

# SAFETY DATA SHEET



## FireMaster VeeMap

No.: 230100320448664E

Warranty of Design: GHS (Ninth Revised Edition)

Date: Jun.6,2023

### Section 1 Product and Company Identification

#### > Product Identifier

Product Name VeeMap  
Synonyms VMAP

#### > Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses Please consult manufacturer.  
Uses Advised Against Please consult manufacturer.

#### > Details of the Supplier of the Safety Data Sheet

Applicant Name Mark Vitow Ltd  
Application Address 1 Silver Court, Watchmead, Welwyn Garden City, Hertfordshire  
Applicant Post Code AL7 1LT  
Applicant Telephone 02082073784  
Applicant Fax —  
Applicant E-mail sales@markvitow.com  
Supplier Name Mark Vitow Ltd  
Supplier Address 1 Silver Court, Watchmead, Welwyn Garden City, Hertfordshire  
Supplier Post Code AL7 1LT  
Supplier Telephone 02082073784  
Supplier Fax —  
Supplier E-mail sales@markvitow.com

#### > Emergency Phone Number

Emergency Phone Number 02082073784

### Section 2 Hazards Identification

Hazard class and label elements of the product according to GHS (the ninth revised edition):

#### > GHS Hazard Class

Flammable Gases Category 1A  
Gases Under Pressure Liquefied gas

#### > GHS Label Elements

**Pictogram****Signal Word****Danger****> Hazard Statements**

|             |  |
|-------------|--|
| <b>H220</b> | Extremely flammable gas                            |
| <b>H280</b> | 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.

**P381** In case of leakage, eliminate all ignition sources.

**Storage**

**P403** Store in a well-ventilated place.

**P410+P403** Protect from sunlight. Store in a well-ventilated place.

**Disposal**

Not applicable

**Section 3 Composition/Information on Ingredients**

| <b>Component</b> | <b>CAS No.</b> | <b>EC No.</b> | <b>Concentration (weight percent, %)</b> |
|------------------|----------------|---------------|--|
| Propylene        | 115-07-1       | 204-062-1     | 40                                       |
| Propane          | 74-98-6        | 200-827-9     | 30                                       |
| Dimethyl ether   | 115-10-6       | 204-065-8     | 30                                       |

**Section 4 First Aid Measures****> Description of First Aid Measures****General Advice**

Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.

**Eye Contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

**Skin Contact**

Take off contaminated clothing and shoes immediately. Wash off with plenty of water

for at least 15 minutes and consult a physician if feel uncomfortable.

**Ingestion**

Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

**Inhalation**

Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

**Protecting of  
First-aiders**

Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

**> Most Important Symptoms and Effects, both Acute and Delayed**

- 1 Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

**> Indication of Any Immediate Medical Attention and Special Treatment Needed**

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

**Section 5 Fire Fighting Measures****> Extinguishing Media****Suitable Extinguishing  
Media**

Dry chemical, carbon dioxide or water spray.

**Unsuitable  
Extinguishing Media**

Do not use a solid water stream as it may scatter or spread fire.

**> Specific Hazards Arising from the Substance or Mixture**

- 1 Flammable: will be easily ignited by heat, sparks or flames.
- 2 Will form explosive mixtures with air.
- 3 Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/or vapour concentration.
- 4 Vapours may travel to source of ignition and flash back.
- 5 Containers may explode when heated.
- 6 Fire exposed containers may vent contents through pressure relief valves.
- 7 May expansion or decompose explosively when heated or involved in fire.

**> Advice for Firefighters**

- 1 As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

**Section 6 Accidental Release Measure**

**> Personal Precautions, Protective Equipment and Emergency Procedures**

- 1 Avoid breathing vapors and contacting with skin and eye.
- 2 Beware of vapours accumulating to form explosive concentrations.
- 3 Vapours can accumulate in low areas.
- 4 Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
- 5 Ensure adequate ventilation. Remove all sources of ignition.
- 6 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 7 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

**> Environmental Precautions**

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

**> Methods and Materials for Containment and Cleaning Up**

- 1 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
- 2 If gas leaks from pressure vessels, evacuate area until all the leaked gas has evaporated.

**Section 7 Handling and Storage****> Precautions for Handling**

- 1 Avoid inhalation of vapors.
- 2 Use only non-sparking tools.
- 3 To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
- 4 Use explosion proof equipment.
- 5 Handling is performed in a well ventilated place.
- 6 Wear suitable protective equipment.
- 7 Avoid contact with skin and eyes.
- 8 Keep away from heat/sparks/open flames/ hot surfaces.
- 9 Take precautionary measures against static discharges.

**> Precautions for Storage**

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/ hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

**Section 8 Exposure Controls/Personal Protection**

**> Control Parameters****Occupational Exposure Limit Values**

| Component                  | Country/Region   | Limit Value - Eight Hours |                   | Limit Value - Short Term |                   |
|----------------------------|------------------|---------------------------|-------------------|--------------------------|-------------------|
|                            |                  | ppm                       | mg/m <sup>3</sup> | ppm                      | mg/m <sup>3</sup> |
| Propylene<br>115-07-1      | Switzerland      | 10000                     | 17500             | -                        | -                 |
|                            | Latvia           | -                         | 100               | -                        | -                 |
|                            | Ireland          | 500                       | -                 | -                        | -                 |
|                            | Denmark          | 100                       | 172               | 200                      | 344               |
|                            | Denmark          | 100                       | 172               | 200                      | 344               |
|                            | Canada - Ontario | 500                       | -                 | -                        | -                 |
| Propane<br>74-98-6         | USA - OSHA       | 1000                      | 1800              | -                        | -                 |
|                            | Switzerland      | 1000                      | 1800              | 4000                     | 7200              |
|                            | New Zealand      | -                         | -                 | -                        | -                 |
|                            | Ireland          | 1000                      | -                 | -                        | -                 |
|                            | Germany (AGS)    | 1000                      | 1800              | 4000                     | 7200              |
|                            | Denmark          | 1000                      | 1800              | 2000                     | 3600              |
|                            | Canada - Québec  | 1000                      | 1800              | -                        | -                 |
|                            | Canada - Ontario | 1000                      | -                 | -                        | -                 |
|                            | Belgium          | 1000                      | -                 | -                        | -                 |
| Dimethyl ether<br>115-10-6 | New Zealand      | 400                       | 766               | 500                      | 958               |
|                            | Latvia           | 1000                      | 1920              | -                        | -                 |
|                            | Ireland          | 1000                      | 1920              | -                        | -                 |
|                            | Germany (AGS)    | 1000                      | 1900              | 8000                     | 15200             |
|                            | Denmark          | 1000                      | 1885              | 2000                     | 3770              |
|                            | Australia        | 400                       | 760               | 500                      | 950               |

**Biological Limit Values**

No information available

**Monitoring Methods**

- 1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- 2 GBZ/T 160 Determination of toxic substances in workplace air(Series effective standard)and GBZ/T 300 Determination of toxic substances in workplace air(Series standard).

**> Engineering Controls**

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.

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## FIREMASTER VEEMAP



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4 Set up emergency exit and necessary risk-elimination area.

### > Personal Protection Equipment

|                                 |  |
|---------------------------------|--|
| <b>Eye Protection</b>           | Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).  |
| <b>Hand Protection</b>          | Wear protective gloves (such as butyl rubber) ,passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.  |
| <b>Respiratory protection</b>   | If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges. |
| <b>Skin and Body Protection</b> | Wear fire/flamm resistant/retardant clothing and antistatic boots.   |

## Section 9 Physical and Chemical Properties

|   |   |
|---|---|
| <b>Appearance:</b> 0.9L gas cylinder, with 400g colorless liquefied gas mixture | <b>Odor:</b> No information available   |
| <b>Odor Threshold:</b> No information available                                 | <b>pH:</b> Not applicable   |
| <b>Melting Point/Freezing Point (°C):</b> No information available              | <b>Initial Boiling Point and Boiling Range (°C):</b> No information available   |
| <b>Flash Point (°C)( Closed Cup):</b> Not applicable                            | <b>Evaporation Rate:</b> Not applicable   |
| <b>Flammability:</b> Flammable  | <b>Upper/lower explosive limits[%(v/v)]:</b> Upper limit: No information available; Lower limit: No information available |
| <b>Vapor Pressure (KPa):</b> Not applicable                                     | <b>Relative Vapour Density(Air=1):</b> Not applicable   |
| <b>Relative Density(Water=1):</b> Not applicable                                | <b>Solubility:</b> No information available   |
| <b>n-Octanol/Water Partition Coefficient:</b> Not applicable                    | <b>Auto-Ignition Temperature(°C):</b> No information available  |
| <b>Decomposition Temperature (°C):</b> No information available                 | <b>Kinematic Viscosity (mm<sup>2</sup>/s):</b> Not applicable   |
| <b>Particle characteristics:</b> Not applicable                                 | <b>Critical Temperature(°C):</b> No information available   |

## Section 10 Stability and Reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | Contact with incompatible substances can cause decomposition or other chemical reactions.   |
| <b>Chemical Stability</b>                 | Stable under proper operation and storage conditions.   |
| <b>Possibility of Hazardous Reactions</b> | Products of the addition reactions with nitrogen dioxide, nitrogen oxides or ammonia which form nitrogen oxides may cause an explosion. In contact with an open flame may cause a fire or explosion. In contact with halogens or interhalogens may cause an explosion . |
| <b>Conditions to Avoid</b>                | Incompatible materials, heat, flame and spark.  |
| <b>Incompatible Materials</b>             | Nitrogen dioxide, nitrogen oxide, ammonia, Oxidantss, halogenated alkanes, and halogen. Oxidantss and halogen. Halogen, halogen compounds, inorganic acid, sulfur, sulfides and sodium peroxide.  |

**Hazardous Decomposition products** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11 Toxicological Information

### > Acute Toxicity

No information available

### > Skin Corrosion/Irritation

No information available

### > Serious Eye Damage/Irritation

No information available

### > Skin Sensitization

No information available

### > Respiratory Sensitization

No information available

### > Germ Cell Mutagenicity

No information available

### > Carcinogenicity

| ID | CAS No.  | Component      | IARC       | NTP        |
|----|----------|----------------|------------|------------|
| 1  | 115-07-1 | Propylene      | Category 3 | Not Listed |
| 2  | 74-98-6  | Propane        | Not Listed | Not Listed |
| 3  | 115-10-6 | Dimethyl ether | Not Listed | Not Listed |

### > Reproductive Toxicity

No information available

### > Reproductive Toxicity (Additional)

No information available

### > STOT-Single Exposure

No information available

### > STOT-Repeated Exposure

No information available

**> Aspiration Hazard**

No information available

**Section 12 Ecological Information****> Acute Aquatic Toxicity**

No information available

**> Chronic Aquatic Toxicity**

No information available

**> Others****Persistence and  
Degradability**

No information available

**Bioaccumulative  
Potential**

No information available

**Mobility in Soil**

No information available

**Results of PBT and  
vPvB Assessment**

Propylene does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Propane does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Dimethyl ether does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

**Section 13 Disposal Considerations****Waste Chemicals  
Contaminated  
Packaging  
Disposal  
Recommendations**

Before disposal should refer to the relevant national and local laws and regulation. Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

Refer to Waste chemicals and Contaminated packaging.

**Section 14 Transport Information****Transporting Label****Marine pollutant**

No

**UN Number**

3161

**UN Proper Shipping**

LIQUEFIED GAS, FLAMMABLE, N.O.S.

**Transport Hazard Class**

2.1

|  |  |
|--|--|
| <b>Transport Subsidiary Hazard Class</b> | NONE   |
| <b>Packing Group</b>                     | The packagings must conform to package instructions of UN number |

## Section 15 Regulatory Information

### > International Chemical Inventory

| Component      | EINECS | TSCA | DSL | IECSC | NZIoC | PICCS | KECI | AICS | ENCS |
|----------------|--------|------|-----|-------|-------|-------|------|------|------|
| Propylene      | √      | √    | √   | √     | √     | √     | √    | √    | √    |
| Propane        | √      | √    | √   | √     | √     | √     | √    | √    | √    |
| Dimethyl ether | √      | √    | √   | √     | √     | √     | √    | √    | √    |

**[EINECS]** European Inventory of Existing Commercial Chemical Substances.

**[TSCA]** United States Toxic Substances Control Act Inventory.

**[DSL]** Canadian Domestic Substances List.

**[IECSC]** China Inventory of Existing Chemical Substances.

**[NZIoC]** New Zealand Inventory of Chemicals.

**[PICCS]** Philippines Inventory of Chemicals and Chemical Substances.

**[KECI]** Existing and Evaluated Chemical Substances.

**[AICS]** Australia Inventory of Chemical Substances.

**[ENCS]** Existing And New Chemical Substances.

#### Note

“√” Indicates that the substance included in the regulations

“x” That no data or included in the regulations

## Section 16 Additional Information

|                            |            |
|----------------------------|------------|
| <b>Creation Date</b>       | Jun.6,2023 |
| <b>Revision Date</b>       | Dec.5,2023 |
| <b>Reason for Revision</b> | -          |

### > Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 9th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

## **Terms of the Using of the Report**

1. The report is issued by CCIC according to the information of the chemicals and the information of its shipping provided by the applicant (shipper or his agent).
2. According to the demand of this SDS, CCIC requires the applicant to provide true and exact sample and data.
3. Information from applicant is the key of this SDS, so CCIC will not respond for the wrong of applicant.
4. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
5. This report will be effective only after it is signed by the inspector, approver and stamped by CCIC.
6. CCIC guarantees the objectivity and fairness of this report, and carries out confidentiality obligations on business secrets such as business information, technical documents and so on.
7. The partly duplicating of this report is prohibited without the written approver of CCIC.
8. The report is invalid when anything of the following happens-illegal transfer, embezzlement, imposture, modification or tampering in any media form.
9. The authenticity of the certificate can be checked by scan the security code of this certificate.