



SAFETY DATA SHEET

XF020 - DURAGLIDE DRY LUBRICANT (2% PTFE SOLIDS) - BULK

According to WHMIS 2015, in compliance with the Hazardous Product Act (HPA, as amended) and the requirements of the Hazardous Product Regulations (HPR)

1. Identification

Product identifier

| | |
|-------------------------------|--|
| Product name | XF020 - DURAGLIDE DRY LUBRICANT (2% PTFE SOLIDS) - BULK |
| Product number | MCC-XF020, MCC-XF020D, MCC-XF020P, MCC-XF020G, MCC-XF020GL, MCC-XF020L |
| Synonyms; Common Names | MCC-XF020D, MCC-XF020P, MCC-XF020G, MCC-XF020GL, MCC-XF020L |

Recommended use of the chemical and restrictions on use

| | |
|-----------------------------|--|
| Restriction on use | Lubricant. |
| Uses advised against | No specific uses advised against are identified. |

Details of the supplier of the safety data sheet

| | |
|---------------------|--|
| Supplier | MICROCARE LLC |
| Manufacturer | MICROCARE LLC 595 John Downey Drive New Britain, CT 06051 United States of America CAGE: OATV9 Tel: +1 800-638-0125, +1 860-827-0626 techsupport@microcare.com |

Emergency telephone number

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|----------------------------|--|
| Emergency telephone | INFOTRAC 1-800-535-5053 (CANADA and U.S.A.) 1-352-323-3500 (from anywhere in the world) |
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2. Hazard identification

Classification of the substance or mixture

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|--------------------------------|--|
| WHMIS Regulatory Status | This product has been classified according to the hazard criteria of the Hazardous Product Regulations and the SDS contains all required information. |
| Physical hazards | Not Classified |
| Health hazards | Not Classified |
| Environmental hazards | Aquatic Chronic 3 - H412 |
| Human health | Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. Mild dermatitis, allergic skin rash. |
| Environmental | The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. |
| Physicochemical | Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. Gas or vapour displaces oxygen available for breathing (asphyxiant). |

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Label elements

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| Hazard statements | H412 Harmful to aquatic life with long lasting effects. |
| Precautionary statements | P273 Avoid release to the environment. P501 Dispose of contents/ container in accordance with national regulations. |
| Supplemental label information | Safety data sheet available on request. For use in industrial installations only. |

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

| | |
|---|----------------|
| 1,1,1,2,2,3,4,5,5,5-decafluoropentane | 60-100% |
| CAS number: 138495-42-8 | |
| Classification Aquatic Chronic 3 - H412 | |
| Poly-tfe, omega-hydro-alpha-(methylcyclohexyl) | 1-5% |
| CAS number: 65530-85-0 | |
| Classification Not Classified | |

The full text for all hazard statements is displayed in Section 16.

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| Composition comments | TSCA: The ingredients of this product are on the TSCA Inventory. The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of CFR 1900.1200 |
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Composition

4. First-aid measures

Description of first aid measures

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| General information | If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel. |
| Inhalation | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist. |
| Ingestion | Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel. |
| Skin contact | Rinse with water. |
| Eye contact | Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues. |
| Protection of first aiders | First aid personnel should wear appropriate protective equipment during any rescue. |

Most important symptoms and effects, both acute and delayed

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| General information | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
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| Inhalation | Vapours in high concentrations are anesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression. |
| Ingestion | May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication. |
| Skin contact | Product has a defatting effect on skin. May cause allergic contact eczema. |
| Eye contact | May cause temporary eye irritation. |

Indication of any immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the hazardous product

Specific hazards Fire-water run-off in sewers may create fire or explosion hazard.

Hazardous combustion products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen. Hydrogen fluoride (HF). Halogenated hydrocarbons.

Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing that provides a basic level of protection during chemical incidents is defined by the Canada Occupational Health and Safety Regulations, by provincial guidelines on occupational health and safety or by NFPA standards if applicable.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes contaminated.

Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

Methods and material for containment and cleaning up

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Methods for cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Absorb small quantities with paper towels and evaporate in a safe place. Once evaporation is complete, place paper in a suitable waste disposal container and seal securely. Large Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. The contaminated absorbent may pose the same hazard as the spilled material. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.

Reference to other sections

Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards.

7. Handling and storage

Precautions for safe handling

Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage precautions

Store away from incompatible materials (see Section 10). Keep away from oxidizing materials, heat and flames. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.

Reference to other sections.

Store away from incompatible materials (see Section 10).

8. Exposure controls/Personal protection

Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

Hand protection

No specific hand protection recommended. Avoid contact with skin.

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| Other skin and body protection | Wear appropriate clothing to prevent repeated or prolonged skin contact. |
| Hygiene measures | Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product. |
| Respiratory protection | Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with the Canadian regulation on health and safety at work, SOR/86-304, Part XII (12.7), and any relevant provincial regulation relating to health and safety at work. Full face mask respirators with replaceable filter cartridges should comply with the Canadian regulation on health and safety at work, SOR/86-304, Part XII (12.7), and any relevant provincial regulation relating to health and safety at work. Half mask and quarter mask respirators with replaceable filter cartridges should comply with the Canadian regulation on health and safety at work, SOR/86-304, Part XII (12.7), and any relevant provincial regulation relating to health and safety at work. |
| Thermal hazards | Keep away from heat, sparks and open flame. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours. |
| Environmental exposure controls | Keep container tightly sealed when not in use. 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. |

9. Physical and chemical properties

Information on basic physical and chemical properties

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|---|---|
| Appearance | Opaque liquid. Liquid. Waxy solid. |
| Colour | White/off-white. |
| Odour | Slight. Ether. |
| Odour threshold | No information available. |
| pH | Not applicable. |
| Melting point | No information available. |
| Initial boiling point and range | 55°C/131°F @ 101.3 kPa |
| Flash point | Not relevant. Technically not feasible. |
| Evaporation rate | No information available. |
| Evaporation factor | No information available. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | Not applicable. |
| Other flammability | The product is not flammable. |
| Vapour density | 4 |
| Relative density | 1.39 |
| Bulk density | No information available. |
| Solubility(ies) | Insoluble in water. |
| Partition coefficient | No information available. |

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| Auto-ignition temperature | Not relevant. |
| Viscosity | No information available. |
| Explosive properties | No information available. |
| Global Warming Potential (GWP) | |
| Surface tension | |
| Refractive index | No information available. |
| Particle size | Not applicable. |
| Molecular weight | Not applicable. |
| Volatility | 98% |
| Saturation concentration | No information available. |
| Critical temperature | No information available. |
| Volatile organic compound | No information available. |
| Heat of vaporization (at boiling point), cal/g (Btu/lb) | |

10. Stability and reactivity

| | |
|---|--|
| Reactivity | See the other subsections of this section for further details. |
| Stability | Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions. |
| Possibility of hazardous reactions | The following materials may react strongly with the product: Oxidizing agents. |
| Materials to avoid | Oxidizing materials. Acids - oxidizing. |
| Hazardous decomposition products | Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. |

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

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Respiratory sensitization

Respiratory sensitization Based on available data the classification criteria are not met.

Skin sensitization

Skin sensitization Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicity

None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation

No specific symptoms known.

Ingestion

No specific symptoms known.

Skin contact

No specific symptoms known.

Eye contact

No specific symptoms known.

Route of exposure

Ingestion Inhalation Skin and/or eye contact

Target organs

No specific target organs known.

Toxicological information on ingredients

1,1,1,2,2,3,4,5,5,5-decafluoropentane

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,000.0

Species Rat

ATE oral (mg/kg) 5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,000.0

Species Rat

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| | |
|---|--|
| ATE dermal (mg/kg) | 5,000.0 |
| <u>Acute toxicity - inhalation</u> | |
| Acute toxicity inhalation (LC₅₀ vapours mg/l) | 114.0 |
| Species | Rat |
| ATE inhalation (vapours mg/l) | 114.0 |
| <u>Skin corrosion/irritation</u> | |
| Animal data | Not irritating. Rabbit |
| Human skin model test | Data lacking. |
| Extreme pH | Not applicable. Not corrosive to skin. |
| <u>Serious eye damage/irritation</u> | |
| Serious eye damage/irritation | Not irritating. Rabbit |
| <u>Respiratory sensitization</u> | |
| Respiratory sensitization | Data lacking. |
| <u>Skin sensitization</u> | |
| Skin sensitization | Not sensitising. - Guinea pig: Not sensitising. |
| <u>Germ cell mutagenicity</u> | |
| Genotoxicity - in vitro | This substance has no evidence of mutagenic properties. |
| Genotoxicity - in vivo | This substance has no evidence of mutagenic properties. |
| <u>Carcinogenicity</u> | |
| Carcinogenicity | Does not contain any substances known to be carcinogenic. |
| IARC carcinogenicity | Not listed. |
| <u>Reproductive toxicity</u> | |
| Reproductive toxicity - fertility | No evidence of reproductive toxicity in animal studies. |
| . | |
| Skin contact | Skin irritation should not occur when used as recommended. May cause defatting of the skin but is not an irritant. |
| Eye contact | May cause eye irritation. |
| Acute and chronic health hazards | There is no evidence that the product can cause cancer. |

12. Ecological information

Ecological information on ingredients

1,1,1,2,2,3,4,5,5,5-decafluoropentane

| | |
|--------------------|---|
| Ecotoxicity | It is unlikely that the substance will dissolve in water in amounts big enough to have a toxic effect on fish and daphnies. |
|--------------------|---|

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Toxicity Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

Ecological information on ingredients

1,1,1,2,2,3,4,5,5,5-decafluoropentane

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 13.9 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates LC₅₀, 48 hours: 11.7 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: >120 mg/l, Algae

Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

Ecological information on ingredients

1,1,1,2,2,3,4,5,5,5-decafluoropentane

Bioaccumulative potential Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

Partition coefficient Pow: 2.7

Mobility in soil

Mobility No data available.

Other adverse effects

Other adverse effects None known.

13. Disposal considerations

Waste treatment methods

General information The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

14. Transport information

General Not regulated.

UN number

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UN No. (International) No information required.

UN No. (DOT) No information required.

UN proper shipping name

Proper shipping name (International) No information required.

Proper shipping name (DOT) No information required.

Transport hazard class(es)

Transport Labels (International) No information required.

Packing group

Packing group (International) No information required.

Special precautions for user

Not applicable.

15. Regulatory information**Inventories****Canada – DSL/NDSL**

Yes

Phillippines – PICCS

Not listed.

Taiwan - TCSI

Not listed.

New Zealand - NZIOC

Not listed.

16. Other information

Classification abbreviations and acronyms Flam. Liq. = Flammable liquid
Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Training advice Only trained personnel should use this material.

Revision date 2021-07-30

Revision 22

Supersedes date 2021-07-29

SDS number BULK - XF020

SDS status Approved.

Hazard statements in full H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.