 (0)1865 407 333 – English speaking (24 hours, 7 days)

Country/Area	Organisation	Emergency number
Ireland	National Poisons Information Centre. Beaumont Hospital. PO Box 1297. Beaumont Road 9 Dublin.	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Gas 1 H220
Press. Gas (Comp.) H280
Full text of hazard classes, H- and EUH-statements: see section 16

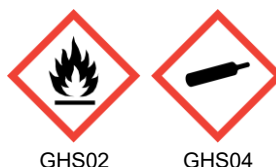
Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



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Signal word (CLP)	: Danger
Hazard statements (CLP)	: H220 - Extremely flammable gas. H280 - Contains gas under pressure; may explode if heated.
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely. P381 - In case of leakage, eliminate all ignition sources. P403 - Store in a well-ventilated place. P410+P403 - Protect from sunlight. Store in a well-ventilated place.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Isobutane (Note C)(Note U)	CAS-No.: 75-28-5 EC-No.: 200-857-2 EC index No.: 601-004-00-0	15 – 60	Flam. Gas 1A, H220 Press. Gas (Liq.), H280
Propene (Note U)	CAS-No.: 115-07-1 EC-No.: 204-062-1 EC index No.: 601-011-00-9 REACH-no: 01-2119447103-50-XXXX	40 – 60	Flam. Gas 1A, H220 Press. Gas (Liq.), H280
Propane (Note U)	CAS-No.: 74-98-6 EC-No.: 200-827-9	0 – 15	Flam. Gas 1A, H220 Press. Gas (Liq.), H280
Butane (Note C)(Note U)	CAS-No.: 106-97-8 EC-No.: 203-448-7	0 – 15	Flam. Gas 1A, H220 Press. Gas (Liq.), H280

Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note U: When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.), Press. Gas (Liq.), Press. Gas (Ref. Liq.), Press. Gas (Diss.). Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

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First-aid measures after skin contact	: Not required for normal conditions of use. In the event of contact with the liquid: treat resulting frostbite as a burn. Thaw frosted parts with lukewarm water. Do not rub affected area.
First-aid measures after eye contact	: Not required for normal conditions of use. In the event of contact with the liquid: treat resulting frostbite as a burn. Flush with lukewarm water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Ensure that folded skin of eyelids is thoroughly washed with water. Obtain immediate medical attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Never give anything by mouth to an unconscious person.

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

Symptoms/effects after inhalation	: Over-exposure to vapour or mist, may cause symptoms such as respiratory irritation, cough, dizziness, headache and nausea.
Symptoms/effects after skin contact	: Contact with the liquefied gas may cause frostbite.
Symptoms/effects after eye contact	: Direct contact with the liquefied gas may cause severe and possibly permanent eye injury due to frostbite from rapid liquid evaporation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Water. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO ₂).
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5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable gas.
Explosion hazard	: Explosive vapour/air mixtures may be formed. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours. Under fire conditions closed containers may rupture or explode.
Hazardous decomposition products in case of fire	: Carbon monoxide. Carbon dioxide. Organic compounds.

5.3. Advice for firefighters

Protection during firefighting	: As in any fire, wear self-contained breathing apparatus and full protective gear.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Eliminate all ignition sources if safe to do so. Take precautionary measures against static discharge. Stay upwind/keep distance from source.
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For non-emergency personnel

Protective equipment	: Do not attempt to take action without suitable protective equipment. Wear suitable protective clothing, gloves and eye or face protection. For further information refer to section 8: "Exposure controls/personal protection".
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Emergency procedures	: Ventilate area. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Evacuate unnecessary personnel.
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For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. Wear suitable protective clothing, gloves and eye or face protection. For further information refer to section 8: "Exposure controls/personal protection".
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Emergency procedures	: Ventilate area. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing.
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6.2. Environmental precautions

Avoid release to the environment. Notify authorities if large amounts of the product enters sewers or public waters.

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6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage. Stop leak, if possible without risk. A vapor suppressing foam may be used to reduce vapors.
- Methods for cleaning up : Stay upwind/keep distance from source. Water spray may be used to disperse gases/vapours. Large spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Small spills: Clean up any spills as soon as possible, using an absorbent material to collect it. Wash the spill area to remove residues. Use non-sparking tools.
- Other information : Remove all sources of ignition.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of contaminated materials refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Use of non-sparking or explosion-proof equipment may be necessary, depending upon the type of operation. Wear recommended personal protective equipment. Avoid contact with eyes, skin and clothing. Avoid breathing vapours, mist. Do not pierce or burn, even after use. Wash hands/face thoroughly after handling.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store tightly closed in a dry, cool and well-ventilated place. Keep only in original container. Use properly labelled and closeable containers. Keep/Store away from combustibles. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated.
- Incompatible materials : Strong acids. Strong bases. Strong oxidising agents.
- Storage temperature : ≤ 30 °C

7.3. Specific end use(s)

combustion.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Propane (74-98-6)	
Ireland - Occupational Exposure Limits	
Local name	Propane
OEL TWA	1000 ppm
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values), Asphx. (Gaseous chemical substances which may not produce significant physiological effects in the exposed employee, but when present in high concentrations will act as simple asphyxiants)

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Butane (106-97-8)	
Ireland - Occupational Exposure Limits	
Local name	Butane, all isomers: Butane
OEL STEL	1000 ppm
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024
United Kingdom - Occupational Exposure Limits	
Local name	Butane
WEL TWA (mg/m ³)	1450 mg/m ³
WEL TWA (ppm)	600 ppm
WEL STEL (mg/m ³)	1810 mg/m ³
WEL STEL (ppm)	750 ppm
Remark (WEL)	Carc (Capable of causing cancer and/or heritable genetic damage. See paragraphs 49–51), (only applies if Butane contains more than 0.1% of buta-1,3-diene)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Isobutane (75-28-5)	
Ireland - Occupational Exposure Limits	
Local name	Butane, all isomers: Isobutane
OEL STEL	1000 ppm
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024
Propene (115-07-1)	
Ireland - Occupational Exposure Limits	
Local name	Propylene
OEL TWA	500 ppm
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values), Aspht. (Gaseous chemical substances which may not produce significant physiological effects in the exposed employee, but when present in high concentrations will act as simple asphyxiants)
Regulatory reference	Chemical Agents Code of Practice 2024

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure adequate ventilation.

Personal protection equipment

Personal protective equipment:

Wear suitable protective clothing.

Eye and face protection

Eye protection:

Wear goggles or safety glasses with side shields if contact with the eyes is possible. Standard EN 16321 - Personal eye-protection.

Skin protection

Skin and body protection:

Long sleeved clothing recommended

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Hand protection:

Wear protective gloves if skin contact is possible. Standard EN 374 - Protective gloves against chemicals. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough.

Other skin protection

Materials for protective clothing:

Not normally required

Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Observe occupational exposure limits and minimise the risk of exposure.

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Gas
Colour	: Colourless.
Appearance	: Aerosol.
Odour	: Odourless.
Odour threshold	: Not available
Melting point	: -185 °C (Propene, CAS#115-07-1) -159.4 °C (Isobutane, CAS#75-28-5) -138.3 °C (Butane, CAS#106-97-8) -187.6 °C (Propane, CAS#74-98-6)
Freezing point	: Not applicable
Boiling point	: -48 °C (Propene, CAS#115-07-1) -11.3 °C (Isobutane, CAS#75-28-5) -0.5 °C (Butane, CAS#106-97-8) -42.1 °C (Propane, CAS#74-98-6)
Flammability (solid, gas)	: Not available
Explosive properties	: May form flammable/explosive vapour-air mixture.
Lower explosion limit	: Not available
Upper explosion limit	: 2 - 11% (Propene, CAS#115-07-1) 1.8 - 8.4% (Isobutane, CAS#75-28-5) 1.9 - 8.5% (Butane, CAS#106-97-8) 2.1 - 9.5% (Propane, CAS#74-98-6)
Flash point	: -60 °C (Butane, CAS#106-97-8) -104 °C (Propane, CAS#74-98-6)
Auto-ignition temperature	: 455 °C (Propene, CAS#115-07-1) 460 °C (Isobutane, CAS#75-28-5) 287 °C (Butane, CAS#106-97-8) 450 °C (Propane, CAS#74-98-6)
Decomposition temperature	: Not available
pH	: Not applicable
Viscosity, kinematic	: Not applicable
Solubility	: Water: Soluble
Log Kow	: Not available
Log Pow	: 1.76 (Propene, CAS#115-07-1) 2.76 (Isobutane, CAS#75-28-5) 2.89 (Butane, CAS#106-97-8) 2.36 (Propane, CAS#74-98-6)
Vapour pressure	: Not available
Vapour pressure at 50 °C	: 17,8 bar

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Density	: 0.589 g/cm ³ (Isobutane, CAS#75-28-5) 0.573 g/cm ³ (Butane, CAS#106-97-8) 0.493 g/cm ³ (Propane, CAS#74-98-6)
Relative density	: Not applicable
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

Other safety characteristics

Fat solubility	: Soluble in alcohols, Ethers
Flammability limit - lower	: 2 - 11% (Propene, CAS#115-07-1) 1.8 - 8.4% (Isobutane, CAS#75-28-5) 1.9 - 8.5% (Butane, CAS#106-97-8) 1.8 - 15% (Propane, CAS#74-98-6)

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7). Flammable gas.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Pressurised container: May burst if heated.

10.4. Conditions to avoid

Avoid heat, flames, sparks and other sources of ignition and high temperature. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

In case of fire product can release: Carbon monoxide. Carbon dioxide. Organic compounds.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Propane (74-98-6)	
LC50 inhalation, rat (ppm)	> 800000 ppm - 15 minutes, gas
Butane (106-97-8)	
LC50 inhalation, rat (vapours - mg/l/4h)	658 mg/l
Isobutane (75-28-5)	
LC50 inhalation, rat (mg/l)	> 42,8 mg/l
Skin corrosion/irritation	: Not classified
Propene (115-07-1)	
pH	No data available. Study is not technically feasible.

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Serious eye damage/irritation : Not classified

Propene (115-07-1)

pH	No data available. Study is not technically feasible.
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Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Propene (115-07-1)

NOAEC, Carcinogenicity, Inhalation, rat, mouse	10000 ppm (2 years, OECD 453 method)
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IARC group	3 - Not classifiable
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Reproductive toxicity : Not classified

Propene (115-07-1)

NOAEC(P0), Maternal Toxicity, Developmental toxicity, Inhalation, rat	10000 ppm (OECD 414 method)
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NOAEC(F1), Teratogenicity, Inhalation, rat	10000 ppm (OECD 414 method)
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STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Propene (115-07-1)

NOAEC (inhalation, rat, gas, 90 days)	10000 ppmv/6h/day (OECD 413 method)
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Aspiration hazard : Not applicable

11.2. Information on other hazards

Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Propane (74-98-6)

LC50 fish	49,9 mg/l Quantitative Structure-Activity Relationship (QSAR)
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EC50 Daphnia	27,14 mg/l Quantitative Structure-Activity Relationship (QSAR)
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EC50 96h - Algae [1]	11,89 mg/l Quantitative Structure-Activity Relationship (QSAR)
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Butane (106-97-8)

LC50 fish	24,11 mg/l Quantitative Structure-Activity Relationship (QSAR)
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EC50 Daphnia	14,22 mg/l Quantitative Structure-Activity Relationship (QSAR)
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EC50 96h - Algae [1]	7,71 mg/l Quantitative Structure-Activity Relationship (QSAR)
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Isobutane (75-28-5)

LC50 fish	24,11 mg/l Quantitative Structure-Activity Relationship (QSAR)
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EC50 Daphnia	14,22 mg/l Quantitative Structure-Activity Relationship (QSAR)
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Isobutane (75-28-5)	
EC50 96h - Algae [1]	7,71 mg/l Quantitative Structure-Activity Relationship (QSAR)
Propene (115-07-1)	
LC50 fish	51,7 mg/l - 96 Hours (QSAR)
EC50 Daphnia	28,2 mg/l - 48 Hours (Daphnia sp.), (QSAR)
EC50 72h - Algae [1]	12,1 mg/l - 96 Hours (QSAR)
ChV (chronic value), algae	4.5 mg/l (96 Hours, QSAR)

12.2. Persistence and degradability

TIMCO Firmahold Finishing Nailer Fuel Cell	
Persistence and degradability	Not established.
Propane (74-98-6)	
Persistence and degradability	Not established.
Biodegradation	100 % - 385.5 Hours
Butane (106-97-8)	
Persistence and degradability	Readily biodegradable.
Biodegradation	100 % - 385.5 Hours
Isobutane (75-28-5)	
Persistence and degradability	Readily biodegradable.
Biodegradation	100 % - 385.5 Hours
Propene (115-07-1)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

TIMCO Firmahold Finishing Nailer Fuel Cell	
Log Pow	1.76 (Propene, CAS#115-07-1) 2.76 (Isobutane, CAS#75-28-5) 2.89 (Butane, CAS#106-97-8) 2.36 (Propane, CAS#74-98-6)
Propane (74-98-6)	
Log Pow	1,09 – 2,31 (20 °C)
Butane (106-97-8)	
Log Pow	1,09 – 2,31 (20 °C)
Isobutane (75-28-5)	
BCF - Fish [1]	1,57 – 1,97
Log Pow	2,88 (20 °C)
Propene (115-07-1)	
Log Pow	1,77 (20 °C, pH 7)
Bioaccumulative potential	Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

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12.4. Mobility in soil

Propene (115-07-1)

Ecology - soil

No information available.

12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations

: Dispose of this product and its container in a safe manner in accordance with local/national regulations. The correct waste code must be determined by the producer of the waste, based on how the waste has been produced.

Additional information

: Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials

: Avoid release to the environment.

SECTION 14: Transport information

In accordance with / ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. (ADR) : UN 1950

UN-No. (IMDG) : UN 1950

UN-No. (IATA) : UN 1950

UN-No. (ADN) : UN 1950

UN-No. (RID) : UN 1950

14.2. UN proper shipping name

Proper Shipping Name : AEROSOLS

Proper Shipping Name (IMDG) : AEROSOLS

Proper Shipping Name (IATA) : Aerosols, flammable

Proper Shipping Name (ADN) : AEROSOLS

Proper Shipping Name (RID) : AEROSOLS

Transport document description (ADR) (ADR) : UN 1950 AEROSOLS, 2.1, (D)

Transport document description (IMDG) : UN 1950 AEROSOLS, 2.1

Transport document description (IATA) : UN 1950 Aerosols, flammable, 2.1

Transport document description (ADN) : UN 1950 AEROSOLS, 2.1

Transport document description (RID) : UN 1950 AEROSOLS, 2.1

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14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 2.1
Hazard labels : 2.1



IMDG

Transport hazard class(es) (IMDG) : 2.1
Danger labels (IMDG) : 2.1



IATA

Transport hazard class(es) (IATA) : 2.1
Danger labels (IATA) : 2.1



ADN

Transport hazard class(es) (ADN) : 2.1
Danger labels (ADN) : 2.1



RID

Transport hazard class(es) (RID) : 2.1
Danger labels (RID) : 2.1



14.4. Packing group

Packing group : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
EmS-No. (Fire) : F-D
EmS-No. (Spillage) : S-U
Other information : No supplementary information available

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14.6. Special precautions for user

Overland transport

Classification code (ADR)	: 5F
Special provisions (ADR)	: 190, 327, 344, 625
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P207, LP200
Special packing provisions (ADR)	: PP87, RR6, L2
Mixed packing provisions (ADR)	: MP9
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V14
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV9, CV12
Special provisions for carriage - Operation (ADR)	: S2
Tunnel restriction code (ADR)	: D

Transport by sea

Special provisions (IMDG)	: 63, 190, 277, 327, 344, 381, 959
Limited quantities (IMDG)	: SP277
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P207, LP200
Special packing provisions (IMDG)	: PP87, L2
Stowage category (IMDG)	: None

Air transport

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
Special provisions (IATA)	: A145, A167, A802
ERG code (IATA)	: 10L

Inland waterway transport

Classification code (ADN)	: 5F
Special provisions (ADN)	: 190, 327, 344, 625
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01, VE04
Number of blue cones/lights (ADN)	: 1

Rail transport

Classification code (RID)	: 5F
Special provisions (RID)	: 190, 327, 344, 625
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P207, LP200
Special packing provisions (RID)	: PP87, RR6, L2
Mixed packing provisions (RID)	: MP9
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W14
Special provisions for carriage - Loading, unloading and handling (RID)	: CW9, CW12
Colis express (express parcels) (RID)	: CE2
Hazard identification number (RID)	: 23

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Abbreviations and acronyms:

	ADR (Accord relatif au transport international des marchandises dangereuses par route)
	BCF (Bioconcentration factor)
	CAS (Chemical Abstracts Service) number
	CLP (Classification, Labeling and Packaging)
	DNEL (Derived No Effect Level)
	EC (European Community)
	EC50 (Effective Concentration 50%)
	EN (European Norm)
	IARC (International Agency for Research on Cancer)
	IATA (International Air Transport Association)
	IBC (Intermediate Bulk Container)
	IMDG (International Maritime Dangerous Goods Code)
	Koc (Soil adsorption coefficient)

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Abbreviations and acronyms:

	LC50 (Lethal Concentration 50%)
	LD50 (Lethal Dose 50%)
	OECD (Organisation for Economic Co-operation and Development)
	OEL (Occupational exposure limit)
	NOAEL (No Observed Adverse Effect Level)
	NOEC (No Observed Effect Concentration)
	PBT (Persistent, Bioaccumulative and Toxic)
	PNEC (Predicted No Effect Concentration)
	QSAR (Quantitative Structure-Activity Relationship)
	REACH (Registration, Evaluation and Authorisation of CHemicals)
	STEL (Short Term Exposure Limit)
	TWA (Time Weighted Average)
	UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)
	UVCB (Unknown or Variable composition, Complex reaction products or Biological materials)
	vPvB (very Persistent and very Bioaccumulative)
	WAF (Water Accommodated Fraction)

Data sources : 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.

Other information : Classification procedure according to Regulation (EC) No. 1272/2008 [CLP]: Physical hazards: On basis of test data. Health hazards: Calculation method. Environmental hazards: Calculation method.

Full text of H- and EUH-statements:

Flam. Gas 1	Flammable gases, Category 1
Flam. Gas 1A	Flammable gases, Category 1A
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.