XFOAM HPU-B XFOAM CLEANER

Hobson Engineering Co Pty Ltd

Chemwatch Hazard Alert Code: 3

Chemwatch: **5635-42** Issue Date: 17/01/2024 Version No: 2.1 Print Date: 18/01/2024 L.GHS.AUS.EN.E

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

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

Product Identifier

| Product name | XFOAM HPU-B XFOAM CLEANER |
|-------------------------------|---------------------------|
| Chemical Name | Not Applicable |
| Synonyms | Not Available |
| Proper shipping name | AEROSOLS |
| Chemical formula | Not Applicable |
| Other means of identification | Not Available |

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

| Relevant identified uses | Cleaner for fresh PU foam and gun. |
|--------------------------|---|
| | Use according to manufacturer's directions. |
| | Application is by spray atomisation from a hand held aerosol pack |

Details of the manufacturer or supplier of the safety data sheet

| Registered company name | Hobson Engineering Co Pty Ltd |
|-------------------------|--|
| Address | 10 Clay Place Eastern Creek NSW 2176 Australia |
| Telephone | +61 2 8818 0222 |
| Fax | +61 2 9620 1850 |
| Website | www.hobson.com.au |
| Email | info@hobson.com.au |

Emergency telephone number

| Association / Organisation | CHEMWATCH EMERGENCY RESPONSE (24/7) |
|-----------------------------------|-------------------------------------|
| Emergency telephone numbers | +61 1800 951 288 |
| Other emergency telephone numbers | +61 3 9573 3188 |

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

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| Poisons Schedule | S5 | |
|--------------------|---|--|
| Classification [1] | Aerosols Category 1, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3 | |
| Legend: | 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI | |

Label elements

Hazard pictogram(s)





Signal word

Danger

Hazard statement(s)

| H222+H229 | Extremely flammable aerosol. Pressurized container: may burst if heated. | |
|-----------|--|--|
| H319 | Causes serious eye irritation. | |
| H336 | May cause drowsiness or dizziness. | |
| AUH044 | Risk of explosion if heated under confinement. | |

Precautionary statement(s) Prevention

| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. | |
|------|--|--|
| P211 | Oo not spray on an open flame or other ignition source. | |
| P251 | Do not pierce or burn, even after use. | |
| P271 | Use only outdoors or in a well-ventilated area. | |
| P261 | Avoid breathing mist/vapours/spray. | |
| 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

| P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and earlier to do. Continue rinsing. | | |
|--|--|--|
| P312 | call a POISON CENTER/doctor/physician/first aider/if you feel unwell. | |
| P337+P313 | If eye irritation persists: Get medical advice/attention. | |
| P304+P340 | +P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. | |

Precautionary statement(s) Storage

| P405 | P405 Store locked up. | |
|--|--|--|
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. | |
| 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. |

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SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name |
|---|-----------|----------------|
| 67-64-1 | 65-75 | acetone |
| 115-10-6 | 25-30 | dimethyl ether |
| 124-38-9 | 1-5 | carbon dioxide |
| Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available | | |

SECTION 4 First aid measures

Description of first aid measures

| Eye Contact | If aerosols come in contact with the eyes: Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water. 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. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
|--------------|---|
| Skin Contact | If solids or aerosol mists are deposited upon the skin: Flush skin and hair with running water (and soap if available). Remove any adhering solids with industrial skin cleansing cream. DO NOT use solvents. Seek medical attention in the event of irritation. |
| Inhalation | If aerosols, fumes or combustion products are inhaled: Remove to fresh air. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor. |
| Ingestion | ▶ Not considered a normal route of entry. |

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. for lower alkyl ethers:

BASIC TREATMENT

• Establish a patent airway with suction where necessary.

- · Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 l/min.
- · A low-stimulus environment must be maintained.
- · Monitor and treat, where necessary, for shock.
- · Anticipate and treat, where necessary, for seizures.
- PDO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution

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where patient is able to swallow, has a strong gag reflex and does not drool.

ADVANCED TREATMENT

• Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.

- Positive-pressure ventilation using a bag-valve mask might be of use.
- · Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- Hypotension without signs of hypovolaemia may require vasopressors.
- Treat seizures with diazepam.
- · Proparacaine hydrochloride should be used to assist eye irrigation.

EMERGENCY DEPARTMENT

- Laboratory analysis of complete blood count, serum electrolytes, BUN, creatinine, glucose, urinalysis, baseline for serum aminotransferases (ALT and AST), calcium, phosphorus and magnesium, may assist in establishing a treatment regime. Other useful analyses include anion and osmolar gaps, arterial blood gases (ABGs), chest radiographs and electrocardiograph.
- Ethers may produce anion gap acidosis. Hyperventilation and bicarbonate therapy might be indicated.
- · Haemodialysis might be considered in patients with impaired renal function.
- · Consult a toxicologist as necessary.

BRONSTEIN, A.C. and CURRANCE, P.L.

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

For acute or short term repeated exposures to acetone:

- Symptoms of acetone exposure approximate ethanol intoxication.
- About 20% is expired by the lungs and the rest is metabolised. Alveolar air half-life is about 4 hours following two hour inhalation at levels near the Exposure Standard; in overdose, saturable metabolism and limited clearance, prolong the elimination half-life to 25-30 hours.
- There are no known antidotes and treatment should involve the usual methods of decontamination followed by supportive care.

[Ellenhorn and Barceloux: Medical Toxicology]

Management:

Measurement of serum and urine acetone concentrations may be useful to monitor the severity of ingestion or inhalation.

Inhalation Management:

- Maintain a clear airway, give humidified oxygen and ventilate if necessary.
- If respiratory irritation occurs, assess respiratory function and, if necessary, perform chest X-rays to check for chemical pneumonitis.
- Consider the use of steroids to reduce the inflammatory response.
- Treat pulmonary oedema with PEEP or CPAP ventilation.

Dermal Management:

- Remove any remaining contaminated clothing, place in double sealed, clear bags, label and store in secure area away from patients and staff.
- Irrigate with copious amounts of water.
- An emollient may be required.

Eye Management:

- Irrigate thoroughly with running water or saline for 15 minutes.
- F Stain with fluorescein and refer to an ophthalmologist if there is any uptake of the stain.

Oral Management:

- No GASTRIC LAVAGE OR EMETIC
- Encourage oral fluids.

Systemic Management:

- Monitor blood glucose and arterial pH.
- · Ventilate if respiratory depression occurs.
- · If patient unconscious, monitor renal function.
- Symptomatic and supportive care.

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The Chemical Incident Management Handbook:

Guy's and St. Thomas' Hospital Trust, 2000

BIOLOGICAL EXPOSURE INDEX

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or

TLV):

Determinant Sampling Time Index Comments

Acetone in urine End of shift 50 mg/L NS

NS: Non-specific determinant; also observed after exposure to other material

SECTION 5 Firefighting measures

Extinguishing media

SMALL FIRE:

Water spray, dry chemical or CO2

LARGE FIRE:

· Water spray or fog.

Special hazards arising from the substrate or mixture

| Fire | Incompatibility |
|------|-----------------|
| • | |

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Advice for firefighters

| Advice for firefighters | |
|-------------------------|---|
| Fire Fighting | Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control fire and cool adjacent area. 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 | Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Severe explosion hazard, in the form of vapour, when exposed to flame or spark. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition with violent container rupture. Aerosol cans may explode on exposure to naked flames. Rupturing containers may rocket and scatter burning materials. Hazards may not be restricted to pressure effects. May emit acrid, poisonous or corrosive fumes. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) other pyrolysis products typical of burning organic material. Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions. |

SECTION 6 Accidental release measures

Not Applicable

HAZCHEM

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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 | Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Wear protective clothing, impervious gloves and safety glasses. Shut off all possible sources of ignition and increase ventilation. Wipe up. If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated. Undamaged cans should be gathered and stowed safely. |
|--------------|---|
| Major Spills | Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water courses No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Water spray or fog may be used to disperse / absorb vapour. Absorb or cover spill with sand, earth, inert materials or vermiculite. If safe, damaged cans should be placed in a container outdoors, away from ignition sources, until pressure has dissipated. Undamaged cans should be gathered and stowed safely. Collect residues and seal in labelled drums for disposal. |

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

SECTION 7 Handling and storage

Precautions for safe handling

| | • |
|-------------------|--|
| Safe handling | Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. DO NOT incinerate or puncture aerosol cans. DO NOT spray directly on humans, exposed food or food utensils. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe |
| | |
| Other information | Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can |

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- · Store in original containers in approved flammable liquid storage area.
- DO NOT store in pits, depressions, basements or areas where vapours may be trapped.
- ▶ No smoking, naked lights, heat or ignition sources.
- ► Keep containers securely sealed. Contents under pressure.
- · Store away from incompatible materials.
- · Store in a cool, dry, well ventilated area.
- · Avoid storage at temperatures higher than 40 deg C.
- ▶ Store in an upright position.
- Protect containers against physical damage.
- · Check regularly for spills and leaks.
- · Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container Storage incompatibility

- · Aerosol dispenser.
- · Check that containers are clearly labelled.

• Compressed gases may contain a large amount of kinetic energy over and above that potentially available from the energy of reaction produced by the gas in chemical reaction with other substances

Avoid reaction with oxidising agents

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|---------------------------------|------------|------------------------------|-------------------------|--------------------------|------------------|------------------|
| Australia Exposure Standards | acetone | Acetone | 500 ppm / 1185 mg/m3 | 2375 mg/m3 / 1000 ppm | Not Available | Not Available |
| Australia Exposure | dimethyl | Dimethyl ether | 400 ppm / 760 | 950 mg/m3 / 500 | Not | Not |
| Standards | ether | | mg/m3 | ppm | Available | Available |
| Australia Exposure | carbon | Carbon dioxide in coal mines | 12500 ppm / | 54000 mg/m3 / | Not | Not |
| Standards | dioxide | | 22500 mg/m3 | 30000 ppm | Available | Available |
| Australia Exposure | carbon | Carbon dioxide | 5000 ppm / 9000 | 54000 mg/m3 / | Not | Not |
| Standards | dioxide | | mg/m3 | 30000 ppm | Available | Available |

Emergency Limits

| Ingredient | TEEL-1 | TEEL-2 | TEEL-3 |
|----------------|---------------|---------------|---------------|
| acetone | Not Available | Not Available | Not Available |
| dimethyl ether | 3,000 ppm | 3800* ppm | 7200* ppm |

| Ingredient | Original IDLH | Revised IDLH |
|----------------|---------------|---------------|
| acetone | 2,500 ppm | Not Available |
| dimethyl ether | Not Available | Not Available |
| carbon dioxide | 40,000 ppm | Not Available |

MATERIAL DATA

Exposure controls

| Appropriate |
|----------------------|
| engineering controls |

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be

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independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection.

Provide adequate ventilation in warehouse or closed storage areas.

Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

| Type of Contaminant: | Speed: |
|---|--------------------|
| aerosols, (released at low velocity into zone of active generation) | 0.5-1 m/s |
| direct spray, spray painting in shallow booths, gas discharge (active | 1-2.5 m/s (200-500 |
| generation into zone of rapid air motion) | 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 distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

Individual protection measures, such as personal protective equipment











Eye and face protection

714aer

Skin protection

See Hand protection below

OTHERWISE:

Hands/feet protection

- For potentially moderate exposures:
- Wear general protective gloves, eg. light weight rubber gloves.

No special equipment needed when handling small quantities.

- For potentially heavy exposures:
- · Wear chemical protective gloves, eg. PVC. and safety footwear.

Body protection

See Other protection below

No special equipment needed when handling small quantities.

Other protection

OTHERWISE: → Overalls.

- · Skin cleansing cream.
- F Eyewash unit.

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Do not spray on hot surfaces.

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

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| Material | СРІ |
|------------------|-----|
| BUTYL | А |
| BUTYL/NEOPRENE | С |
| CPE | С |
| HYPALON | С |
| NATURAL RUBBER | С |
| NATURAL+NEOPRENE | С |
| NEOPRENE | С |
| NITRILE | С |
| NITRILE+PVC | С |
| PE/EVAL/PE | С |
| PVA | С |
| PVC | С |
| PVDC/PE/PVDC | С |
| SARANEX-23 | С |
| SARANEX-23 2-PLY | С |
| TEFLON | С |
| VITON/NEOPRENE | С |

- * CPI Chemwatch Performance Index
- A: Best Selection
- B: Satisfactory; may degrade after 4 hours continuous immersion
- C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Ansell Glove Selection

| Glove — In order of recommendation |
|------------------------------------|
| MICROFLEX® 63-864 |
| MICROFLEX® Diamond Grip® MF-300 |
| TouchNTuff® 83-500 |

Respiratory protection

Type AX Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|---|-------------------------|-------------------------|---------------------------|
| up to 10 x ES | Air-line* | AX-2 | AX-PAPR-2 ^ |
| up to 20 x ES | - | AX-3 | - |
| 20+ x ES | - | Air-line** | - |

- * Continuous-flow; ** Continuous-flow or positive pressure demand
- ^ Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

Aerosols, in common with most vapours/ mists, should never be used in confined spaces without adequate ventilation. Aerosols, containing agents designed to enhance or mask smell, have triggered allergic reactions in predisposed individuals.

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| BioClean™ Ultimate BUPS |
|---------------------------------|
| DermaShield™ 73-711 |
| MICROFLEX® 73-847 |
| MICROFLEX® NeoPro® NPG-888 |
| MICROFLEX® Neogard® C52 |
| TouchNTuff® DermaShield™ 73-701 |
| TouchNTuff® 73-500 |

The suggested gloves for use should be confirmed with the glove supplier.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

| Appearance | Liquid aerosol with a characteristic odour; mixes with water. | | |
|--|---|---|----------------|
| | | | |
| Physical state | Liquid | Relative density (Water = 1) | 0.79 |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | 465 |
| pH (as supplied) | Not Available | Decomposition temperature (°C) | Not Available |
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | Not Available |
| Initial boiling point and boiling range (°C) | 55.8-56.6 | Molecular weight (g/mol) | Not Applicable |
| Flash point (°C) | <-18 | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | HIGHLY FLAMMABLE. | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | 13 | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | 2.6 | Volatile Component (%vol) | Not Available |
| Vapour pressure (kPa) | 23 | Gas group | Not Available |
| Solubility in water | Miscible | pH as a solution (1%) | Not Available |
| Vapour density (Air = 1) | Not Available | VOC g/L | 97.6 |

SECTION 10 Stability and reactivity

| Reactivity | See section 7 |
|--------------------|--|
| Chemical stability | Elevated temperatures. Presence of open flame. Product is considered stable. Hazardous polymerisation will not occur. |

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| Possibility of hazardous reactions | See section 7 |
|--|---------------|
| Conditions to avoid | See section 7 |
| Incompatible materials | See section 7 |
| Hazardous decomposition products | See section 5 |

SECTION 11 Toxicological information

Information on toxicological effects

Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, in a substantial number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo. Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. 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

WARNING: Intentional misuse by concentrating/inhaling contents may be lethal.

Ingestion

Considered an unlikely route of entry in commercial/industrial environments Not normally a hazard due to physical form of product.

may happen with little warning of overexposure.

Accidental ingestion of the material may be damaging to the health of the individual.

Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.

The material may produce mild skin irritation; limited evidence or practical experience suggests, that the material either:

- produces mild inflammation of the skin in a substantial number of individuals following direct contact, and/or
- produces significant, but mild, inflammation when applied to the healthy intact skin of animals (for up to four hours), such inflammation being present twenty-four hours or more after the end of the exposure period.

Skin Contact

Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (non allergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.

Spray mist may produce discomfort

Open cuts, abraded or irritated skin should not be exposed to this material

Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds 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.

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Direct contact with the eye may not cause irritation because of the extreme volatility of the gas; however concentrated atmospheres may produce irritation after brief exposures..

Eye

Evidence exists, or practical experience predicts, that the material may cause severe eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Eye contact may cause significant inflammation with pain. Corneal injury may occur; permanent impairment of vision may result unless treatment is prompt and adequate. Repeated or prolonged exposure to irritants may cause inflammation characterised by a temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur. The liquid may produce eye discomfort and is capable of causing temporary impairment of vision and/or transient eye inflammation, ulceration

Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems.

Serious damage (clear functional disturbance or morphological change which may have toxicological significance) is likely to be caused by repeated or prolonged exposure. As a rule the material produces, or contains a substance which produces severe lesions. Such damage may become apparent following direct application in subchronic (90 day) toxicity studies or following sub-acute (28 day) or chronic (two-year) toxicity tests.

Exposure to the material may cause concerns for human fertility, generally on the basis that results in animal studies provide sufficient evidence to cause a strong suspicion of impaired fertility in the absence of toxic effects, or evidence of impaired fertility occurring at around the same dose levels as other toxic effects, but which are not a secondary non-specific consequence of other toxic effects.

Chronic

Exposure to the material may cause concerns for humans owing to possible developmental toxic effects, generally on the basis that results in appropriate animal studies provide strong suspicion of developmental toxicity in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of other toxic effects.

Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.

Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.

Principal route of occupational exposure to the gas is by inhalation.

Chronic exposure to alkyl ethers may result in loss of appetite, excessive thirst, fatigue, and weight loss Workers exposed to 700 ppm acetone for 3 hours/day for 7-15 years showed inflammation of the respiratory tract, stomach and duodenum, attacks of giddiness and loss of strength. Exposure to acetone may enhance liver toxicity of chlorinated solvents.

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| TOXICITY | IRRITATION |
|--|---------------|
| Dermal (Rabbit) LD50: 20000 mg/kg ^[2] | Not Available |
| Oral (Rat) LD50: 5800 mg/kg ^[2] | |

acetone

| TOXICITY | IRRITATION |
|--|--|
| Dermal (rabbit) LD50: 20000 mg/kg ^[2] | Eye (human): 500 ppm - irritant |
| Inhalation(Mouse) LC50; 44 mg/L4h ^[2] | Eye (rabbit): 20mg/24hr -moderate |
| Oral (Rat) LD50: 5800 mg/kg ^[2] | Eye (rabbit): 3.95 mg - SEVERE |
| | Eye: adverse effect observed (irritating) ^[1] |
| | Skin (rabbit): 500 mg/24hr - mild |
| | Skin (rabbit):395mg (open) - mild |
| | Skin: no adverse effect observed (not irritating) ^[1] |

dimethyl ether

TOXICITY IRRITATION

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| | Inhalation(Rat) LC50: >20000 ppm4h ^[1] | Not Available | |
|----------------|--|---------------------------|--|
| carbon dioxide | TOXICITY Not Available | IRRITATION Not Available | |
| Legend: | Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances | | |

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.

For acetone:

The acute toxicity of acetone is low. Acetone is not a skin irritant or sensitiser but is a defatting agent to the skin. Acetone is an eye irritant. The subchronic toxicity of acetone has been examined in mice and rats that were administered acetone in the drinking water and again in rats treated by oral gavage. Acetone-induced increases in relative kidney weight changes were observed in male and female rats used in the oral 13-week study. Acetone treatment caused increases in the relative liver weight in male and female rats that were not associated with histopathologic effects and the effects may have been associated with microsomal enzyme induction. Haematologic effects consistent with macrocytic anaemia were also noted in male rats along with hyperpigmentation in the spleen. The most notable findings in the mice were increased liver and decreased spleen weights. Overall, the no-observed-effect-levels in the drinking water study were 1% for male rats (900 mg/kg/d) and male mice (2258 mg/kg/d), 2% for female mice (5945 mg/kg/d), and 5% for female rats (3100 mg/kg/d). For developmental effects, a statistically significant reduction in foetal weight, and a slight, but statistically significant increase in the percent incidence of later resorptions were seen in mice at 15,665 mg/m3 and in rats at 26,100 mg/m3. The no-observable-effect level for developmental toxicity was determined to be 5220 mg/m3 for both rats and mice

ACETONE

Teratogenic effects were not observed in rats and mice tested at 26,110 and 15,665 mg/m3, respectively. Lifetime dermal carcinogenicity studies in mice treated with up to 0.2 mL of acetone did not reveal any increase in organ tumor incidence relative to untreated control animals.

The scientific literature contains many different studies that have measured either the neurobehavioural performance or neurophysiological response of humans exposed to acetone. Effect levels ranging from about 600 to greater than 2375 mg/m3 have been reported. Neurobehavioral studies with acetone-exposed employees have recently shown that 8-hr exposures in excess of 2375 mg/m3 were not associated with any dose-related changes in response time, vigilance, or digit span scores. Clinical case studies, controlled human volunteer studies, animal research, and occupational field evaluations all indicate that the NOAEL for this effect is 2375 mg/m3 or greater.

| Acute Toxicity | x | Carcinogenicity | × |
|-----------------------------------|----------|-----------------------------|---|
| Skin Irritation/Corrosion | × | Reproductivity | × |
| Serious Eye Damage/Irritation | ~ | STOT - Single Exposure | • |
| Respiratory or Skin sensitisation | × | STOT - Repeated Exposure | × |
| Mutagenicity | × | Aspiration Hazard | × |

Legend: x − Data either not available or does not fill the criteria for classification

 ✓ – Data available to make classification

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Toxicity

| VECAM LIBIT B | Endpoint | Test Duration (hr) | | Species | | Value | Source |
|------------------------------|------------------|--|----------|------------------------------|------------|------------------|------------------|
| XFOAM HPU-B XFOAM CLEANER | Not Available | | | Not Available | | Not Available | Not Available |
| | Endpoint | Test Duration (hr) | Sp | ecies | Value | | Source |
| | LC50 | 96h | Fis | h | 3744.0 | 6-5000.7mg/L | 4 |
| | NOEC(ECx) | 12h | Fis | sh | 0.001 | mg/L | 4 |
| acetone | EC50 | 72h | , | gae or other aquatic | 5600- | 5600-10000mg/l | |
| | EC50 | 48h | Cri | ustacea | 6098. | 4mg/L | 5 |
| | EC50 | 96h | , | gae or other aquatic ints | 9.873 | -27.684mg/l | 4 |
| | Endpoint | Test Duration (hr) | | Species | | Value | Source |
| | EC50 | 48h | | Crustacea | | >4400mg/L | 2 |
| dimethyl ether | EC50 | 96h | | Algae or other aquation | plants | 154.917mg/l | 2 |
| | LC50 | 96h | | Fish | | 1783.04mg/l | 2 |
| | NOEC(ECx) | 48h | | Crustacea | | >4000mg/l | 1 |
| | Endpoint | Test Duration (hr) | | Species | | Value | Source |
| carbon dioxide | LC50 | 96h | | Fish | | 35mg/l | 1 |
| Legend: | Information - A | n 1. IUCLID Toxicity Data 2 Aquatic Toxicity 4. US EPA Isment Data 6. NITE (Japa | A, Ecoto | x database - Aquatic T | oxicity Da | ata 5. ECETOC | Aquatic |

Most ethers are very resistant to hydrolysis, and the rate of cleavage of the carbon-oxygen bond by abiotic processes is expected to be insignificant.

Direct photolysis will not be an important removal process since aliphatic ethers do not absorb light at wavelengths >290 nm For Ketones: Ketones, unless they are alpha, beta--unsaturated ketones, can be considered as narcosis or baseline toxicity compounds.

Aquatic Fate: Hydrolysis of ketones in water is thermodynamically favourable only for low molecular weight ketones. Reactions with water are reversible with no permanent change in the structure of the ketone substrate. Ketones are stable to water under ambient environmental conditions. When pH levels are greater than 10, condensation reactions can occur which produce higher molecular weight products. Under ambient conditions of temperature, pH, and low concentration, these condensation reactions are unfavourable. Based on its reactions in air, it seems likely that ketones undergo photolysis in water.

Terrestrial Fate: It is probable that ketones will be biodegraded by micro-organisms in soil and water.

Ecotoxicity: Ketones are unlikely to bioconcentrate or biomagnify.

DO NOT discharge into sewer or waterways.

for acetone: log Kow: -0.24

Half-life (hr) air: 312-1896

Half-life (hr) H2O surface water: 20 Henry's atm m3 /mol: 3.67E-05 BOD 5: 0.31-1.76,46-55%

COD: 1.12-2.07 ThOD: 2.2 BCF: 0.69

Environmental fate:

Acetone preferentially locates in the air compartment when released to the environment. A substantial amount of acetone can also

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be found in water, which is consistent with the high water to air partition coefficient and its small, but detectable, presence in rain water, sea water, and lake water samples. Very little acetone is expected to reside in soil, biota, or suspended solids. This is entirely consistent with the physical and chemical properties of acetone and with measurements showing a low propensity for soil absorption and a high preference for moving through the soil and into the ground water

In air, acetone is lost by photolysis and reaction with photochemically produced hydroxyl radicals; the estimated half-life of these combined processes is about 22 days. The relatively long half-life allows acetone to be transported long distances from its emission source.

Acetone is highly soluble and slightly persistent in water, with a half-life of about 20 hours; it is minimally toxic to aquatic life.

Acetone released to soil volatilises although some may leach into the ground where it rapidly biodegrades.

Acetone does not concentrate in the food chain.

Acetone meets the OECD definition of readily biodegradable which requires that the biological oxygen demand (BOD) is at least 70% of the theoretical oxygen demand (THOD) within the 28-day test period

Drinking Water Standard: none available.

Soil Guidelines: none available.

Air Quality Standards: none available.

Ecotoxicity:

Testing shows that acetone exhibits a low order of toxicity
Fish LC50: brook trout 6070 mg/l; fathead minnow 15000 mg/l
Bird LC0 (5 day): Japanese quail, ring-neck pheasant 40,000 mg/l
Daphnia magna LC50 (48 h): 15800 mg/l; NOEC 8500 mg/l

Aquatic invertebrate 2100 - 16700 mg/l Aquatic plant NOEC: 5400-7500 mg/l Daphnia magna chronic NOEC 1660 mg/l

Acetone vapors were shown to be relatively toxic to two types insects and their eggs. The time to 50% lethality (LT50) was found to be 51.2 hr and 67.9 hr when the flour beetle (*Tribolium confusum*) and the flour moth (*Ephestia kuehniella*) were exposed to an airborne acetone concentration of 61.5 mg/m3. The LT50 values for the eggs were 30-50% lower than for the adult. The direct application of acetone liquid to the body of the insects or surface of the eggs did not, however, cause any mortality.

The ability of acetone to inhibit cell multiplication has been examined in a wide variety of microorganisms. The results have generally indicated mild to minimal toxicity with NOECs greater than 1700 mg/L for exposures lasting from 6 hr to 4 days. Longer exposure periods of 7 to 8 days with bacteria produced mixed results; but overall the data indicate a low degree of toxicity for acetone. The only exception to these findings were the results obtained with the flagellated protozoa (*Entosiphon sulcatum*) which yielded a 3-day NOEC of 28 mg/L.

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|----------------|---------------------------|----------------------------------|
| acetone | LOW (Half-life = 14 days) | MEDIUM (Half-life = 116.25 days) |
| dimethyl ether | LOW | LOW |
| carbon dioxide | LOW | LOW |

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|----------------|---------------------|
| acetone | LOW (BCF = 0.69) |
| dimethyl ether | LOW (LogKOW = 0.1) |
| carbon dioxide | LOW (LogKOW = 0.83) |

Mobility in soil

| Ingredient | Mobility |
|----------------|--------------------|
| acetone | HIGH (KOC = 1.981) |
| dimethyl ether | HIGH (KOC = 1.292) |
| carbon dioxide | HIGH (KOC = 1.498) |

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SECTION 13 Disposal considerations

Waste treatment methods

- DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.

Product / Packaging disposal

- · Where in doubt contact the responsible authority.
- · Consult State Land Waste Management Authority for disposal.
- Discharge contents of damaged aerosol cans at an approved site.
- · Allow small quantities to evaporate.
- DO NOT incinerate or puncture aerosol cans.
- Bury residues and emptied aerosol cans at an approved site.

SECTION 14 Transport information

Labels Required

| | 2 |
|------------------|----------------|
| Marine Pollutant | NO |
| HAZCHEM | Not Applicable |

Land transport (ADG)

| 14.1. UN number or ID number | 1950 | | |
|------------------------------------|--------------------|------------------------|--|
| 14.2. UN proper shipping name | AEROSOLS | | |
| 14.3. Transport hazard class(es) | Class | 2.1 | |
| | Subsidiary Hazard | Not Applicable | |
| 14.4. Packing group | Not Applicable | | |
| 14.5. Environmental hazard | Not Applicable | | |
| 14.6. Special precautions for user | Special provisions | 63 190 277 327 344 381 | |
| | Limited quantity | 1000ml | |

Air transport (ICAO-IATA / DGR)

| 14.4. Packing group | ERG Code Not Applicable | 10L |
|----------------------------------|--|----------------|
| 14.3. Transport hazard class(es) | ICAO / IATA Subsidiary Hazard | Not Applicable |
| 440 Transment | ICAO/IATA Class | 2.1 |
| 14.2. UN proper shipping name | Aerosols, flammable; Aerosols, flammable (engine starting fluid) | |
| 14.1. UN number | 1950 | |

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| 14.5. Environmental hazard | Not Applicable | | |
|------------------------------------|---|-----------------------------------|--|
| 14.6. Special precautions for user | Special provisions | A145 A167 A802; A1 A145 A167 A802 | |
| | Cargo Only Packing Instructions | 203 | |
| | Cargo Only Maximum Qty / Pack | 150 kg | |
| | Passenger and Cargo Packing Instructions | 203; Forbidden | |
| | Passenger and Cargo Maximum Qty / Pack | 75 kg; Forbidden | |
| | Passenger and Cargo Limited Quantity Packing Instructions | Y203; Forbidden | |
| | Passenger and Cargo Limited Maximum Qty / Pack | 30 kg G; Forbidden | |

Sea transport (IMDG-Code / GGVSee)

| 14.1. UN number | 1950 | | |
|------------------------------------|---------------------------------|---|--|
| 14.2. UN proper shipping name | AEROSOLS | | |
| 14.3. Transport hazard class(es) | IMDG Class IMDG Subsidiary Haza | 2.1 And Not Applicable | |
| 14.4. Packing group | Not Applicable | | |
| 14.5 Environmental hazard | Not Applicable | | |
| 14.6. Special precautions for user | EMS Number F | F-D , S-U | |
| | Special provisions 6 | Special provisions 63 190 277 327 344 381 959 | |
| | Limited Quantities 1 | 1000 ml | |

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

Not Applicable

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

| Product name | Group |
|----------------|---------------|
| acetone | Not Available |
| dimethyl ether | Not Available |
| carbon dioxide | Not Available |

14.7.3. Transport in bulk in accordance with the IGC Code

| Product name | Ship Type |
|----------------|---------------|
| acetone | Not Available |
| dimethyl ether | Not Available |
| carbon dioxide | Not Available |

SECTION 15 Regulatory information

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

acetone is found on the following regulatory lists

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Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australian Inventory of Industrial Chemicals (AIIC)

dimethyl ether is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australian Inventory of Industrial Chemicals (AIIC)

carbon dioxide is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

FEI Equine Prohibited Substances List - Controlled Medication

FEI Equine Prohibited Substances List (EPSL)

Additional Regulatory Information

Not Applicable

National Inventory Status

| National Inventory | Status |
|---|--|
| Australia - AIIC / Australia Non-Industrial Use | Yes |
| Canada - DSL | Yes |
| Canada - NDSL | No (acetone; dimethyl ether; carbon dioxide) |
| China - IECSC | Yes |
| Europe - EINEC / ELINCS / NLP | Yes |
| Japan - ENCS | Yes |
| Korea - KECI | Yes |
| New Zealand - NZIoC | Yes |
| Philippines - PICCS | Yes |
| USA - TSCA | Yes |
| Taiwan - TCSI | Yes |
| Mexico - INSQ | Yes |
| Vietnam - NCI | Yes |
| Russia - FBEPH | Yes |
| Legend: | Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration. |

SECTION 16 Other information

| Revision Date | 17/01/2024 |
|---------------|------------|
| Initial Date | 17/01/2024 |

SDS Version Summary

| Version | Date of Update | Sections Updated |
|---------|----------------|---|
| 2.1 | 17/01/2024 | Hazards identification - Classification |

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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.

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
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- · 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

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