

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

1.1 Product identifier

Product name : SPIRIT WBF 7200
Product code : 37570
Product description : Not available.
Product type : Liquid.
Other means of identification : Not available.

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

Identified uses

Metalworking fluid
Formulation additives, lubricants and greases - Industrial
Handling and dilution of metal working fluid concentrates - Industrial
Use of lubricants in high energy open processes - Industrial
Use of lubricants in high energy open processes - Professional

Uses advised against

Not applicable.

1.3 Details of the supplier of the safety data sheet

TotalEnergies Lubrifiants
562 Avenue du Parc de L'île
92029 Nanterre Cedex FRANCE
Tél: +33 (0)1 41 35 40 00
Fax: +33 (0)1 41 35 84 71
rm.msds-lubs@totalenergies.com

TotalEnergies Marketing UK Limited
10 Upper Bank Street (19th floor)
Canary Wharf,
London E14 5BF
UNITED KINGDOM
Tel: +44 (0)20 7339 8000
Fax: +44 (0)20 7339 8033
rm.gb-msds@totalenergies.com

H.S.E

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : National Poisons Information Service (NPIS): 111

Supplier

Telephone number : Emergency telephone: +44 1235 239670

Hours of operation : Edit the content of sentence <GB Telephone Number - Supplier - Hours of operation> to define this output

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

Information limitations : Edit the content of sentence <GB Telephone Number - Supplier - Information limitations> to define this output

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Ingredients of unknown ecotoxicity : Contains 34.4% of components with unknown hazards to the aquatic environment

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word : No signal word.

Hazard statements : H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention : P273 - Avoid release to the environment.

Response : Not applicable.

Storage : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.


Supplemental label elements : Contains 3-iodo-2-propynyl butylcarbamate and 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Biocidal products regulation

Active substances

| Ingredient name | % |
|----------------------------------|-------|
| 3-iodo-2-propynyl butylcarbamate | 0.2 |
| 1,2-benzisothiazol-3(2H)-one | 0.048 |

 This product contains one or more biocides which act against bacteria and/or fungi.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

SECTION 2: Hazards identification

This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration $\geq 0,1\%$.

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACH Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

Other hazards which do not result in classification : Hazard of slipping on spilt product.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| Product/ingredient name | Identifiers | % | Classification | Type |
|--|---|---------------------|---|---------|
| Distillates (petroleum), hydrotreated light naphthenic | REACH #: 01-2119480375-34 EC: 265-156-6 CAS: 64742-53-6 Index: 649-466-00-2 | $\geq 25 - \leq 50$ | Asp. Tox. 1, H304 | [1] |
| Alcohols, C16-18 and C18-unsatd., ethoxylated | REACH #: 01-2119489407-26 EC: 500-236-9 CAS: 68920-66-1 | < 10 | Skin Irrit. 2, H315 Aquatic Chronic 2, H411 | [1] |
| 3-iodo-2-propynyl butylcarbamate | EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7 | ≤ 0.3 | Acute Tox. 4, H302 Acute Tox. 3, H331 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 (larynx) Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) | [1] |
| glycerol | REACH #: 01-2119471987-18 EC: 200-289-5 CAS: 56-81-5 | ≤ 0.1 | Not classified. | [2] |
| diethylene glycol | REACH #: 01-2119457857-21 EC: 203-872-2 CAS: 111-46-6 Index: 603-140-00-6 | ≤ 0.1 | Acute Tox. 4, H302 | [1] [2] |
| sodium hydroxide | REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6 | ≤ 0.1 | Skin Corr. 1A, H314 Eye Dam. 1, H318 | [1] [2] |
| morpholine | EC: 203-815-1 CAS: 110-91-8 Index: 613-028-00-9 | < 0.1 | Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 | [1] [2] |

SECTION 3: Composition/information on ingredients

| | | | | |
|--|--|--|--|--|
| | | | See Section 16 for the full text of the H statements declared above. | |
|--|--|--|--|--|

Additional information : Mineral oil of petroleum origin Product containing mineral oil with less than 3% DMSO extract as measured by IP 346 The product is made from synthetic base oils

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
dryness
cracking
- Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 4: First aid measures

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** : carbon monoxide
carbon dioxide
nitrogen oxides
Sodium oxides
sulfur oxides
Hydrogen sulfide
Mercaptans

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

SECTION 6: Accidental release measures

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
- 6.4 Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| Product/substance | Exposure limit values |
|---------------------|---|
| glycerol | EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist |
| 2,2' -oxybisethanol | EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 101 mg/m ³ 8 hours. TWA: 23 ppm 8 hours. |
| sodium hydroxide | EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 2 mg/m ³ 15 minutes. |
| morpholine | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 72 mg/m ³ 15 minutes. STEL: 20 ppm 15 minutes. TWA: 36 mg/m ³ 8 hours. TWA: 10 ppm 8 hours. |

Reportable hazardous constituent(s) contained in UVCB- and/or multi-constituent substance(s) complying with the classification criteria and/or with an exposure limit (OEL)

No exposure limit value known.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Advisory OEL : Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH (TLV) TWA 5 mg/m³ (highly refined)

DNELs/DMELs

| Product/substance | Type | Exposure | Value | Population | Effects |
|--|------|----------------------|-------------------------|--------------------|----------|
| Distillates (petroleum), hydrotreated light naphthenic | DNEL | Long term Oral | 0.74 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.97 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 1.19 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 2.73 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 5.58 mg/m ³ | Workers | Local |
| Alcohols, C16-18 and C18-unsatd., ethoxylated | DNEL | Long term Oral | 25 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 87 mg/m ³ | General population | Systemic |
| | DNEL | Long term Inhalation | 294 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 1250 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 2080 mg/kg bw/day | Workers | Systemic |
| 3-iodo-2-propynyl butylcarbamate | DNEL | Long term Inhalation | 0.023 mg/m ³ | Workers | Systemic |

SECTION 8: Exposure controls/personal protection

| | | | | | |
|---------------------|------|-----------------------|------------------------|--------------------|----------|
| glycerol | DNEL | Short term Inhalation | 0.07 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 1.16 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 1.16 mg/m ³ | Workers | Local |
| | DNEL | Long term Dermal | 2 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 33 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 56 mg/m ³ | Workers | Local |
| 2,2' -oxybisethanol | DNEL | Long term Oral | 229 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 12 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 12 mg/m ³ | General population | Systemic |
| | DNEL | Long term Inhalation | 60 mg/m ³ | Workers | Local |
| | DNEL | Long term Dermal | 21 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 43 mg/kg bw/day | Workers | Systemic |
| sodium hydroxide | DNEL | Long term Inhalation | 44 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 1 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 1 mg/m ³ | Workers | Local |
| morpholine | DNEL | Long term Dermal | 0.52 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 3.2 mg/m ³ | General population | Local |
| | DNEL | Short term Inhalation | 18 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 36 mg/m ³ | Workers | Local |
| | DNEL | Short term Oral | 38 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 45 mg/m ³ | General population | Systemic |
| | DNEL | Short term Inhalation | 72 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 91 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Dermal | 10 % | General population | Local |
| | DNEL | Long term Dermal | 10 % | General population | Local |
| | DNEL | Long term Oral | 0.3 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.84 mg/kg bw/day | Workers | Systemic |

PNECs

SECTION 8: Exposure controls/personal protection

| Product/substance | Compartment Detail | Value | Method Detail |
|--|------------------------|-----------------|--------------------|
| Distillates (petroleum), hydrotreated light naphthenic Alcohols, C16-18 and C18-unsatd., ethoxylated | Secondary Poisoning | 9.33 mg/kg wwt | Assessment Factors |
| | Fresh water | 0.002 mg/l | - |
| | Marine water | 0.002 mg/l | - |
| | Fresh water sediment | 6.33 mg/kg dwt | - |
| | Marine water sediment | 6.33 mg/kg dwt | - |
| | Soil | 1 mg/kg dwt | - |
| | Sewage Treatment Plant | 10000 mg/l | - |
| | Sewage Treatment Plant | 1000 mg/l | - |
| | Fresh water | 10 mg/l | - |
| | Marine water | 1 mg/l | - |
| glycerol | Fresh water sediment | 20.9 mg/kg dwt | - |
| 2,2' -oxybisethanol | Soil | 1.53 mg/kg dwt | - |
| | Sewage Treatment Plant | 199.5 mg/l | - |
| | Marine water sediment | 2.09 mg/kg dwt | - |
| | Fresh water | 0.1 mg/l | - |
| | Marine water | 0.01 mg/l | - |
| | Fresh water sediment | 1.49 mg/kg dwt | - |
| | Marine water sediment | 0.149 mg/kg dwt | - |
| | Soil | 0.239 mg/kg dwt | - |
| | Sewage Treatment Plant | 10 mg/l | - |
| | Plant | | |
| morpholine | Marine water sediment | 2.09 mg/kg dwt | - |
| | Fresh water | 0.1 mg/l | - |
| | Marine water | 0.01 mg/l | - |
| | Fresh water sediment | 1.49 mg/kg dwt | - |
| | Marine water sediment | 0.149 mg/kg dwt | - |
| | Soil | 0.239 mg/kg dwt | - |
| | Sewage Treatment Plant | 10 mg/l | - |
| | Plant | | |
| | | | |
| | | | |

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. EN 166

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

SECTION 8: Exposure controls/personal protection

Hydrocarbon-proof gloves
nitrile rubber
Fluorinated rubber
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Neoprene gloves.
In case of prolonged contact with the product, it is recommended to wear gloves complying with ISO 21420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry into confined spaces. In case of inadequate ventilation wear respiratory protection: Type A/P1. Warning ! filters have a limited use duration. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature (20°C / 68°F) and pressure (1013 hPa) unless otherwise indicated

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. [Clear to slightly cloudy]

Colour : Yellow.

Odour : Characteristic.

Odour threshold : Not available.

Melting point/freezing point : <5°C [EN ISO 3016]

Initial boiling point and boiling range : Not available.

Flammability (solid, gas) : Non-flammable.

Upper/lower flammability or explosive limits : Not available.

Flash point : Closed cup: Not applicable.
Open cup: >100°C (>212°F) [ASTM D 92]

Auto-ignition temperature : >100°C (>212°F) [ASTM E 659]

Decomposition temperature : Not applicable.

pH : 8.5

SECTION 9: Physical and chemical properties

Viscosity : Kinematic (40°C): 47 mm²/s [ISO 3104]

Solubility(ies) :

| Media | Result |
|-------|-------------|
| water | Not soluble |

Solubility in water : Emulsifiable fluid

Miscible with water : No.

Partition coefficient: n-octanol/ water : Not applicable.

Vapour pressure : Not available.

Relative density : 0.944 [EN ISO 12185]

Density : 0.944 g/cm³ [15°C (59°F)] [EN ISO 12185]

Vapour density : Not available.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

No other relevant physical and chemical parameters for the safe use of the product

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.

10.5 Incompatible materials : Strong oxidising agents
strong acids
Strong bases

10.6 Hazardous decomposition products : carbon monoxide
carbon dioxide
nitrogen oxides
Sodium oxides
sulfur oxides
Hydrogen sulfide
Mercaptans

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

| Product/substance | Result | Species | Dose | Exposure | Test |
|--|---------------------------------|--------------------|--------------------------------------|----------|---|
| Distillates (petroleum), hydrotreated light naphthenic | LC50 Inhalation Dusts and mists | Rat | >5 mg/l | 4 hours | OECD 403 |
| Alcohols, C16-18 and C18-unsatd., ethoxylated | LD50 Dermal | Rabbit | >5000 mg/kg | - | OECD 402 |
| | LD50 Oral | Rat | >5000 mg/kg | - | OECD 402 |
| | LC50 Inhalation Dusts and mists | Rat - Male, Female | >1600 mg/m ³ | 4 hours | OECD 403 |
| | LD50 Dermal | Rabbit | >2000 mg/kg | - | OECD 402 Acute Dermal Toxicity OECD 401 |
| 3-iodo-2-propynyl butylcarbamate | LD50 Oral | Rat - Male, Female | >2000 mg/kg | - | - |
| | LC50 Inhalation Dusts and mists | Rat | 0.67 mg/l | 4 hours | |
| | LD50 Dermal | Rabbit | 2500 mg/kg | - | |
| glycerol | LD50 Oral | Rat - Female | 1056 mg/kg | - | - |
| | LC50 Inhalation Dusts and mists | Rat | 5.1 mg/l | 4 hours | - |
| diethylene glycol | LD50 Oral | Rat | 12600 mg/kg | - | - |
| | LD50 Dermal | Rabbit | 11890 mg/kg | - | - |
| | LD50 Dermal | Rabbit | 13300 mg/kg | - | - |
| | LD50 Oral | Rat | 12000 mg/kg | - | - |
| | LD50 Oral | Rat | 500 mg/kg ATE value Category 4 | - | TEPA and OECD |
| morpholine | LC50 Inhalation Vapour | Rat | 8000 mg/m ³ | 4 hours | - |
| | LD50 Dermal | Rabbit | 1100 mg/kg | - | - |
| | LD50 Oral | Rat | 1738 mg/kg | - | - |
| | LD50 Oral | Rat - Male, Female | 1900 mg/kg | - | OECD 401 |

Conclusion/Summary : Based on available data, the classification criteria are not met.

Acute toxicity estimates

| Product/substance | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|----------------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| SPIRIT WBF 7200 | N/A | N/A | N/A | N/A | 263.8 |
| 3-iodo-2-propynyl butylcarbamate | 1056 | 2500 | N/A | N/A | 0.67 |
| glycerol | 12600 | N/A | N/A | N/A | 5.1 |
| 2,2'-oxybisethanol | 500 | 11890 | N/A | N/A | N/A |
| morpholine | 1738 | 1100 | N/A | 8 | N/A |

Irritation/Corrosion

| Product/substance | Result | Species | Score | Exposure | Test |
|---|------------------------|---------|-------|----------|----------|
| Alcohols, C16-18 and C18-unsatd., ethoxylated | Eyes - Cornea opacity | Rabbit | 0 | - | OECD 405 |
| | Skin - Erythema/Eschar | Rabbit | 2.3 | 4 hours | OECD 404 |
| 2,2'-oxybisethanol | Skin - Mild irritant | Rabbit | - | 500 mg | - |

SECTION 11: Toxicological information

Conclusion/Summary

- Skin** : Based on available data, the classification criteria are not met.
- Eyes** : Based on available data, the classification criteria are not met.
- Respiratory** : Based on available data, the classification criteria are not met.

Sensitisation

| Product/substance | Route of exposure | Species | Result |
|---|-------------------|------------|-----------------|
| Alcohols, C16-18 and C18-unsatd., ethoxylated 2,2' -oxybisethanol | skin | Guinea pig | Not sensitizing |
| | skin | Guinea pig | Not sensitizing |

Conclusion/Summary

- Skin** : Based on available data, the classification criteria are not met. Contains sensitiser May produce an allergic reaction.
- Respiratory** : Based on available data, the classification criteria are not met.

Mutagenicity

| Product/substance | Test | Experiment | Result |
|---|---|--|----------|
| Alcohols, C16-18 and C18-unsatd., ethoxylated 2,2' -oxybisethanol | OECD 474 | Experiment: In vitro Subject: Mammalian-Animal | Negative |
| | OECD 475 | Experiment: In vivo Subject: Mammalian-Animal | Negative |
| | OECD 471 Bacterial Reverse Mutation Test | Experiment: In vitro Subject: Bacteria Cell: Somatic | Negative |
| | OECD 473 In vitro Mammalian Chromosomal Aberration Test | Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic | Negative |
| | OECD 474 Mammalian Erythrocyte Micronucleus Test | Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic | Negative |

- Conclusion/Summary** : Based on available data, the classification criteria are not met.

Carcinogenicity

- Conclusion/Summary** : Based on available data, the classification criteria are not met.

Reproductive toxicity

| Product/substance | Maternal toxicity | Fertility | Developmental toxin | Species | Dose | Exposure |
|---|-------------------|-----------|---------------------|----------------------|--------|----------|
| Alcohols, C16-18 and C18-unsatd., ethoxylated 2,2' -oxybisethanol | Negative | Negative | - | Rat - Male, Female | Dermal | - |
| | Negative | Negative | Negative | Mouse - Male, Female | Oral | - |
| | Negative | Negative | Negative | Rat - Male, Female | Oral | - |

- Conclusion/Summary** : Based on available data, the classification criteria are not met.

Teratogenicity

| Product/substance | Result | Species | Dose | Exposure |
|---------------------|-----------------|---------|------|----------|
| 2,2' -oxybisethanol | Negative - Oral | Rat | - | - |

- Conclusion/Summary** : Based on available data, the classification criteria are not met.

SECTION 11: Toxicological information

Specific target organ toxicity (single exposure)

Not available.

Conclusion/Summary : Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)

| Product/substance | Category | Route of exposure | Target organs |
|----------------------------------|------------|-------------------|---------------|
| 3-iodo-2-propynyl butylcarbamate | Category 1 | - | larynx |

Conclusion/Summary : Based on available data, the classification criteria are not met.

Aspiration hazard

| Product/substance | Result |
|--|--------------------------------|
| Distillates (petroleum), hydrotreated light naphthenic | ASPIRATION HAZARD - Category 1 |

Conclusion/Summary : Based on available data, the classification criteria are not met.

Information on likely routes of exposure : Not available.

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Defatting to the skin. May cause skin dryness and irritation.
- Ingestion** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
dryness
cracking
- Ingestion** : No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Potential chronic health effects

SECTION 11: Toxicological information

| Product/substance | Result | Species | Dose | Exposure |
|---|------------------------|--------------------|------------|----------|
| Alcohols, C16-18 and C18-unsatd., ethoxylated 2,2' -oxybisethanol | Sub-acute NOAEL Oral | Rat - Male, Female | >500 mg/kg | - |
| | Sub-acute NOAEL Oral | Rat - Male, Female | 936 mg/kg | - |
| | Sub-chronic NOAEL Oral | Rat - Male, Female | 300 mg/kg | - |

| | |
|------------------------------|---|
| Conclusion/Summary | : Not available. |
| General | : No known significant effects or critical hazards. |
| Carcinogenicity | : No known significant effects or critical hazards. |
| Mutagenicity | : No known significant effects or critical hazards. |
| Reproductive toxicity | : No known significant effects or critical hazards. |

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACH Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

Harmful to aquatic life with long lasting effects.

12.1 Toxicity

| Product/substance | Result | Species | Exposure | Test |
|--|-------------------------|---|----------|-----------|
| Distillates (petroleum), hydrotreated light naphthenic | Acute EC50 >100 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours | OECD 201 |
| | Acute EC50 >10000 mg/l | Crustaceans - Daphnia magna | 48 hours | OECD 202 |
| | Acute LL50 >100 mg/l | Fish - Pimephales promelas | 96 hours | OECD 203 |
| | Chronic NOEL >100 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours | OECD 201 |
| | Chronic NOEL 10 mg/l | Crustaceans - Daphnia magna | 21 days | OECD 211 |
| Alcohols, C16-18 and C18-unsatd., ethoxylated | Acute EC50 >10 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours | OECD 201 |
| | Acute EC50 51 mg/l | Crustaceans - Daphnia magna | 48 hours | OECD 202 |
| | Acute LC50 108 mg/l | Fish - Danio rerio | 96 hours | OECD 203 |
| | Chronic EC10 0.2 mg/l | Algae - Desmodesmus subspicatus | 72 hours | QSAR |
| | Chronic NOEC 0.072 mg/l | Crustaceans - Daphnia magna | 21 days | OECD QSAR |
| | Chronic NOEC 0.3 mg/l | Fish - Pimephales promelas | 30 days | QSAR |

SECTION 12: Ecological information

| | | | | |
|----------------------------------|--------------------------------------|--|----------|----------|
| 3-iodo-2-propynyl butylcarbamate | Acute EC50 0.049 mg/l | Algae - Scenedesmus subspicatus | 72 hours | - |
| | Acute EC50 0.47 mg/l | Daphnia - Daphnia magna | 48 hours | - |
| | Acute EC50 44 mg/l | Micro-organism | 3 hours | - |
| | Acute LC50 500 ppb Fresh water | Crustaceans - Hyalella azteca | 48 hours | - |
| | Acute LC50 40 ppb Fresh water | Daphnia - Daphnia magna | 48 hours | - |
| | Acute LC50 0.145 mg/l | Fish | 96 hours | - |
| | Acute LC50 67 µg/l Fresh water | Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours | - |
| glycerol | Chronic EC50 0.05 mg/l | Daphnia - Daphnia magna | 21 days | - |
| | Chronic NOEC 8.4 ppb | Fish - Pimephales promelas | 35 days | US EPA |
| | Acute EC50 >10000 mg/l | Daphnia - Daphnia magna | 48 hours | - |
| diethylene glycol | Acute LC50 54000 mg/l | Fish - Oncorhynchus mykiss | 96 hours | - |
| | Acute EC50 >100 mg/l | Algae | 72 hours | - |
| | Acute EC50 62600 mg/l | Crustaceans - Daphnia magna | 48 hours | - |
| sodium hydroxide | Acute LC50 75200000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours | - |
| | Chronic NOEC >100 mg/l | Algae | 72 hours | - |
| | Acute EC50 40.38 mg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours | - |
| morpholine | Acute EC50 40.4 mg/l | Daphnia - Daphnia magna | 48 hours | - |
| | Acute LC50 35 mg/l | Fish | 96 hours | - |
| | Acute EC50 28 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours | NTP |
| | Acute EC50 45 mg/l | Daphnia - Daphnia magna | 48 hours | OECD 202 |
| | Acute LC50 180 mg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours | IRSA |
| | Acute NOEC 5 mg/l | Daphnia - Daphnia magna | 21 days | OECD 211 |

Conclusion/Summary : Not available.

12.2 Persistence and degradability

| Product/substance | Test | Result | Dose | Inoculum |
|--|-----------|--------------------------|------|------------------|
| Distillates (petroleum), hydrotreated light naphthenic Alcohols, C16-18 and C18-unsatd., ethoxylated 2,2' -oxybisethanol | OECD 301A | 96 % - Readily - 10 days | - | Activated sludge |
| | OECD 301B | 99 % - Readily - 28 days | - | Activated sludge |
| | OECD 301B | 75 % - Readily - 28 days | - | Activated sludge |

Conclusion/Summary : Not available.

SECTION 12: Ecological information

| Product/substance | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|------------------|
| Distillates (petroleum), hydrotreated light naphthenic | - | - | Readily |
| Alcohols, C16-18 and C18-unsatd., ethoxylated | - | - | Readily |
| 3-iodo-2-propynyl butylcarbamate | - | - | Readily |
| morpholine | - | - | Readily |

12.3 Bioaccumulative potential

| Product/substance | LogP _{ow} | BCF | Potential |
|---|--------------------|------|-----------|
| Alcohols, C16-18 and C18-unsatd., ethoxylated | 4.6 | - | high |
| 3-iodo-2-propynyl butylcarbamate | 2.81 | - | low |
| morpholine | <3 | <2.8 | low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

Mobility in soil : Given its physical and chemical characteristics, the product is generally mobile in the ground. May contaminate ground water. Forms an emulsion the product may evaporate.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACH Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

SECTION 13: Disposal considerations

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- Hazardous waste** : Yes.
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used. The following Waste Codes are only suggestions: 12 01 08*
- Packaging**
- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | ICAO/IATA |
|--|----------------|---|----------------|----------------|
| 14.1 UN number or ID number | Not regulated. | 9006 | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name | - | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alcohols, C16-18 and C18-unsatd., ethoxylated, 3-iodo-2-propynyl butylcarbamate) | - | - |
| 14.3 Transport hazard class(es) | - | 9 | - | - |
| 14.4 Packing group | - | - | - | - |
| 14.5 Environmental hazards | No. | Yes. | No. | No. |

Additional information

- ADN** : The product is only regulated as a dangerous good when transported in tank vessels.

SECTION 14: Transport information

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
UK (GB) /REACH

[Annex XIV - List of substances subject to authorisation](#)

[Annex XIV](#)

None of the components are listed.

[Substances of very high concern](#)

None of the components are listed.

[Ozone depleting substances](#)

Not listed.

[Prior Informed Consent \(PIC\)](#)

Not listed.

[Persistent Organic Pollutants](#)

Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

[Seveso Directive](#)

This product is not controlled under the Seveso Directive.

[EU regulations](#)

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

DIRECTIVE 2008/68/EC related on the inland transport of dangerous goods

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

[International regulations](#)

[Chemical Weapon Convention List Schedules I, II & III Chemicals](#)

SECTION 15: Regulatory information

| List name | Ingredient name | Status |
|--------------|-----------------|--------|
| Schedule III | Triethanolamine | Listed |

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

| | |
|---|--|
| Australia inventory (AIIC) | : Not determined. |
| Canada inventory | : Not determined. |
| China inventory (IECSC) | : Not determined. |
| Europe inventory | : All components are listed or exempted. |
| Japan inventory | : Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined. |
| New Zealand Inventory of Chemicals (NZIoC) | : Not determined. |
| Philippines inventory (PICCS) | : Not determined. |
| Korea inventory (KECI) | : Not determined. |
| Taiwan Chemical Substances Inventory (TCSI) | : Not determined. |
| Thailand inventory | : Not determined. |
| Turkey inventory | : Not determined. |
| United States inventory (TSCA 8b) | : Not determined. |
| Vietnam inventory | : Not determined. |

The information stated in this section relates solely to the conformity of the chemical product with the countries Inventories. The information used to confirm the inventory status of this product may be based on additional data to the chemical composition shown in Section 3. Other regulations may apply for importation or marketing authorizations.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
DMEL = Derived Minimal Effect Level
EUH statement = CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic

SECTION 16: Other information

vPvB = Very Persistent and Very Bioaccumulative
 PNEC = Predicted No Effect Concentration
 LC50 = Median lethal concentration
 LD50 = Median lethal dose
 OEL = Occupational Exposure Limit
 VOC = Volatile Organic Compound
 UVCB Substance of unknown or Variable composition, Complex reaction products or Biological material
 NOEC No Observed Effect Concentration
 QSAR = Quantitative Structure–Activity Relationship

Procedure used to derive the classification

| Classification | Justification |
|-------------------------|--------------------|
| Aquatic Chronic 3, H412 | Calculation method |

Full text of abbreviated H statements

| | |
|------|---|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H331 | Toxic if inhaled. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Full text of classifications

| | |
|-------------------|---|
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Skin Corr. 1A | SKIN CORROSION/IRRITATION - Category 1A |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| STOT RE 1 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 |

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Notice to reader

SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mixture
Code : 37570
Product name : SPIRIT WBF 7200

Section 1 - Title

Short title of the exposure scenario : Use of lubricants in high energy open processes - Industrial
List of use descriptors : **Identified use name:** Use of lubricants in high energy open processes - Industrial
Process Category: PROC01, PROC02, PROC08b, PROC17, PROC18
Sector of end use: SU03
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC04
Environmental contributing scenarios :
Health Contributing scenarios :

Processes and activities covered by the exposure scenario : Covers use of lubricants in high energy open processes, e.g. In high speed machinery such as metal rolling/forming or metal working fluids for machining and grinding. Includes associated product storage, material transfers, sampling and maintenance activities.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:

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Amounts used : Volume manufactured/imported (tonnes/year) : 8.20E-11
Fraction of EU tonnage used in region : 0.1
Fraction of Regional tonnage used locally : 0.1
Frequency and duration of use : Emission days (days per year) : 300
Environment factors not influenced by risk management : Local freshwater dilution factor : 10
Local marine water dilution factor : 100
Other conditions affecting environmental exposure : Water-based (oil in water emulsion) or straight oil (contains no water) process
Release fraction to air from process (after typical onsite RMMs consistent with EU Solvent Emissions Directive requirements) : 5.0E-05
Release fraction to wastewater from process (after typical onsite RMMs and before (municipal) sewage treatment plant): 8.20E-11
Release fraction to soil from process (after typical onsite RMMs): 0
Technical conditions and measures at process level (source) to prevent release : Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil : Treat air emission to provide a typical removal efficiency of (%) : 70
Prevent discharge of undissolved substance to or recover from onsite wastewater.
User sites are assumed to be provided with oil/water separators and for waste water to be discharged via public sewer system.
Organisational measures to prevent/limit release from site : Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.

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| | |
|--|--|
| Conditions and measures related to sewage treatment plant | : Estimated substance removal from wastewater via domestic sewage treatment (%): (%) : 87 Assumed domestic sewage treatment plant flow (m ³ /d) : 2.00E+03 Maximum allowable site tonnage (M _{Safe}) based on release following total wastewater treatment removal (kg/day) : 3 882 |
| Conditions and measures related to external treatment of waste for disposal | : External treatment and disposal of waste should comply with applicable local and/or national regulations. |
| Conditions and measures related to external recovery of waste | : External recovery and recycling of waste should comply with applicable local and/or national regulations. |

Contributing scenario controlling worker exposure for 2:

No exposure assessment presented for human health.

Conditions and measures related to personal protection, hygiene and health evaluation**Section 3 - Exposure estimation and reference to its source**

| | |
|--|---|
| Website: | : Not applicable. |
| Exposure estimation and reference to its source - Environment: 1: | |
| Exposure assessment (environment): | : Used ECETOC TRA model. |
| Exposure estimation and reference to its source | : Not available. |
| Exposure estimation and reference to its source - Workers: 2: | |
| Exposure assessment (human): | : The risk Management Measures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product. |
| Exposure estimation and reference to its source | : Not available. |

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

| | |
|--------------------|--|
| Environment | : Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.atiel.org/reach/introduction . |
| Health | : Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. For further information see www.atiel.org/reach/introduction . |

Additional good practice advice beyond the REACH CSA

| | |
|--------------------|------------------|
| Environment | : Not available. |
| Health | : Not available. |

Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mixture
Code : 37570
Product name : SPIRIT WBF 7200

Section 1 - Title

Short title of the exposure scenario : Formulation additives, lubricants and greases - Industrial
List of use descriptors : **Identified use name:** Formulation additives, lubricants and greases - Industrial
Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a, PROC08b, PROC09, PROC15
Sector of end use: SU03, SU10
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC02
Environmental contributing scenarios :
Health Contributing scenarios :

| | |
|---|---|
| Processes and activities covered by the exposure scenario | : Industrial formulation of lubricant additives, lubricants and greases. Includes material transfers, mixing, large and small scale packing, sampling, maintenance. |
|---|---|

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:

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| | |
|---|--|
| Amounts used | : Volume manufactured/imported (tonnes/year) : 1.00E+04 Fraction of EU tonnage used in region : 0.1 Fraction of Regional tonnage used locally : 0.1 |
| Frequency and duration of use | : Emission days (days per year) : 300 |
| Environment factors not influenced by risk management | : Local freshwater dilution factor : 10 Local marine water dilution factor : 100 |
| Other conditions affecting environmental exposure | : Negligible wastewater emissions as process operates without water contact. Release fraction to air from process (after typical onsite RMMs consistent with EU Solvent Emissions Directive requirements) : 5.00E-05 Release fraction to wastewater from process (after typical onsite RMMs and before (municipal) sewage treatment plant): 8.20E-11 Release fraction to soil from process (after typical onsite RMMs): 0 |
| Technical conditions and measures at process level (source) to prevent release | : Common practices vary across sites thus conservative process release estimates used. |
| Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil | : Treat air emission to provide a typical removal efficiency of (%) : 70 Prevent discharge of undissolved substance to or recover from onsite wastewater. User sites are assumed to be provided with oil/water separators and for waste water to be discharged via public sewer system. |
| Organisational measures to prevent/limit release from site | : Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed. |

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| | |
|--|--|
| Conditions and measures related to sewage treatment plant | : Estimated substance removal from wastewater via domestic sewage treatment (%): (%) : 87 Assumed domestic sewage treatment plant flow (m ³ /d) : 2.00E+03 Maximum allowable site tonnage (M _{safe}) based on release following total wastewater treatment removal (kg/day) : 163 273 |
| Conditions and measures related to external treatment of waste for disposal | : External treatment and disposal of waste should comply with applicable local and/or national regulations. |
| Conditions and measures related to external recovery of waste | : External recovery and recycling of waste should comply with applicable local and/or national regulations. |

Contributing scenario controlling worker exposure for 2:

No exposure assessment presented for human health.

Conditions and measures related to personal protection, hygiene and health evaluation**Section 3 - Exposure estimation and reference to its source****Website:** : Not applicable.**Exposure estimation and reference to its source - Environment: 1:****Exposure assessment (environment):** : Used ECETOC TRA model.**Exposure estimation and reference to its source** : Not available.**Exposure estimation and reference to its source - Workers: 2:****Exposure assessment (human):** : The risk Management Measures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.**Exposure estimation and reference to its source** : Not available.**Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES**

| | |
|--------------------|--|
| Environment | : Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.atiel.org/reach/introduction . |
| Health | : Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. For further information see www.atiel.org/reach/introduction . |

Additional good practice advice beyond the REACH CSA

| | |
|--------------------|------------------|
| Environment | : Not available. |
| Health | : Not available. |

Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mixture
Code : 37570
Product name : SPIRIT WBF 7200

Section 1 - Title

Short title of the exposure scenario : Handling and dilution of metal working fluid concentrates - Industrial
List of use descriptors : **Identified use name:** Handling and dilution of metal working fluid concentrates - Industrial
Process Category: PROC01, PROC02, PROC05, PROC08b
Sector of end use: SU03
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC02
Environmental contributing scenarios :
Health Contributing scenarios :

| | |
|---|--|
| Processes and activities covered by the exposure scenario | : Handling and dilution of metal working fluid concentrates. Includes associated product storage, material transfers, sampling and maintenance activities. |
|---|--|

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:

ATIEL-ATC SPERC 2.Ei.v1

| | |
|---|--|
| Amounts used | : Volume manufactured/imported (tonnes/year) : 3.02E+02 Fraction of EU tonnage used in region : 0.1 Fraction of Regional tonnage used locally : 0.1 |
| Frequency and duration of use | : Emission days (days per year) : 300 |
| Environment factors not influenced by risk management | : Local freshwater dilution factor : 10 Local marine water dilution factor : 100 |
| Other conditions affecting environmental exposure | : Water-based (oil in water emulsion) or straight oil (contains no water) process Release fraction to air from process (after typical onsite RMMs consistent with EU Solvent Emissions Directive requirements) : 5.0E-05 Release fraction to wastewater from process (after typical onsite RMMs and before (municipal) sewage treatment plant): 8.20E-11 Release fraction to soil from process (after typical onsite RMMs): 0 |
| Technical conditions and measures at process level (source) to prevent release | : Common practices vary across sites thus conservative process release estimates used. |
| Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil | : Treat air emission to provide a typical removal efficiency of (%) : 70 Prevent discharge of undissolved substance to or recover from onsite wastewater. User sites are assumed to be provided with oil/water separators and for waste water to be discharged via public sewer system. |
| Organisational measures to prevent/limit release from site | : Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed. |

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| Conditions and measures related to sewage treatment plant | : Estimated substance removal from wastewater via domestic sewage treatment (%): (%) : 87 Assumed domestic sewage treatment plant flow (m ³ /d) : 2.00E+03 Maximum allowable site tonnage (M _{Safe}) based on release following total wastewater treatment removal (kg/day) : 5 706 |
| Conditions and measures related to external treatment of waste for disposal | : External treatment and disposal of waste should comply with applicable local and/or national regulations. |
| Conditions and measures related to external recovery of waste | : External recovery and recycling of waste should comply with applicable local and/or national regulations. |

Contributing scenario controlling worker exposure for 2:

No exposure assessment presented for human health.

Conditions and measures related to personal protection, hygiene and health evaluation**Section 3 - Exposure estimation and reference to its source****Website:** : Not applicable.**Exposure estimation and reference to its source - Environment: 1:****Exposure assessment (environment):** : Used ECETOC TRA model.**Exposure estimation and reference to its source** : Not available.**Exposure estimation and reference to its source - Workers: 2:****Exposure assessment (human):** : The risk Management Measures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.**Exposure estimation and reference to its source** : Not available.**Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES**

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| Environment | : Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.atiel.org/reach/introduction . |
| Health | : Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. For further information see www.atiel.org/reach/introduction . |

Additional good practice advice beyond the REACH CSA

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| Environment | : Not available. |
| Health | : Not available. |

Annex to the extended Safety Data Sheet (eSDS)

Professional

Identification of the substance or mixture

Product definition : Mixture
Code : 37570
Product name : SPIRIT WBF 7200

Section 1 - Title

Short title of the exposure scenario : Use of lubricants in high energy open processes - Professional
List of use descriptors : **Identified use name:** Use of lubricants in high energy open processes - Professional
Process Category: PROC01, PROC02, PROC08a, PROC17, PROC18
Sector of end use: SU22
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC08a
Environmental contributing scenarios :
Health Contributing scenarios :

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| Processes and activities covered by the exposure scenario | : Covers use of lubricants in high energy open processes, e.g. In high speed machinery such as metal rolling/forming or metal working fluids for machining and grinding. Includes associated product storage, material transfers, sampling and maintenance activities. |
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Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:

ATIEL-ATC SPERC 8.Fp.v1

Amounts used : Volume manufactured/imported (tonnes/year) : 2.05E+02
Fraction of EU tonnage used in region : 0.1
Fraction of Regional tonnage used locally : 0.1

Frequency and duration of use : Emission days (days per year) : 365

Environment factors not influenced by risk management : Local freshwater dilution factor : 10
Local marine water dilution factor : 100

Other conditions affecting environmental exposure : Water-based (oil in water emulsion) or straight oil (contains no water) process
Release fraction to air from process (after typical onsite RMMs consistent with EU Solvent Emissions Directive requirements) : 1.00E-04
Release fraction to wastewater from process (after typical onsite RMMs and before (municipal) sewage treatment plant): 1.00E-03
Release fraction to soil from process (after typical onsite RMMs): 1.00E-03

Technical conditions and measures at process level (source) to prevent release : Common practices vary across sites thus conservative process release estimates used.

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil : Prevent discharge of undissolved substance to or recover from onsite wastewater.

Organisational measures to prevent/limit release from site : Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.

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| Conditions and measures related to sewage treatment plant | : Estimated substance removal from wastewater via domestic sewage treatment (%): (%) : 87 Assumed domestic sewage treatment plant flow (m³/d) : 2.00E+03 Maximum allowable site tonnage (M _{Safe}) based on release following total wastewater treatment removal (kg/day) : 62 |
| Conditions and measures related to external treatment of waste for disposal | : External treatment and disposal of waste should comply with applicable local and/or national regulations. |
| Conditions and measures related to external recovery of waste | : External recovery and recycling of waste should comply with applicable local and/or national regulations. |

Contributing scenario controlling worker exposure for 2:

No exposure assessment presented for human health.

Conditions and measures related to personal protection, hygiene and health evaluation**Section 3 - Exposure estimation and reference to its source****Website:** : Not applicable.**Exposure estimation and reference to its source - Environment: 1:****Exposure assessment (environment):** : Used ECETOC TRA model.**Exposure estimation and reference to its source** : Not available.**Exposure estimation and reference to its source - Workers: 2:****Exposure assessment (human):** : The risk Management Measures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.**Exposure estimation and reference to its source** : Not available.**Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES**

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| Environment | : Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.atiel.org/reach/introduction . |
| Health | : Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. For further information see www.atiel.org/reach/introduction . |

Additional good practice advice beyond the REACH CSA

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| Environment | : Not available. |
| Health | : Not available. |