

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** 10721795, 10721804 - FIX-R EPDM Sprayable Bonding Adhesive 14L & 22L Canister
- Other means of identification:**
Not relevant
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant uses (Professional users): Adhesive
For Professional users only.
Not for Consumer Use.
This product is not to be used for carpet laying.
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**
FIX-R
Harding Way
PE27 3YJ St Ives - Cambridgeshire - United Kingdom
Phone: +44 (0) 1480 466 777
sigassured@sigplc.com
www.fix-r.co.uk
- 1.4 Emergency telephone number:** +44 (0) 1274 696979 (Monday - Friday 8am - 5pm GMT)

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):
Classification of this product has been carried out in accordance with GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567).
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411
Eye Irrit. 2: Eye irritation, Category 2, H319
Flam. Gas 1A: Flammable gases, Category 1A, H220
Press. Gas: Pressure Gases, H280
Skin Irrit. 2: Skin irritation, Category 2, H315
STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336
- 2.2 Label elements:**
GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):
Danger
- 



- Hazard statements:**
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Gas 1A: H220 - Extremely flammable gas.
Press. Gas: H280 - Contains gas under pressure, may explode if heated.
Skin Irrit. 2: H315 - Causes skin irritation.
STOT SE 3: H336 - May cause drowsiness or dizziness.
- Precautionary statements:**

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SECTION 2: HAZARDS IDENTIFICATION (continued)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261: Avoid breathing gas
P264: Wash thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P377: Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381: Eliminate all ignition sources if safe to do so.
P391: Collect spillage.
P403: Store in a well-ventilated place.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.
P410+P403: Protect from sunlight. Store in a well-ventilated place.
P501: Dispose of the contents and/or its container in line with regulations on dangerous waste or packaging and waste packaging respectively.

Supplementary information:

EUH208: Contains tris(nonylphenyl) phosphite. May produce an allergic reaction.

Substances that contribute to the classification

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane; acetone (CAS: 67-64-1); Butanone (CAS: 78-93-3)

2.3 Other hazards:

Product does not meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Not relevant

3.2 Mixture:

Chemical description: Mixture of substances

Components:

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

| Identification | Chemical name/Classification | Concentration |
|--|---|---|
| CAS: 115-10-6 EC: 204-065-8 REACH: 01-2119472128-37-XXXX | Dimethyl ether Flam. Gas 1A: H220; Press. Gas: H280 - Danger |   40 - <50% |
| CAS: Not relevant EC: 921-024-6 REACH: 01-2119475514-35-XXXX | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 2: H225; Skin Irrit. 2: H315; STOT SE 3: H336 - Danger |     20 - <30% |
| CAS: 67-64-1 EC: 200-662-2 REACH: 01-2119471330-49-XXXX | acetone Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger |   5 - <10% |
| CAS: 78-93-3 EC: 201-159-0 REACH: 01-2119457290-43-XXXX | Butanone Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger |   5 - <10% |
| CAS: 26523-78-4 EC: 247-759-6 REACH: 01-2119520601-54-XXXX | tris(nonylphenyl) phosphite Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Sens. 1: H317 - Warning |   0.1 - <1% |
| CAS: 14726-36-4 EC: 238-778-0 REACH: 01-2119543708-31-XXXX | Zinc bis(dibenzylidithiocarbamate) | 0.1 - <1% |

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

In case the skin is affected (stinging, redness, rashes, blisters, ...), seek medical help. Contact with rapidly expanding gas may cause burns or frostbite.

By eye contact:

Rinse cautiously with water for several minutes. Contact with rapidly expanding gas may cause burns or frostbite.

By ingestion/aspiration:

It is not considered a potential route of exposure.

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

A high level of exposure can lead to suffocation due to oxygen deprivation. Symptoms may include loss of mobility or consciousness. It is important to note that the victim may not be aware of the suffocation. Suffocation can occur suddenly and rapidly, without any warning, leaving individuals unable to take protective measures.

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

Not relevant

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Unsuitable extinguishing media:

Water jet

5.2 Special hazards arising from the substance or mixture:

Exposure to fire may cause containers to rupture/explode.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and Self Contained Breathing Apparatus. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit, ...)

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Try to stop release if there is no additional risk for the people performing this task.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Try to stop release if there is no additional risk for the people performing this task.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Use water spray to reduce vapors and/or divert the vapor cloud. Try to stop the release if there is no additional risk to the persons performing this task. Evacuate and isolate the area until the gas has dispersed.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

SAFE USE OF THE PRODUCT: Do not breathe gas. Avoid release of product into atmosphere. The product must be handled in accordance with good industrial hygiene and safety procedures. Only experienced and properly instructed persons should handle gases under pressure. Consider pressure relief device(s) in gas installations. Ensure the complete gas system was (or is regularly) checked for leaks before use. Do not smoke while handling product. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.

SAFE HANDLING OF THE GAS RECEPTABLE: Refer to supplier's container handling instructions. Do not allow backfeed into the container. Protect containers from physical damage; do not drag, roll, slide or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use. If user experiences any difficulty operating valve discontinue use and contact supplier. Never attempt to repair or modify container valves or safety relief devices. Damaged valves should be reported immediately to the supplier. Keep container valve outlets clean and free from contaminants particularly oil and water. Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment. Close container valve after each use and when empty, even if still connected to equipment. Never attempt to transfer gases from one cylinder/container to another. Never use direct flame or electrical heating devices to raise the pressure of a container. Suck back of water into the container must be prevented. Open valve slowly to avoid pressure shock.

B.- Technical recommendations for the prevention of fires and explosions

Control all ignition sources and ventilate during cleaning operations. Use only non-sparking tools. No smoking. Ensure that the gas system (including the container) is regularly checked to avoid leaks. Take measures to avoid hazardous atmospheres in confined spaces (inerting, etc...). Prevent the accumulation of electrostatic charges by adopting the necessary measures (grounding, equipotential connections, use slow speeds in transfers, wear appropriate clothing, etc.). Comply with the essential security requirements for equipment and systems and with the minimum requirements for protecting the security and health of workers. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Store in a well-ventilated place. Keep container tightly closed.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Containers should not be stored near oxidizing substances, and mechanical ventilation is required in indoor storage areas. It is important to avoid ignition sources. Containers should be stored in the vertical position and properly secured to prevent them from falling over or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see section 10 of the SDS).

Other information:

Storage Temperature: Between 5°C and 25°C

7.3 Specific end use(s):

See Section 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Substances whose occupational exposure limits have to be assessed in the workplace:

EH40/2005 Workplace exposure limits, fourth edition, published 2020:

| Identification | Occupational exposure limits | | |
|---------------------------------|------------------------------|----------|------------------------|
| | WEL (8h) | 400 ppm | 766 mg/m ³ |
| Dimethyl ether CAS: 115-10-6 | WEL (15 min) | 500 ppm | 958 mg/m ³ |
| | WEL (8h) | 500 ppm | 1210 mg/m ³ |
| acetone CAS: 67-64-1 | WEL (15 min) | 1500 ppm | 3620 mg/m ³ |
| | WEL (8h) | 200 ppm | 600 mg/m ³ |
| Butanone CAS: 78-93-3 | WEL (15 min) | 300 ppm | 899 mg/m ³ |

Biological limit values:

BIOLOGICAL MONITORING GUIDANCE VALUES (BMGVs) - EH40/2005

| Identification | NULL | NULL | NULL |
|--------------------------|--------|----------------------|------------|
| Butanone CAS: 78-93-3 | 5 mg/L | Butan-2-one in urine | Post shift |

DNEL (Workers):

| Identification | | Short exposure | | Long exposure | |
|---|------------|-----------------------|------------------------|------------------------|--------------|
| | | Systemic | Local | Systemic | Local |
| Dimethyl ether CAS: 115-10-6 EC: 204-065-8 | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| | Dermal | Not relevant | Not relevant | Not relevant | Not relevant |
| | Inhalation | Not relevant | Not relevant | 1894 mg/m ³ | Not relevant |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS: Not relevant EC: 921-024-6 | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| | Dermal | Not relevant | Not relevant | 773 mg/kg | Not relevant |
| | Inhalation | Not relevant | Not relevant | 2035 mg/m ³ | Not relevant |
| acetone CAS: 67-64-1 EC: 200-662-2 | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| | Dermal | Not relevant | Not relevant | 186 mg/kg | Not relevant |
| | Inhalation | Not relevant | 2420 mg/m ³ | 1210 mg/m ³ | Not relevant |
| Butanone CAS: 78-93-3 EC: 201-159-0 | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| | Dermal | Not relevant | Not relevant | 1161 mg/kg | Not relevant |
| | Inhalation | 900 mg/m ³ | Not relevant | 600 mg/m ³ | Not relevant |
| tris(nonylphenyl) phosphite CAS: 26523-78-4 EC: 247-759-6 | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| | Dermal | Not relevant | Not relevant | 16.7 mg/kg | Not relevant |
| | Inhalation | Not relevant | Not relevant | 23.6 mg/m ³ | Not relevant |
| Zinc bis(dibenzylthiocarbamate) CAS: 14726-36-4 EC: 238-778-0 | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| | Dermal | Not relevant | Not relevant | 1000 mg/kg | Not relevant |
| | Inhalation | Not relevant | Not relevant | 7 mg/m ³ | Not relevant |

DNEL (General population):

| Identification | | Short exposure | | Long exposure | |
|---|------------|-----------------------|--------------|-----------------------|--------------|
| | | Systemic | Local | Systemic | Local |
| Dimethyl ether CAS: 115-10-6 EC: 204-065-8 | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| | Dermal | Not relevant | Not relevant | Not relevant | Not relevant |
| | Inhalation | Not relevant | Not relevant | 471 mg/m ³ | Not relevant |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS: Not relevant EC: 921-024-6 | Oral | Not relevant | Not relevant | 699 mg/kg | Not relevant |
| | Dermal | Not relevant | Not relevant | 699 mg/kg | Not relevant |
| | Inhalation | Not relevant | Not relevant | 608 mg/m ³ | Not relevant |
| acetone CAS: 67-64-1 EC: 200-662-2 | Oral | Not relevant | Not relevant | 62 mg/kg | Not relevant |
| | Dermal | Not relevant | Not relevant | 62 mg/kg | Not relevant |
| | Inhalation | Not relevant | Not relevant | 200 mg/m ³ | Not relevant |
| Butanone CAS: 78-93-3 EC: 201-159-0 | Oral | Not relevant | Not relevant | 31 mg/kg | Not relevant |
| | Dermal | Not relevant | Not relevant | 412 mg/kg | Not relevant |
| | Inhalation | 450 mg/m ³ | Not relevant | 106 mg/m ³ | Not relevant |

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Identification | | Short exposure | | Long exposure | |
|--|------------|----------------|--------------|------------------------|--------------|
| | | Systemic | Local | Systemic | Local |
| tris(nonylphenyl) phosphite CAS: 26523-78-4 EC: 247-759-6 | Oral | Not relevant | Not relevant | 1.67 mg/kg | Not relevant |
| | Dermal | Not relevant | Not relevant | 8.35 mg/kg | Not relevant |
| | Inhalation | Not relevant | Not relevant | 11.8 mg/m ³ | Not relevant |
| Zinc bis(dibenzylidithiocarbamate) CAS: 14726-36-4 EC: 238-778-0 | Oral | Not relevant | Not relevant | 1 mg/kg | Not relevant |
| | Dermal | Not relevant | Not relevant | 600 mg/kg | Not relevant |
| | Inhalation | Not relevant | Not relevant | 2 mg/m ³ | Not relevant |

PNEC:

| Identification | | Short exposure | | Long exposure | |
|--|--------------|----------------|-------------------------|---------------|-------|
| | | Systemic | Local | Systemic | Local |
| Dimethyl ether CAS: 115-10-6 EC: 204-065-8 | STP | 160 mg/L | Fresh water | 0.155 mg/L | |
| | Soil | 0.045 mg/kg | Marine water | 0.016 mg/L | |
| | Intermittent | 1.549 mg/L | Sediment (Fresh water) | 0.681 mg/kg | |
| | Oral | Not relevant | Sediment (Marine water) | 0.069 mg/kg | |
| acetone CAS: 67-64-1 EC: 200-662-2 | STP | 100 mg/L | Fresh water | 10.6 mg/L | |
| | Soil | 29.5 mg/kg | Marine water | 1.06 mg/L | |
| | Intermittent | 21 mg/L | Sediment (Fresh water) | 30.4 mg/kg | |
| | Oral | Not relevant | Sediment (Marine water) | 3.04 mg/kg | |
| tris(nonylphenyl) phosphite CAS: 26523-78-4 EC: 247-759-6 | STP | 1.8 mg/L | Fresh water | 0.05 mg/L | |
| | Soil | Not relevant | Marine water | 0.05 mg/L | |
| | Intermittent | 0.05 mg/L | Sediment (Fresh water) | 0.15 mg/kg | |
| | Oral | 0.037 g/kg | Sediment (Marine water) | 0.15 mg/kg | |
| Zinc bis(dibenzylidithiocarbamate) CAS: 14726-36-4 EC: 238-778-0 | STP | 100 mg/L | Fresh water | Not relevant | |
| | Soil | Not relevant | Marine water | Not relevant | |
| | Intermittent | Not relevant | Sediment (Fresh water) | Not relevant | |
| | Oral | 0.00456 g/kg | Sediment (Marine water) | Not relevant | |

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

Ensure both general and local ventilation are provided, with an appropriate air renewal frequency to keep exposures below recommended limits. If no limits are established, maintain contaminants at acceptable levels. Select personal protective equipment based on risk analysis and consult with your personal protective equipment provider as needed. Make sure that personal protective equipment complies with current regulations. Periodically check containers for leaks, and consider using gas detectors when gases could potentially be released into the environment.

B.- Respiratory protection

| Pictogram | PPE | Remarks |
|---|-----------------------------------|--|
|  Mandatory respiratory tract protection | Filter mask for gases and vapours | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |

Gas filters may be used if all surrounding conditions are known (e.g. type and concentration of the contaminant(s) and duration of use,...).

Use gas filters with full face mask, where exposure limits may be exceeded for a short-term period, e.g. connecting or disconnecting containers.

Gas filters do not protect against oxygen deficiency, in that case a Self Contained Breathing Apparatus should be used.

C.- Specific protection for the hands

| Pictogram | PPE | Remarks |
|--|---|--|
|  Mandatory hand protection | Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm) | Replace the gloves at any sign of deterioration. |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Pictogram | PPE | Remarks |
|--|---|---|
|  Mandatory face protection | Panoramic glasses against splash/projections. | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

E.- Body protection

| Pictogram | PPE | Remarks |
|---|---|---|
|  Mandatory complete body protection | Antistatic and fireproof protective clothing | Limited protection against flames. |
|  Mandatory foot protection | Safety footwear with antistatic and heat resistant properties | Replace boots at any sign of deterioration. |

F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

| Emergency measure | Standards | Emergency measure | Standards |
|--|---|---|--|
|  Emergency shower | ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011 |  Eyewash stations | DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 |

Environmental exposure controls:

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012:

| | |
|--------------------------|---------------|
| V.O.C. (Supply): | 99.5 % weight |
| V.O.C. density at 20 °C: | Not relevant |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

| | |
|--------------------------|----------------|
| Physical state at 20 °C: | Gas |
| Appearance: | Not relevant * |
| Colour: | Green |
| Odour: | Characteristic |
| Odour threshold: | Not relevant * |

Volatility:

| | |
|--|----------------|
| Boiling point at atmospheric pressure: | Not relevant * |
| Vapour pressure at 20 °C: | Not relevant * |
| Vapour pressure at 50 °C: | Not relevant * |
| Evaporation rate at 20 °C: | Not relevant * |

Product description:

| | |
|----------------------------|----------------|
| Density at 20 °C: | Not relevant * |
| Relative density at 20 °C: | 0.82 |

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

| | |
|--|----------------|
| Dynamic viscosity at 20 °C: | 50 mPa·s |
| Kinematic viscosity at 20 °C: | Not relevant * |
| Kinematic viscosity at 40 °C: | Not relevant * |
| Concentration: | Not relevant * |
| pH: | Not relevant * |
| Vapour density at 20 °C: | 2.4 (Air = 1) |
| Partition coefficient n-octanol/water 20 °C: | Not relevant * |
| Solubility in water at 20 °C: | Not relevant * |
| Solubility properties: | Not relevant * |
| Decomposition temperature: | Not relevant * |
| Melting point/freezing point: | Not relevant * |

Flammability:

| | |
|----------------------------|-------------------------------|
| Flash Point: | -41 °C |
| Flammability (solid, gas): | H220 Extremely flammable gas. |
| Autoignition temperature: | Not relevant * |
| Lower flammability limit: | Not relevant * |
| Upper flammability limit: | Not relevant * |

Particle characteristics:

| | |
|-----------------------------|----------------|
| Median equivalent diameter: | Not relevant * |
|-----------------------------|----------------|

9.2 Other information:

Information with regard to physical hazard classes:

| | |
|--|----------------|
| Explosive properties: | Not relevant * |
| Oxidising properties: | Not relevant * |
| Corrosive to metals: | Not relevant * |
| Heat of combustion: | Not relevant * |
| Aerosols-total percentage (by mass) of flammable components: | Not relevant * |

Other safety characteristics:

| | |
|--|----------------|
| Surface tension at 20 °C: | Not relevant * |
| Refraction index: | Not relevant * |
| Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level. | |

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight | Humidity |
|---------------------|------------------|-------------------------|---------------------|----------------|
| Danger of explosion | Precaution | Danger of explosion | Avoid direct impact | Not applicable |

10.5 Incompatible materials:

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SECTION 10: STABILITY AND REACTIVITY (continued)

| Acids | Water | Oxidising materials | Combustible materials | Others |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable | Avoid alkalis or strong bases |

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Causes serious eye irritation.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
IARC: Not relevant
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Not relevant

Specific toxicology information on the substances:

| Identification | Acute toxicity | | Genus |
|---|------------------------|------------------|--------|
| Dimethyl ether CAS: 115-10-6 EC: 204-065-8 | LD50 oral | >2000 mg/kg | |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation gases | 164000 ppm (4 h) | Rat |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS: Not relevant EC: 921-024-6 | LD50 oral | 5840 mg/kg | Rat |
| | LD50 dermal | 2920 mg/kg | Rat |
| | LC50 inhalation vapour | >20 mg/L | |
| acetone CAS: 67-64-1 EC: 200-662-2 | LD50 oral | 5800 mg/kg | Rat |
| | LD50 dermal | 7426 mg/kg | Rabbit |
| | LC50 inhalation vapour | 76 mg/L (4 h) | Rat |
| Butanone CAS: 78-93-3 EC: 201-159-0 | LD50 oral | 4000 mg/kg | Rat |
| | LD50 dermal | 6400 mg/kg | Rabbit |
| | LC50 inhalation vapour | 23.5 mg/L (4 h) | Rat |
| tris(nonylphenyl) phosphite CAS: 26523-78-4 EC: 247-759-6 | LD50 oral | >2000 mg/kg | |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation dust | >5 mg/L | |
| Zinc bis(dibenzylthiocarbamate) CAS: 14726-36-4 EC: 238-778-0 | LD50 oral | >5000 mg/kg | Rat |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation dust | >5 mg/L | |

Acute Toxicity Estimate (ATE mix):

| ATE mix | | Ingredient(s) of unknown toxicity |
|-----------------------|---------------------------------------|-----------------------------------|
| Oral | >2000 mg/kg (Calculation method) | 0 % |
| Dermal | >2000 mg/kg (Calculation method) | 0 % |
| LC50 inhalation gases | >20000 ppm (4 h) (Calculation method) | 0 % |

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Toxic to aquatic life with long lasting effects.

12.1 Toxicity:

Acute toxicity:

| Identification | Concentration | | Species | Genus |
|--|---------------|----------------------|-------------------------|------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS: Not relevant | LC50 | 5.1 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| | EC50 | Not relevant | | |
| | EC50 | Not relevant | | |
| acetone CAS: 67-64-1 | LC50 | 5540 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| | EC50 | 8800 mg/L (48 h) | Daphnia pulex | Crustacean |
| | EC50 | 3400 mg/L (48 h) | Chlorella pyrenoidosa | Algae |
| Butanone CAS: 78-93-3 | LC50 | 3220 mg/L (96 h) | Pimephales promelas | Fish |
| | EC50 | 5091 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 4300 mg/L (168 h) | Scenedesmus quadricauda | Algae |
| tris(nonylphenyl) phosphite CAS: 26523-78-4 | LC50 | >0.1 - 1 mg/L (96 h) | | Fish |
| | EC50 | >0.1 - 1 mg/L (48 h) | | Crustacean |
| | EC50 | >0.1 - 1 mg/L (72 h) | | Algae |
| Zinc bis(dibenzylthiocarbamate) CAS: 14726-36-4 | LC50 | Not relevant | | |
| | EC50 | 0.74 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | Not relevant | | |

Chronic toxicity:

- CONTINUED ON NEXT PAGE -

SECTION 12: ECOLOGICAL INFORMATION (continued)

| Identification | Concentration | | Species | Genus |
|--|---------------|--------------|---------------|------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS: Not relevant | NOEC | Not relevant | | |
| | NOEC | 0.17 mg/L | Daphnia magna | Crustacean |
| acetone CAS: 67-64-1 | NOEC | Not relevant | | |
| | NOEC | 2212 mg/L | Daphnia magna | Crustacean |
| Zinc bis(dibenzylthiocarbamate) CAS: 14726-36-4 | NOEC | 0.1 mg/L | Danio rerio | Fish |
| | NOEC | 0.0169 mg/L | Daphnia magna | Crustacean |

12.2 Persistence and degradability:

Substance-specific information:

| Identification | Degradability | | Biodegradability | |
|---|---------------|--------------|------------------|--------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS: Not relevant EC: 921-024-6 | BOD5 | Not relevant | Concentration | Not relevant |
| | COD | Not relevant | Period | 28 days |
| | BOD5/COD | Not relevant | % Biodegradable | 98 % |
| acetone CAS: 67-64-1 EC: 200-662-2 | BOD5 | Not relevant | Concentration | 100 mg/L |
| | COD | Not relevant | Period | 28 days |
| | BOD5/COD | Not relevant | % Biodegradable | 96 % |
| Butanone CAS: 78-93-3 EC: 201-159-0 | BOD5 | 2.03 g O2/g | Concentration | Not relevant |
| | COD | 2.31 g O2/g | Period | 20 days |
| | BOD5/COD | 0.88 | % Biodegradable | 89 % |

12.3 Bioaccumulative potential:

Substance-specific information:

| Identification | Bioaccumulation potential | |
|---|---------------------------|-------|
| acetone CAS: 67-64-1 EC: 200-662-2 | BCF | 1 |
| | Pow Log | -0.24 |
| | Potential | Low |
| Butanone CAS: 78-93-3 EC: 201-159-0 | BCF | 3 |
| | Pow Log | 0.29 |
| | Potential | Low |

12.4 Mobility in soil:

| Identification | Absorption/desorption | | Volatility | |
|--|-----------------------|----------------------|------------|-----------------------------|
| Dimethyl ether CAS: 115-10-6 | Koc | Not relevant | Henry | Not relevant |
| | Conclusion | Not relevant | Dry soil | Not relevant |
| | Surface tension | 1.136E-2 N/m (25 °C) | Moist soil | Not relevant |
| acetone CAS: 67-64-1 | Koc | 1 | Henry | 2.93 Pa·m ³ /mol |
| | Conclusion | Very High | Dry soil | Yes |
| | Surface tension | 2.304E-2 N/m (25 °C) | Moist soil | Yes |
| Butanone CAS: 78-93-3 | Koc | 30 | Henry | 5.77 Pa·m ³ /mol |
| | Conclusion | Very High | Dry soil | Yes |
| | Surface tension | 2.396E-2 N/m (25 °C) | Moist soil | Yes |
| Zinc bis(dibenzylthiocarbamate) CAS: 14726-36-4 | Koc | 2622000000 | Henry | Not relevant |
| | Conclusion | Immobile | Dry soil | Not relevant |
| | Surface tension | Not relevant | Moist soil | Not relevant |

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

- CONTINUED ON NEXT PAGE -

SECTION 13: DISPOSAL CONSIDERATIONS (continued)

| Code | Description | Waste class |
|-----------|--|-------------|
| 08 04 09* | waste adhesives and sealants containing organic solvents or other hazardous substances | Hazardous |

Type of waste:

HP14 Ecotoxic, HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP4 Irritant — skin irritation and eye damage

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste (England & Wales) Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue.

Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste (England & Wales) Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2025 and RID 2025:



- 14.1 UN number:** UN3501
- 14.2 UN proper shipping name:** CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (Dimethyl ether; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)
- 14.3 Transport hazard class(es):** 2
Labels: 2.1
- 14.4 Packing group:** N/A
- 14.5 Environmental hazards:** Yes
- 14.6 Special precautions for user**
Tunnel restriction code: B/D
Physico-Chemical properties: see section 9
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Not relevant

Transport of dangerous goods by sea:

With regard to IMDG 42-24:



- 14.1 UN number:** UN3501
- 14.2 UN proper shipping name:** CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (Dimethyl ether; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)
- 14.3 Transport hazard class(es):** 2.1
Labels: 2.1
- 14.4 Packing group:** N/A
- 14.5 Marine pollutant:** Yes
- 14.6 Special precautions for user**
Special regulations: 274, 362
EmS Codes: F-H, S-Q
Physico-Chemical properties: see section 9
Limited quantities: 0
Segregation group: Not relevant
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Not relevant

Transport of dangerous goods by air:

With regard to IATA/ICAO 2025:

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SECTION 14: TRANSPORT INFORMATION (continued)



- 14.1 UN number:** UN3501
- 14.2 UN proper shipping name:** CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (Dimethyl ether; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)
- 14.3 Transport hazard class(es):** 2.1
Labels: 2.1
- 14.4 Packing group:** N/A
- 14.5 Environmental hazards:** Yes
- 14.6 Special precautions for user**
Physico-Chemical properties: see section 9
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Not relevant

SECTION 15: REGULATORY INFORMATION

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): *tris(nonylphenyl) phosphite (26523-78-4)*
- Substances listed in UK REACH Authorisation List (Annex 14): Not relevant

The Control of Major Accident Hazards Regulations 2015:

| Section | Description | Lower-tier requirements | Upper-tier requirements |
|---------|-----------------------|-------------------------|-------------------------|
| P2 | FLAMMABLE GASES | 10 | 50 |
| E2 | ENVIRONMENTAL HAZARDS | 200 | 500 |

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH, etc):

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors: Contains acetone. Product under the provisions of Article 9. However, products that contain explosives precursors only to such a small extent and in such complex mixtures that the extraction of the explosives precursors is technically extremely difficult should be excluded from the scope of this Regulation.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.
Control of Substances Hazardous to Health Regulations 2002 (as amended)
EH40/2005 Workplace exposure limits.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

Texts of the legislative phrases mentioned in section 2:

H280: Contains gas under pressure, may explode if heated.
H315: Causes skin irritation.
H336: May cause drowsiness or dizziness.
H411: Toxic to aquatic life with long lasting effects.
H220: Extremely flammable gas.
H319: Causes serious eye irritation.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):

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SECTION 16: OTHER INFORMATION (continued)

Aquatic Acute 1: H400 - Very toxic to aquatic life.
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Gas 1A: H220 - Extremely flammable gas.
Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
Press. Gas: H280 - Contains gas under pressure, may explode if heated.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
STOT SE 3: H336 - May cause drowsiness or dizziness.

Classification procedure:

Skin Irrit. 2: Calculation method
STOT SE 3: Calculation method
Aquatic Chronic 2: Calculation method
Eye Irrit. 2: Calculation method

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://echa.europa.eu>
<http://eur-lex.europa.eu>

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon
UFI: unique formula identifier
IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -