

# Perfluoro(2-methylpentane) Apollo Scientific

Part Number: **PC6122L** Version No: **2.2** Safety Data Sheet Chemwatch Hazard Alert Code: 2

Issue Date: **11/07/2023** Print Date: **11/07/2023** S.GHS.GB-NIR.EN

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

### **Product Identifier**

| Product name                     | Perfluoro(2-methylpentane) |
|----------------------------------|----------------------------|
| Chemical Name                    | perfluoro-2-methylpentane  |
| Synonyms                         | Not Available              |
| Chemical formula                 | C6-F14                     |
| Other means of<br>identification | Not Available              |
| CAS number                       | 355-04-4*                  |

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Not

s Not Available

# Details of the manufacturer or supplier of the safety data sheet

| Registered company name | Apollo Scientific                               | Apollo Scientific Itd   |
|-------------------------|---|---|
| Address                 | Whitefield Road, Bredbury SK62QR United Kingdom | Whitefield Road, Bredbury Cheshire SK6 2QR United<br>Kingdom (NI) |
| Telephone               | 01614060505                                     | +44(0) 161 406 0505   |
| Fax                     | 0161 406 0506                                   | Not Available   |
| Website                 | http://www.apolloscientific.co.uk/              | apolloscientific.co.uk  |
| Email                   | sales@apolloscientific.co.uk                    | sales@apolloscientific.co.uk                                      |

# Emergency telephone number

| Association / Organisation        | Not Available |
|-----------------------------------|---------------|
| Emergency telephone<br>numbers    | Not Available |
| Other emergency telephone numbers | Not Available |

# **SECTION 2 Hazards identification**

# Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments <sup>[1]</sup>

H336 - Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, H335 - Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, H315 - Skin Corrosion/Irritation Category 2, H319 - Serious Eye Damage/Eye Irritation Category 2, H410 - Hazardous to the Aquatic Environment Long-Term Hazard Category 1

Legend: 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

# Label elements

| Hazard pictogram(s) |         |
|---------------------|---------|
|                     |         |
| Signal word         | Warning |

# Hazard statement(s)

| H336 | May cause drowsiness or dizziness.                    |  |
|------|---|--|
| H335 | May cause respiratory irritation.                     |  |
| H315 | Causes skin irritation.                               |  |
| H319 | Causes serious eye irritation.                        |  |
| H410 | Very toxic to aquatic life with long lasting effects. |  |

### Precautionary statement(s) Prevention

| P271 | Use only outdoors or in a well-ventilated area.                                  |  |
|------|--|--|
| P261 | Avoid breathing mist/vapours/spray.  |  |
| P273 | Avoid release to the environment.  |  |
| P280 | Wear protective gloves, protective clothing, eye protection and face protection. |  |
| P264 | Wash all exposed external body areas thoroughly after handling.                  |  |

# Precautionary statement(s) Response

| IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
|--|
| Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.  |
| If eye irritation persists: Get medical advice/attention.  |
| Collect spillage.  |
| IF ON SKIN: Wash with plenty of water.   |
| IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| If skin irritation occurs: Get medical advice/attention.   |
| Take off contaminated clothing and wash it before reuse.   |
|  |

### Precautionary statement(s) Storage

| P405      | Store locked up.   |
|-----------|--|
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |

### Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

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

#### Substances

| CAS No    | %[weight] | Name                           | Classification according to regulation (EC) No 1272/2008 [CLP] and amendments   | SCL /<br>M-Factor |
|-----------|-----------|--------------------------------|---|-------------------|
| 355-04-4* | 100       | Perfluoro(2-<br>methylpentane) | Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category<br>3, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract<br>Irritation) Category 3, Skin Corrosion/Irritation Category 2, Serious Eye<br>Damage/Eye Irritation Category 2, Hazardous to the Aquatic Environment<br>Long-Term Hazard Category 1; H336, H335, H315, H319, H410 <sup>[1]</sup> | Not<br>Available  |

Legend: 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L; \* EU IOELVs available; [e] Substance identified as having endocrine disrupting properties

See section above for composition of Substances

### **SECTION 4 First aid measures**

### Description of first aid measures

| Eye Contact  | <ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul> |
|--------------|---|
| Skin Contact | If skin or hair contact occurs: <ul> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>   |
| Inhalation   | <ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>   |
| Ingestion    | <ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>   |

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5 Firefighting measures**

#### Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

#### Special hazards arising from the substrate or mixture

|        | Fire Incompatibility | None known.  |
|--------|----------------------|--|
| Advice | for firefighters     |  |
|        |                      | <ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> </ul> |

| Prevent, by any means available, spillage from entering drains or wat | er courses |
|---|------------|
|---|------------|

- Use fire fighting procedures suitable for surrounding area. Fire Fighting
  - DO NOT approach containers suspected to be hot.
    - Cool fire exposed containers with water spray from a protected location.
  - If safe to do so, remove containers from path of fire.
    - Equipment should be thoroughly decontaminated after use.

| Fire/Explosion Hazard | <ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul> |
|-----------------------|--|
|-----------------------|--|

# **SECTION 6 Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

See section 8

# **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

**Minor Spills** 

Environmental hazard - contain spillage.

|              | <ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>   |
|--------------|--|
| Major Spills | <ul> <li>Environmental hazard - contain spillage.</li> <li>Moderate hazard.</li> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Stop leak if safe to do so.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Neutralise/decontaminate residue (see Section 13 for specific agent).</li> <li>Collect solid residues and seal in labelled drums for disposal.</li> <li>Wash area and prevent runoff into drains.</li> <li>After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul> |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# **SECTION 7 Handling and storage**

# Precautions for safe handling

# Conditions for safe storage, including any incompatibilities

| Suitable container      | <ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul> |
|-------------------------|---|
| Storage incompatibility | None known  |

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

# **Control parameters**

Occupational Exposure Limits (OEL)

# INGREDIENT DATA

Not Available

**Emergency Limits** 

### Ingredient

TEEL-1

TEEL-2

TEEL-3

| Ingredient                 | TEEL-1  | TEEL-2        |                                  | TEEL-3        |
|----------------------------|---|---------------|----------------------------------|---------------|
| Perfluoro(2-methylpentane) | Not Available   | Not Available |                                  | Not Available |
|                            |   |               |                                  | I             |
| Ingredient                 | Original IDLH   |               | Revised IDLH                     |               |
| Perfluoro(2-methylpentane) | Not Available   |               | Not Available                    |               |
| Occupational Exposure Ban  | ding  |               |                                  |               |
| Ingredient                 | Occupational Exposure Band Rating   |               | Occupational Exposure Band Limit |               |
| Perfluoro(2-methylpentane) | E   |               | ≤ 0.1 ppm                        |               |
| Notes:                     | Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's |               |                                  |               |

potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

|                         | Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed<br>engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to<br>provide this high level of protection.<br>The basic types of engineering controls are:<br>Process controls which involve changing the way a job activity or process is done to reduce the risk.<br>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation<br>that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if<br>designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.<br>Employers may need to use multiple types of controls to prevent employee overexposure.<br>General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific<br>circumstances. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection.<br>Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess<br>varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove<br>the contaminant. |  |  |  |
|-------------------------|--|--|--|--|
|                         | Type of Contaminant:   |  | Air Speed:   |  |
|                         | solvent, vapours, degreasing etc., evaporating from tank   | 0.25-0.5 m/s<br>(50-100 f/min)   |  |  |
| Appropriate engineering | aerosols, fumes from pouring operations, intermittent con<br>welding, spray drift, plating acid fumes, pickling (released  |  |  |  |
| controls                | direct spray, spray painting in shallow booths, drum filling (active generation into zone of rapid air motion)   | a discharge 1-2.5 m/s (200-500 f/min.)   |  |  |
|                         | grinding, abrasive blasting, tumbling, high speed wheel go<br>into zone of very high rapid air motion).  | l velocity 2.5-10 m/s<br>(500-2000 f/min.)   |  |  |
|                         | Within each range the appropriate value depends on:  |  |  |  |
|                         | Lower end of the range   | Upper end of the range   |  |  |
|                         | 1: Room air currents minimal or favourable to capture  | 1: Disturbing room air currents  |  |  |
|                         | 2: Contaminants of low toxicity or of nuisance value only.   | 2: Contaminants of high toxicity   |  |  |
|                         | 3: Intermittent, low production.   | 3: High production, heavy use  |  |  |
|                         | 4: Large hood or large air mass in motion  | 4: Small hood-local control only   |  |  |
|                         | Simple theory shows that air velocity falls rapidly with dista<br>generally decreases with the square of distance from the e<br>extraction point should be adjusted, accordingly, after refer<br>extraction fan, for example, should be a minimum of 1-2 m<br>meters distant from the extraction point. Other mechanical<br>apparatus, make it essential that theoretical air velocities a<br>installed or used.   | extraction point (in simple cases). Then<br>rence to distance from the contamination<br>/s (200-400 f/min) for extraction of solv<br>considerations, producing performance | refore the air speed at the<br>ing source. The air velocity at the<br>vents generated in a tank 2<br>ce deficits within the extraction |  |
| Individual protection   |  |  |  |  |

Individual protection measures, such as personal protective equipment



- Safety glasses with side shields.
- Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]

Eye and face protection

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.

|                       | Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the<br>event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should<br>be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers<br>have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].  |
|-----------------------|--|
| Skin protection       | See Hand protection below  |
| Hands/feet protection | The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygine is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: I requency and duration of contact, ender the divert the selection of gloves include: I requency and duration of contact. (I we thickness and ender thoroughly. Application of a non-perfumed moisturiser is recommended. I we the material part durability of glove type is dependent on usage. Important factors in the selection of gloves include: I requency and duration of contact. (I we thickness and ender glove that and a contact may occur. a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, ASIN25 2161.10.1 or national equivalent) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, ASIN25 2161.10.1 or national equivalent) is recommended. I contannel equivalent is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. I contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are rated as: Excellent when breakthrough time < 20 min application, gloves with a thickness typically greater than 0.35 mm, are recom |
| Body protection       | See Other protection below   |
| Other protection      | <ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>   |

# **SECTION 9** Physical and chemical properties

# Information on basic physical and chemical properties

| Appearance       | Not Available |  |               |
|------------------|---------------|--|---------------|
|                  |               |  |               |
| Physical state   | Liquid        | Relative density (Water =<br>1)            | Not Available |
| Odour            | Not Available | Partition coefficient<br>n-octanol / water | Not Available |
| Odour threshold  | Not Available | Auto-ignition temperature<br>(°C)          | Not Available |
| pH (as supplied) | Not Available | Decomposition<br>temperature (°C)          | Not Available |

| Melting point / freezing<br>point (°C)          | <-150         | Viscosity (cSt)                     | Not Available |
|---|---------------|-------------------------------------|---------------|
| Initial boiling point and<br>boiling range (°C) | 58.2          | Molecular weight (g/mol)            | Not Available |
| Flash point (°C)                                | Not Available | Taste                               | Not Available |
| Evaporation rate                                | Not Available | Explosive properties                | Not Available |
| Flammability                                    | Not Available | Oxidising properties                | Not Available |
| Upper Explosive Limit (%)                       | Not Available | Surface Tension (dyn/cm<br>or mN/m) | Not Available |
| Lower Explosive Limit (%)                       | Not Available | Volatile Component (%vol)           | Not Available |
| Vapour pressure (kPa)                           | Not Available | Gas group                           | Not Available |
| Solubility in water                             | Not Available | pH as a solution (1%)               | Not Available |
| Vapour density (Air = 1)                        | Not Available | VOC g/L                             | Not Available |

# **SECTION 10 Stability and reactivity**

| Reactivity                          | See section 7  |
|-------------------------------------|--|
| Chemical stability                  | <ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul> |
| Possibility of hazardous reactions  | See section 7  |
| Conditions to avoid                 | See section 7  |
| Incompatible materials              | See section 7  |
| Hazardous decomposition<br>products | See section 5  |

# **SECTION 11 Toxicological information**

# Information on toxicological effects

| Inhaled      | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.<br>Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.<br>Material is highly volatile and may quickly form a concentrated atmosphere in confined or unventilated areas. The vapour may displace and replace air in breathing zone, acting as a simple asphyxiant. This may happen with little warning of overexposure.<br>The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting consider control of exposure by mechanical ventilation. |
|--------------|--|
| Ingestion    | The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.   |
| Skin Contact | The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.<br>Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.   |
| Eye          | This material can cause eye irritation and damage in some persons.   |
| Chronic      | Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.   |

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Perfluoro(2-methylpentane)

Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

| × | Carcinogenicity          | × | Acute Toxicity                       |
|---|--------------------------|---|--------------------------------------|
| × | Reproductivity           | × | Skin Irritation/Corrosion            |
| * | STOT - Single Exposure   | * | Serious Eye<br>Damage/Irritation     |
| × | STOT - Repeated Exposure | × | Respiratory or Skin<br>sensitisation |
| × | Aspiration Hazard        | × | Mutagenicity                         |

Legend: X − Data either not available or does not fill the criteria for classification ✓ − Data available to make classification

# **SECTION 12 Ecological information**

### Toxicity

 Legend:
 Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity

 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) 

 Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

**DO NOT** discharge into sewer or waterways.

### Persistence and degradability

| Ingredient                 | Persistence: Water/Soil | Persistence: Air |
|----------------------------|-------------------------|------------------|
| Perfluoro(2-methylpentane) | HIGH                    | HIGH             |

### **Bioaccumulative potential**

| Ingredient                 | Bioaccumulation        |  |
|----------------------------|------------------------|--|
| Perfluoro(2-methylpentane) | HIGH (LogKOW = 5.3147) |  |

### Mobility in soil

| Ingredient                 | Mobility           |
|----------------------------|--------------------|
| Perfluoro(2-methylpentane) | LOW (KOC = 102400) |

### **SECTION 13 Disposal considerations**

| Waste treatment methods         |   |  |  |
|---------------------------------|---|--|--|
| Product / Packaging<br>disposal | Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws<br>operating in their area. In some areas, certain wastes must be tracked.<br>A Hierarchy of Controls seems to be common - the user should investigate:<br>Reduction<br>Reuse<br>Recycling<br>Disposal (if all else fails)<br>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it<br>has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life<br>considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and<br>recycling or reuse may not always be appropriate.<br>DO NOT allow wash water from cleaning or process equipment to enter drains.<br>It may be necessary to collect all wash water for treatment before disposal.<br>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.<br>Where in doubt contact the responsible authority.<br>Recycle wherever possible.<br>Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable<br>treatment or disposal facility can be identified. |  |  |

| Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material). |
|--|
| <ul> <li>Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.</li> </ul>   |

### **SECTION 14 Transport information**

#### Labels Required

Marine Pollutant



### Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

# Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

# Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

# Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

### Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name               | Group         |
|----------------------------|---------------|
| Perfluoro(2-methylpentane) | Not Available |

#### Transport in bulk in accordance with the IGC Code

| Product name | Ship Type     |
|--------------|---------------|
|              | Not Available |

### **SECTION 15 Regulatory information**

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

### Perfluoro(2-methylpentane) is found on the following regulatory lists

Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

### **National Inventory Status**

| National Inventory                                 | Status                          |  |  |
|--|---------------------------------|--|--|
| Australia - AIIC / Australia<br>Non-Industrial Use | No (Perfluoro(2-methylpentane)) |  |  |
| Canada - DSL                                       | No (Perfluoro(2-methylpentane)) |  |  |
| Canada - NDSL                                      | No (Perfluoro(2-methylpentane)) |  |  |
| China - IECSC                                      | Yes                             |  |  |
| Europe - EINEC / ELINCS /<br>NLP                   | Yes                             |  |  |
| Japan - ENCS                                       | Yes                             |  |  |
| Korea - KECI                                       | No (Perfluoro(2-methylpentane)) |  |  |
| New Zealand - NZIoC                                | No (Perfluoro(2-methylpentane)) |  |  |
| Philippines - PICCS                                | No (Perfluoro(2-methylpentane)) |  |  |
| USA - TSCA   | No (Perfluoro(2-methylpentane)) |  |  |
| Taiwan - TCSI                                      | Yes                             |  |  |
| Mexico - INSQ                                      | No (Perfluoro(2-methylpentane)) |  |  |
| Vietnam - NCI                                      | No (Perfluoro(2-methylpentane)) |  |  |
| Russia - FBEPH                                     | No (Perfluoro(2-methylpentane)) |  |  |

| National Inventory | Status   |  |
|--------------------|--|--|
| Legend:            | Yes = All CAS declared ingredients are on the inventory<br>No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require<br>registration. |  |

### **SECTION 16 Other information**

| Revision Date | 11/07/2023 |
|---------------|------------|
| Initial Date  | 11/07/2023 |

# **SDS Version Summary**

| Version | Date of<br>Update | Sections Updated   |
|---------|-------------------|--|
| 1.2     | 11/07/2023        | Toxicological information - Acute Health (inhaled), Toxicological information - Acute Health (skin), CAS Number, Hazards identification - Classification, Ecological Information - Environmental, Firefighting measures - Fire Fighter (fire/explosion hazard), Composition / information on ingredients - Ingredients, Korean MSDS Number, Accidental release measures - Spills (major), Accidental release measures - Spills (minor), Identification of the substance / mixture and of the company / undertaking - Supplier Information, Identification of the substance / mixture and of the company / undertaking - Synonyms |

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

# **Definitions and abbreviations**

PC - TWA: Permissible Concentration-Time Weighted Average PC - STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit. IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value **BCF: BioConcentration Factors BEI: Biological Exposure Index** AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

| Classification according to<br>regulation (EC) No<br>1272/2008 [CLP] and<br>amendments                    | Classification Procedure |
|---|--------------------------|
| Specific Target Organ<br>Toxicity - Single Exposure<br>(Narcotic Effects) Category<br>3, H336             | Calculation method       |
| Specific Target Organ<br>Toxicity - Single Exposure<br>(Respiratory Tract Irritation)<br>Category 3, H335 | Expert judgement         |
| Skin Corrosion/Irritation<br>Category 2, H315   | Expert judgement         |
| Serious Eye Damage/Eye<br>Irritation Category 2, H319   | Expert judgement         |
| Hazardous to the Aquatic<br>Environment Long-Term<br>Hazard Category 1, H410                              | Calculation method       |

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