# SAFETY DATA SHEET

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

| 1.1. Product identifier |                   |
|-------------------------|-------------------|
| Product name            | Salvus Hi-Pro Gas |
| Name of the substance   | Propylene         |
| Synonyms                | None.             |
| Product code            | ANGTMAP           |
| Issue date              | 19-September-2022 |
| Version number          | 1.1               |
| Revision date           | -                 |
|                         |                   |

1.2. Relevant identified uses of the substance or mixture and uses advised againstIdentified usesHand Torch FuelUses advised againstNone known.

#### 1.3. Details of the supplier of the safety data sheet

| Manufacturer/Supplier | Navigator MSL Ltd                                   |
|-----------------------|---|
| Address               | Mill Road, Sharnbrook, Bedfordshire, MK44 1NU. U.K. |
| E-mail address        | sales@navigatormsl.com                              |
| Telephone number      | +44 1234 781234                                     |

1.4. Emergency telephone number +44 1234 781234 (9:00am to 5:00pm GMT+8)

# **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

#### Physical hazards

| ny sicul hazaras                                      |               |   |
|---|---------------|---|
| Flammable gases (including chemically unstable gases) | Category 1    | H220 - Extremely flammable gas.                               |
| Gases under pressure                                  | Liquefied gas | H280 - Contains gas under<br>pressure; may explode if heated. |

#### Hazard summary

Contents under pressure. Will be easily ignited by heat, spark or flames. Heat may cause the containers to explode. May displace oxygen and cause rapid suffocation.

#### 2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms



| Signal word              | Danger   |
|--------------------------|--|
| Hazard statements        |  |
| H220<br>H280             | Extremely flammable gas.<br>Contains gas under pressure; may explode if heated.                |
| Precautionary statements |  |
| Prevention               |  |
| P210                     | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| Response                 |  |
| P377                     | Leaking gas fire: Do not extinguish, unless leak can be stopped safely.                        |
| Propylene                | SDSI   |

MATERIAL SAFETY DATA SHEET-- ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010



| P381  | In case of leakage, eliminate all ignition sources.  | Carrac   |
|---|--|----------|
| <b>Storage</b><br>P410 + P403                     | Protect from sunlight. Store in a well-ventilated place.                                   |          |
| Disposal  | Dispose of waste and residues in accordance with local authority requirements.             |          |
| Supplemental label information 2.3. Other hazards | None.<br>May displace oxygen and cause rapid suffocation. Not a PBT or vPvB substance or r | nixture. |

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

#### **General information**

| Chemical name   | % C                      | CAS-No. / EC No.      | <b>REACH Registration No.</b> | INDEX No.    | Notes |
|-----------------|--------------------------|-----------------------|-------------------------------|--------------|-------|
| Propylene       | 99.5 - 100               | 115-07-1<br>204-062-1 | 01-2119447103-50-<br>0287     | 601-011-00-9 |       |
| Classification: | Flam. Gas 1;H220, Press. | . Gas;H280            |                               |              | U     |

| Composition comments | Gas concentrations are in percent by volume.                   |
|----------------------|--|
|                      | The full text for all H-statements is displayed in section 16. |

# **SECTION 4: First aid measures**

| General information   | If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.   |  |
|---|---|--|
| 4.1. Description of first aid measu   | res   |  |
| Inhalation  | Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory tract irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.             |  |
| Skin contact  | Not likely, due to the form of the product. If frostbite occurs, immerse affected area in warm water (not exceeding 105°F/41°C). Keep immersed for 20 to 40 minutes. Get medical attention immediately.   |  |
| Eye contact   | Not likely, due to the form of the product. If frostbite occurs, immediately flush eyes with plenty of warm water (not exceeding 105° F/41°C) for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention promptly if symptoms persist or occur after washing.   |  |
| Ingestion   | This material is a gas under normal atmospheric conditions and ingestion is unlikely.   |  |
| 4.2. Most important symptoms<br>and effects, both acute and<br>delayed                | Exposure to rapidly expanding gas or vapourizing liquid may cause frostbite ("cold burn"). Very high exposure can cause suffocation from lack of oxygen. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Asphyxiation may bring about unconsciousness without warning and so rapidly that victim may be unable to protect themself. |  |
| 4.3. Indication of any<br>immediate medical attention<br>and special treatment needed | Exposure may aggravate pre-existing respiratory disorders. Provide general supportive measures and treat symptomatically.   |  |

# **SECTION 5: Firefighting measures**

| General fire hazards   | Extremely flammable gas. Contents under pressure. Pressurised container may explode when exposed to heat or flame. |
|--|--|
| 5.1. Extinguishing media   |  |
| Suitable extinguishing media   | Dry chemical powder. Carbon dioxide (CO2). Water fog. Foam.  |
| Unsuitable extinguishing media   | Do not use water jet as an extinguisher, as this will spread the fire.   |
| 5.2. Special hazards arising<br>from the substance or mixture                    | Extremely flammable gas. During fire, gases hazardous to health may be formed.                                     |
| 5.3. Advice for firefighters<br>Special protective<br>equipment for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.                      |

| MATERIAL SAFETY DATA SHEET-      | - ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010   | NAVIGATOR MSL LTD   |
|----------------------------------|---|---|
|                                  |   | Salvus  |
| Special fire fighting procedures | Do not extinguish fires unless gas flow can be stopped safely; explosive re-ignitic<br>Promptly isolate the scene by removing all persons from the vicinity of the incide<br>be taken involving any personal risk or without suitable training. For fires involvir<br>not enter any enclosed or confined fire space without proper protective equipme<br>self-contained breathing apparatus. Stop flow of material. Use water to keep fin<br>containers cool and to protect personnel effecting shutoff. If a leak or spill has n<br>water spray to disperse the vapors and to protect personnel attempting to stop l<br>from fire control or dilution from entering streams, sewers or drinking water supp | nt. No action shall<br>ng this material, do<br>ent, including<br>e exposed<br>tot ignited, use<br>eak. Prevent runoff |
| Specific methods                 | Use standard firefighting procedures and consider the hazards of other involved<br>containers with flooding quantities of water until well after fire is out.   | materials. Cool   |

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

| o.i.i cisoliai piecaaliolis, pioteeti                        | ive equipment and emergency procedures  |
|--|---|
| For non-emergency<br>personnel                               | Evacuate the area promptly. No action shall be taken involving any personal risk or without suitable training. In the event of a leak evacuate all personnel until ventilation can restore oxygen concentrations to safe levels. Keep unnecessary personnel away. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Wear appropriate personal protective equipment (See Section 8). |
| For emergency responders                                     | Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up.  |
| 6.2. Environmental precautions                               | Should not be released into the environment. Prevent further leakage or spillage if safe to do so.  |
| 6.3. Methods and material for<br>containment and cleaning up | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Stop leak if you can do so without risk. If possible, turn leaking containers so that gas escapes rather than liquid. Isolate area until gas has dispersed.  |
| 6.4. Reference to other sections                             | For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.   |
|  |   |

# **SECTION 7: Handling and storage**

| 7.1. Precautions for safe handling                                      | Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. All equipment used when handling the product must be grounded. Do not breathe gas. Avoid prolonged exposure. Do not enter storage areas or confined spaces unless adequately ventilated. Use only outdoors or in a well-ventilated area. Oxygen concentration should not fall below 19.5 % at sea level (pO2 = 135 mmHg). Mechanical ventilation or local exhaust ventilation may be required. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.  |
|---|--|
| 7.2. Conditions for safe<br>storage, including any<br>incompatibilities | Store at temperatures not exceeding 49°C/120°F. Keep away from heat, sparks and open flame.<br>Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store<br>in a cool, dry place out of direct sunlight. Cylinders should be stored upright, with valve protection<br>cap in place, and firmly secured to prevent falling or being knocked over. Protect cylinders from<br>damage. Stored containers should be periodically checked for general condition and leakage.<br>Store in original tightly closed container. Keep container tightly closed. Store in a well-ventilated<br>place. Use care in handling/storage. Store away from incompatible materials (see section 10 of the<br>SDS). |
| 7.3. Specific end use(s)  | Hand Torch Fuel.   |
| SECTION 8: Exposure co  | ontrols/personal protection PPE Regulation (EU) 2016/425   |

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

# Occupational exposure limits

UK. Occupational Exposure Limit Value 19TH SEPTEMBER 2022

| Components                                   | Туре                                    | Value                 |  |
|--|---|-----------------------|--|
| Propylene (CAS 115-07-1)                     | TWA                                     | 500 ppm               |  |
| Impurities                                   | Туре                                    | Value                 |  |
| Biological limit values                      | No biological exposure limits noted for | or the ingredient(s). |  |
| Recommended monitoring<br>rocedures          | Follow standard monitoring procedures.  |                       |  |
| Derived no effect levels<br>DNELs)           | Not available.                          |                       |  |
| Predicted no effect<br>oncentrations (PNECs) | Not available.                          |                       |  |
| Control banding approach                     | No data available.                      |                       |  |
| .2. Exposure controls                        |   |                       |  |

MATERIAL SAFETY DATA SHEET-- ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010



| Appropriate engineering controls |  | local exhaust v  | ate ventilation and minimize the risk of inhalation of gas. Use process enclosures,<br>entilation, or other engineering controls to control airborne levels below<br>exposure limits.      |
|----------------------------------|--|--|--|
|                                  | protection measures, such<br>equipment (PPE) EC 2016 |  | Assumes a good basic standard of occupational hygiene is implemented. Avoid contact with skin and eyes.  |
|                                  | Eye/ face<br>protection                              | Wear eye prote   | ction with side protection (EN166).  |
|                                  |  |  | e personal protective equipment, avoid direct contact.   |
|                                  | Skin<br>protection                                   | COLD LE<br>Liquid: Wear co   | llating gloves EN407 (heat) to standard EN388:2003 (3232) GLOVE TO REACH CONTACT<br>VEL 2 FOR BREAK THROUGH TIME<br>Id insulating gloves ( HEAT EN407 THERMAL EN511 GLOVE TO REACH CONTACT |
|                                  | Respiratory protection                               | COLD LEVEL 2 FRO BREAKTHROUGH TIME) face shield/eye protection<br>Respiratory protection is not necessary if room is well ventilated.<br>In case of inadequate ventilation wear respiratory protection. To Class ABEK1/P3. Conforming EN14387:2004<br>Heat: Wear insulating gloves EN407 (heat) to standard EN388:2003 (3232) GLOVE TO REACH CONTACT |  |
| Thermal h                        | azards   | Liquid: Wear co  | VEL 2 FOR BREAK THROUGH TIME<br>Id insulating gloves ( HEAT EN407 THERMAL EN511 GLOVE TO REACH CONTACT<br>EVEL 2 FRO BREAKTHROUGH TIME) face shield/eye protection                         |
| Hygiene r                        | neasures   | Do not eat, dri  | nk or smoke when using the product. Wash thoroughly after handling. Provide<br>on and safety shower. Handle in accordance with good industrial hygiene and safety                          |
| Environm<br>controls             | ental exposure                                       | Environmental  | manager must be informed of all major releases.  |

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

| Appearance |
|------------|
|------------|

| Physical state                             | Gas.                                  |
|--|---------------------------------------|
| Form                                       | Compressed liquefied gas.             |
| Colour                                     | Colourless.                           |
| Odour                                      | Hydrocarbon or mercaptan if odorized. |
| Odour threshold                            | Not available.                        |
| рН   | Not applicable.                       |
| Melting point/freezing point               | -185 °C (-301 °F)                     |
| Initial boiling point and boiling range    | -48 °C (-54.4 °F)                     |
| Boiling point pressure                     | 101.33 kPa                            |
| Flash point                                | -107.8 °C (-162.0 °F)                 |
| Evaporation rate                           | Not applicable.                       |
| Flammability (solid, gas)                  | Extremely flammable gas.              |
| Upper/lower flammability or explo          | sive limits                           |
| Flammability limit - lower<br>(%)          | 2 % v/v                               |
| Flammability limit - upper<br>(%)          | 11 % v/v                              |
| Vapour pressure                            | 109.73 PSIG                           |
| Vapor pressure temp.                       | 21 °C (69.8 °F)                       |
| Vapour density                             | 1.5 (Air=1)                           |
| Vapor density temp.                        | 0 °C (32 °F) (gas)                    |
| Relative density                           | 0.52 (liquid) ( H2O=1)                |
| Solubility(ies)                            | 384 mg/l - Slightly soluble in water. |
| Partition coefficient<br>(n-octanol/water) | 1.77                                  |
| Auto-ignition temperature                  | 497.22 °C (927 °F)                    |
| Decomposition temperature                  | Not available.                        |
| Viscosity                                  | Not available.                        |
| Explosive properties                       | Not explosive.                        |
| Oxidising properties                       | Not oxidising.                        |
|  |                                       |



| 9.2. Other information |                            |
|------------------------|----------------------------|
| Molecular weight       | 42 g/mol                   |
| Percent volatile       | 100 %                      |
| Surface tension        | 16.7 mN/m (90 °C (194 °F)) |

# **SECTION 10: Stability and reactivity**

| 10.1. Reactivity<br>10.2. Chemical stability | Incompatible materials.<br>Stable under normal temperature conditions and recommended use.   |
|--|--|
| 10.3. Possibility of hazardous reactions     | Polymerization will not occur. May form explosive mixture with air. This product may react with oxidizing agents.                              |
| 10.4. Conditions to avoid                    | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| 10.5. Incompatible materials                 | Strong oxidising agents. Strong acids. Halogens.   |
| 10.6. Hazardous<br>decomposition products    | Thermal decomposition of this product can generate carbon monoxide and carbon dioxide.<br>Hydrocarbons.  |

# **SECTION 11: Toxicological information**

Occupational exposure to the substance or mixture may cause adverse effects.

#### Information on likely routes of exposure

**General information** 

| Inhalation   | High concentrations: Suffocation (asphyxiant) hazard - if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels. Breathing of high concentrations may cause dizziness, light-headedness, headache, nausea and loss of co-ordination. Continued inhalation may result in unconsciousness.             |
|--------------|---|
| Skin contact | Contact with liquefied gas may cause frostbite.   |
| Eye contact  | Contact with liquefied gas may cause frostbite.   |
| Ingestion    | This material is a gas under normal atmospheric conditions and ingestion is unlikely.   |
| Symptoms     | Exposure to rapidly expanding gas or vapourizing liquid may cause frostbite ("cold burn"). Very<br>high exposure can cause suffocation from lack of oxygen. Victim may not be aware of<br>asphyxiation. Asphyxiation may bring about unconsciousness without warning and so rapidly that<br>victim may be unable to protect themself. |

#### 11.1. Information on toxicological effects

| Acute toxicity                                     | Not expected to be ac   | utely toxic.   |  |
|--|---|--|--|
| Components   | Species   | Test results   |  |
| Propylene (CAS 115-07-1)                           |   |  |  |
| Acute  |   |  |  |
| Inhalation   |   |  |  |
| Gas  |   |  |  |
| LC50   | Rat   | > 65000 ppm, 4 Hours   |  |
| Skin corrosion/irritation                          | Based on available da   | Based on available data, the classification criteria are not met.  |  |
| Serious eye damage/eye<br>irritation               | Based on available da   | ta, the classification criteria are not met.   |  |
| Respiratory sensitisation                          | Based on available data, the classification criteria are not met. |  |  |
| Skin sensitisation                                 | Based on available da   | Based on available data, the classification criteria are not met.  |  |
| Germ cell mutagenicity                             | Based on available da   | Based on available data, the classification criteria are not met.  |  |
| Carcinogenicity                                    |   | isidered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Not nogenicity to humans. Based on available data, the classification criteria are |  |
| IARC Monographs. Overall Ev                        | aluation of Carcinogenio  | sity   |  |
| Propylene (CAS 115-07-1                            | )   | 3 Not classifiable as to carcinogenicity to humans.  |  |
| Reproductive toxicity                              | Based on available da   | ta, the classification criteria are not met.   |  |
| Specific target organ toxicity - single exposure   | Based on available da   | ta, the classification criteria are not met.   |  |
| Specific target organ toxicity - repeated exposure | Based on available da   | ta, the classification criteria are not met.   |  |
| Aspiration hazard                                  | Not likely, due to the f  | orm of the product.  |  |
| Mixture versus substance<br>information            | No information availab  | le.  |  |
| Other information                                  | Exposure over a long p  | period of time may cause central nervous system effects.   |  |



# **SECTION 12: Ecological information**

| •=••••••••••••••••••••••••••••••••••••  |   |  |
|---|---|--|
| 12.1. Toxicity  | The product is not expected to be hazardous to the environment.   |  |
| 12.2. Persistence and<br>degradability  | The product is readily biodegradable.   |  |
| 12.3. Bioaccumulative potential   | The product is not expected to bioaccumulate.   |  |
| Partition coefficient<br>n-octanol/water (log Kow)<br>Propylene (CAS 115-07-1)<br>Propane (CAS 74-98-6) | 1.77<br>2.36  |  |
| Bioconcentration factor (BCF)   | Not available.  |  |
| 12.4. Mobility in soil  | Not relevant, due to the form of the product.   |  |
| 12.5. Results of PBT<br>and vPvB<br>assessment  | Not a PBT or vPvB substance or mixture.   |  |
| 12.6. Other adverse effects   | The product contains volatile organic compounds which have a photochemical ozone creation potential.  |  |
| 12.7. Additional information  | None.   |  |
| SECTION 13: Disposal cor  | siderations   |  |
| 13.1. Waste treatment methods   |   |  |
| Residual waste  | Dispose in accordance with all applicable regulations.  |  |
| Contaminated packaging  | Empty containers should be taken to an approved waste handling site for recycling or disposal.  |  |
| EU waste code   | 16 05 04*<br>The Waste code should be assigned in discussion between the user, the producer and the waste<br>disposal company.  |  |
| Disposal methods/information  | Use the container until empty. Do not dispose of any non-empty container. Empty containers have residual vapor that is flammable and explosive. Cylinders should be emptied and returned to a hazardous waste collection point. Do not puncture or incinerate even when empty. Dispose in accordance with all applicable regulations. |  |
| Special precautions   | Dispose of in accordance with local regulations.  |  |
| SECTION 14: Transport in  | formation   |  |
| ADR   |   |  |
| 14.1. UN number   | UN1077  |  |
| 14.2. UN proper shipping  | Propylene   |  |
| name  |   |  |
| 14.3. Transport hazard class(e  | ·   |  |
| Class   | 2.1   |  |
| Subsidiary risk   | - 2.1   |  |
|   | 23  |  |
| Hazard No. (ADR)  | 23<br>B/D   |  |
| Tunnel restriction code<br>14.4. Packing group  |   |  |
| 14.5. Environmental hazards   | -<br>No   |  |
| 14.5. Environmental hazards   | Read safety instructions, SDS and emergency procedures before handling.   |  |
| for user  | read safety instructions, obe and emergency procedures before nanding.  |  |
| RID   |   |  |
| 14.1. UN number   | UN1077  |  |
| 14.2. UN proper shipping  | Propylene   |  |
| name  |   |  |
| 14.3. Transport hazard class(e  | us)   |  |
| Class   | 2.1   |  |
| Subsidiary risk   | -   |  |
| Label(s)  | 2.1 (+13)   |  |

Read safety instructions, SDS and emergency procedures before handling.

No

UN1077

Propylene

14.4. Packing group

14.1. UN number 14.2. UN proper shipping

for user

name

ADN

14.5. Environmental hazards

14.6. Special precautions



| 14.3. Transport hazard class(e                      | es)   |  |  |
|---|---|--|--|
| Class   | 2.1   |  |  |
| Subsidiary risk                                     | -   |  |  |
| Label(s)  | 2.1   |  |  |
| 14.4. Packing group                                 | _   |  |  |
| 14.5. Environmental hazards                         | No  |  |  |
| 14.6. Special precautions                           | Read safety instructions, SDS and emergency procedures before handling.   |  |  |
| for user  |   |  |  |
| ΙΑΤΑ  |   |  |  |
| 14.1. UN number                                     | UN1077  |  |  |
| 14.2. UN proper shipping                            | Propylene   |  |  |
| name  |   |  |  |
| 14.3. Transport hazard class(e                      | es)   |  |  |
| Class   | 2.1   |  |  |
| Subsidiary risk                                     | -   |  |  |
| Label(s)  | 2.1   |  |  |
| 14.4. Packing group                                 |   |  |  |
| 14.5. Environmental hazards                         | No  |  |  |
| ERG Code  | 10L   |  |  |
| 14.6. Special precautions                           | Read safety instructions, SDS and emergency procedures before handling.   |  |  |
| for user  |   |  |  |
| IMDG  |   |  |  |
| 14.1. UN number                                     |   |  |  |
| 14.2. UN proper shipping<br>name                    | PROPYLENE   |  |  |
| 14.3. Transport hazard class(e                      | es)   |  |  |
| Class   | 2.1   |  |  |
| Subsidiary risk                                     | -   |  |  |
| 14.4. Packing group                                 | -   |  |  |
| 14.5. Environmental hazards                         |   |  |  |
| Marine pollutant                                    | No  |  |  |
| EmS   | F-D, S-U  |  |  |
| 14.6. Special precautions                           | Read safety instructions, SDS and emergency procedures before handling.   |  |  |
| for user  |   |  |  |
| 14.7. Transport in bulk                             | Not established.  |  |  |
| according to Annex II of Marpol<br>and the IBC Code |   |  |  |
|   |   |  |  |
| General information                                 | Avoid transport on vehicles where the load space is not separated from the driver's compartment.<br>Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the<br>event of an accident or an emergency. Before transporting product containers: Ensure that<br>containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet<br>cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where<br>provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable |  |  |
|   | regulations.  |  |  |

#### **SECTION 15: Regulatory information**

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

- EU regulations
  - Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended Not listed.

- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Not listed.



Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

#### Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended Not listed.

#### **Restrictions on use**

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Propylene (CAS 115-07-1)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

#### Other EU regulations

#### Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Propane (CAS 74-98-6) Propylene (CAS 115-07-1)

#### Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulationsFollow national regulation for work with chemical agents. Young people under 18 years old are not<br/>allowed to work with this product according to EU Directive 94/33/EC on the protection of young<br/>people at work, as amended.

| 15.2. Chemical safety | No Chemical Safety Assessment has been carried out. |
|-----------------------|---|
|-----------------------|---|

assessment

#### **SECTION 16: Other information**

| List of abbreviations  |   |
|--|---|
| References   | PBT: Persistent, bioaccumulative and toxic.<br>vPvB: Very Persistent and very Bioaccumulative.<br>DNEL: Derived No-Effect Level.<br>PNEC: Predicted No-Effect Concentration.<br>STEL: Short term exposure limit.<br>TWA: Time weighted average.<br>PEL: Permissible Exposure Limit.<br>LC50: Lethal Concentration, 50%.<br>HSDB® - Hazardous Substances Data Bank<br>IARC Monographs. Overall Evaluation of Carcinogenicity |
|  | National Toxicology Program (NTP) Report on Carcinogens<br>ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices<br>EPA: AQUIRE database<br>NLM: Hazardous Substances Data Base   |
| Information on evaluation<br>method leading to the<br>classification of mixture    | The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.   |
| Full text of any H-statements<br>not written out in full under<br>Sections 2 to 15 | H220 Extremely flammable gas.   |
|  | H280 Contains gas under pressure; may explode if heated.  |
| Training information   | Follow training instructions when handling this material.   |
| Disclaimer   | All information in this Safety Data Sheet is believed to be accurate and reliable. However, no guarantee or warranty of any kind is made with regard to the accuracy of information or the suitability of the recommendations contained herein. It is the user's responsibility to assess the safety and toxicity of this product under their own conditions of use and to comply with all applicable laws and regulations. |
| 16.1. SAFETY DATA SHEET  | Page: 3/4 OF 8<br>Version: 1.1 UPDATED Date: 19-09.2022<br>Exposure Controls 8.2<br>Training advice: Consideration should be given to the work procedures involved and the potential<br>extent of exposure as they may determine whether a higher level of protection is required.  |
|  | ACCORDING TO EC-REGULATIONS EC NO 2016 /425 updated from ANNEX 11 OF REACH DIRECTIVE 89/686/EEC   |
|  |   |