<table>
<thead>
<tr>
<th>SECTION 1: Identification of the substance/mixture and of the company/undertaking</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1.1. Product identifier</strong></td>
</tr>
<tr>
<td><strong>Product name</strong></td>
</tr>
<tr>
<td><strong>Product number</strong></td>
</tr>
<tr>
<td><strong>1.2. Relevant identified uses of the substance or mixture and uses advised against</strong></td>
</tr>
<tr>
<td><strong>Identified uses</strong></td>
</tr>
<tr>
<td><strong>1.3. Details of the supplier of the safety data sheet</strong></td>
</tr>
<tr>
<td><strong>Supplier</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
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<tr>
<td></td>
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<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Manufacturer</strong></td>
</tr>
<tr>
<td></td>
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<td></td>
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<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>1.4. Emergency telephone number</strong></td>
</tr>
<tr>
<td><strong>Emergency telephone</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECTION 2: Hazards identification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2.1. Classification of the substance or mixture</strong></td>
</tr>
<tr>
<td><strong>Classification (EC 1272/2008)</strong></td>
</tr>
<tr>
<td><strong>Physical hazards</strong></td>
</tr>
<tr>
<td><strong>Health hazards</strong></td>
</tr>
<tr>
<td><strong>Environmental hazards</strong></td>
</tr>
<tr>
<td><strong>Human health</strong></td>
</tr>
<tr>
<td><strong>Physicochemical</strong></td>
</tr>
<tr>
<td><strong>2.2. Label elements</strong></td>
</tr>
</tbody>
</table>
DGF14A - Duraglide Dry Lubricant, Aerosol

Signal word
Warning

Hazard statements
H229 Pressurised container: may burst if heated

Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501 Dispose of contents/ container in accordance with local regulations.

Supplemental label information
EUH210 Safety data sheet available on request.
RCH001a For use in industrial installations only.

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Substance</th>
<th>Percentage</th>
<th>CAS number</th>
<th>EC number</th>
<th>REACH registration number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFC-134a Tetrafluoroethane</td>
<td>60-100%</td>
<td>811-97-2</td>
<td>212-377-0</td>
<td>05-2114285300-58-0000</td>
</tr>
<tr>
<td>Classification</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Press. Gas, Liquefied - H280</td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>Percentage</th>
<th>CAS number</th>
<th>EC number</th>
<th>REACH registration number</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROPAN-2-OL</td>
<td>1-5%</td>
<td>67-63-0</td>
<td>200-661-7</td>
<td>05-2114285306-46-0000</td>
</tr>
<tr>
<td>Classification</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flam. Liq. 2 - H225</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eye Irrit. 2 - H319</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STOT SE 3 - H336</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>Percentage</th>
<th>CAS number</th>
<th>EC number</th>
<th>REACH registration number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly-tfe, omega-hydro-alpha-(methylcyclohexyl)</td>
<td>&lt;1%</td>
<td>65530-85-0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classification</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not Classified</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Composition comments
The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Never give anything by mouth to an unconscious person. Do not induce vomiting. Place unconscious person on the side in the recovery position and ensure breathing can take place. If breathing stops, provide artificial respiration. Consult a physician for specific advice.
DGF14A - Duraglide Dry Lubricant, Aerosol

Inhalation
Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention.

Ingestion
Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Get medical attention.

Skin contact
Remove contaminated clothing and rinse skin thoroughly with water.

Eye contact
Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Consult a physician for specific advice.

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

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

Inhalation
Coughing, chest tightness, feeling of chest pressure. Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.

Ingestion
Contact with liquid form may cause frostbite. May cause nausea, headache, dizziness and intoxication.

Skin contact
Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. Contact with liquid form may cause frostbite.

Eye contact
Severe irritation, burning and tearing. Irritation and redness, followed by blurred vision.

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media
The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture
Specific 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. Aerosol containers can explode when heated, due to excessive pressure build-up.

5.3. Advice for firefighters
Protective actions during firefighting
Move containers from fire area if it can be done without risk. Bursting aerosol containers may be propelled from a fire at high speed.

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions
Warn everybody of potential hazards and evacuate if necessary. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level.

6.2. Environmental precautions
DGF14A - Duraglide Dry Lubricant, Aerosol

**Environmental precautions**
Contain spillage with sand, earth or other suitable non-combustible material. Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

**Methods for cleaning up**
Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely.

**6.4. Reference to other sections**

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Usage precautions**
Provide adequate ventilation. Avoid inhalation of vapours/spray and contact with skin and eyes. In case of spills, beware of slippery floors and surfaces. Keep away from heat, sparks and open flame. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours. Keep out of the reach of children.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage precautions**
Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C.

**7.3. Specific end use(s)**

**Specific end use(s)**
The identified uses for this product are detailed in Section 1.2.

**Usage description**
Lubricant.

Reference to other sections Store away from incompatible materials (see Section 10).

**SECTION 8: Exposure Controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limits**

**HFC-134a Tetrafluoroethane**
Long-term exposure limit (8-hour TWA): WEL 1000 ppm 4240 mg/m³

**PROPAN-2-OL**
Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³
Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³
WEL = Workplace Exposure Limit

**Additional Occupational Exposure Limits**

**Ingredient comments**
WEL = Workplace Exposure Limits

**8.2. Exposure controls**

**Protective equipment**
**DGF14A - Duraglide Dry Lubricant, Aerosol**

### Appropriate engineering controls
No specific ventilation requirements. This product must not be handled in a confined space without adequate ventilation.

### Eye/face protection
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

### Hand protection
Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber).

### Other skin and body protection
Wear suitable protective clothing as protection against splashing or contamination. Wear apron or protective clothing in case of contact.

### Hygiene measures
No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products. When using do not eat, drink or smoke.

### Respiratory protection
Considering the size of the packaging, the risk is regarded as minimal. Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. In confined or poorly-ventilated spaces, a supplied-air respirator must be worn. Wear self-contained breathing apparatus with full facepiece.

### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid. Aerosol.</td>
</tr>
<tr>
<td>Colour</td>
<td>White/off-white. Waxy solid.</td>
</tr>
<tr>
<td>Odour</td>
<td>Slight alcoholic.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined.</td>
</tr>
<tr>
<td>pH</td>
<td>No information available.</td>
</tr>
<tr>
<td>Melting point</td>
<td>PTFE Content only 300°C/581°F</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>-26.5°C/-15.7°F @ 101.3 kPa</td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available.</td>
</tr>
<tr>
<td>Evaporation factor</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Other flammability</td>
<td>The product is not flammable.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>663 kPa @ 25°C</td>
</tr>
<tr>
<td>Vapour density</td>
<td>3.18 @ 25 (C) / 77 (F)</td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Bulk density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Solubility (ies)</td>
<td>Slightly soluble in water.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No information available.</td>
</tr>
</tbody>
</table>
DGF14A - Duraglide Dry Lubricant, Aerosol

Decomposition Temperature  No information available.
Viscosity  No information available.
Explosive properties  No information available.
Comments  Aerosol.

9.2. Other information
Refractive index  No information available.
Particle size  1-15 micron
Molecular weight  No information available.
Volatility  98.5%
Saturation concentration  No information available.
Critical temperature  No information available.
Volatile organic compound  No information available.
UDF Phrase 1  The product is not flammable.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity  There are no known reactivity hazards associated with this product.

10.2. Chemical stability
Stability  Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions  Will not polymerise.

10.4. Conditions to avoid
Conditions to avoid  Keep away from heat, sparks and open flame. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours.

10.5. Incompatible materials
Materials to avoid  Alkali metals. Alkaline earth metals. Powdered metal.

10.6. Hazardous decomposition products
Hazardous decomposition products  Heating may generate the following products: Toxic and corrosive gases or vapours. Halogenated hydrocarbons. Hydrogen fluoride (HF). Carbon dioxide (CO2). Carbon monoxide (CO).

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Other health effects  There is no evidence that the product can cause cancer.

Inhalation  Vapours may irritate throat/respiratory system. A single exposure may cause the following adverse effects: Coughing. Difficulty in breathing.

Ingestion  May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication.
DGF14A - Duraglide Dry Lubricant, Aerosol

Skin contact
Product has a defatting effect on skin. May cause allergic contact eczema.

Eye contact
May cause temporary eye irritation.

Medical symptoms
Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.

Toxicological information on ingredients.

**HFC-134a Tetrafluoroethane**

Other health effects
There is no evidence that the product can cause cancer.

Acute toxicity - Inhalation

Acute toxicity inhalation (LC₅₀ gases ppmV)
Species Rat

ATE inhalation (gases ppm) 567,000.0

**PROPAN-2-OL**

Carcinogenicity
IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.
NTP carcinogenicity Not listed.
OSHA Carcinogenicity Not listed.

**SECTION 12: Ecological Information**

Ecotoxicity
The product contains a substance or substances that will contribute to global warming (greenhouse effect).

12.1. Toxicity

Acute toxicity - fish LC₅₀, 96 hours: 450 mg/l, Algae

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 980 mg/l, Daphnia magna

Ecological information on ingredients.

**HFC-134a Tetrafluoroethane**

Acute toxicity - fish LC₅₀, 96 hours: 450 mg/l, Algae

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 980 mg/l, Daphnia magna

**PROPAN-2-OL**

Acute toxicity - fish LC₅₀, 96 hours: 9,640 mg/l, Algae

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 5102 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: >2,000 mg/l, Fish
DGF14A - Duraglide Dry Lubricant, Aerosol

12.2. Persistence and degradability
Persistence and degradability  The product is not expected to be biodegradable.

12.3. Bioaccumulative potential
Bioaccumulative potential  No data available on bioaccumulation.
Partition coefficient  No information available.

Ecological information on ingredients.

HFC-134a Tetrafluoroethane

<table>
<thead>
<tr>
<th>Partition coefficient</th>
<th>Pow: 1.06</th>
</tr>
</thead>
</table>

PROPAN-2-OL

| Partition coefficient | : 0.05 |

12.4. Mobility in soil
Mobility  The product contains volatile substances which may spread in the atmosphere.

12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment  This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects
Other adverse effects  The product contains a substance or substances that will contribute to global warming (greenhouse effect).

SECTION 13: Disposal considerations

13.1. Waste treatment methods
General information  Reuse or recycle products wherever possible. Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods  Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Empty containers must not be punctured or incinerated because of the risk of an explosion. Aerosol containers can explode when heated, due to excessive pressure build-up. Reuse or recycle products wherever possible.

SECTION 14: Transport information

14.1. UN number
UN No. (IMDG)  1950
UN No. (ICAO)  1950

14.2. UN proper shipping name
Proper shipping name (ADR/RID)  LIMITED QUANTITY
Proper shipping name (IMDG)  UN1950, Aerosols, Non-Flammable, 2.2, Limited Quantity
Proper shipping name (ICAO)  UN1950, Aerosols, Non-Flammable, 2.2, Limited Quantity
Proper shipping name (ADN)  LIMITED QUANTITY

14.3. Transport hazard class(es)
**DGFA14A - Duraglide Dry Lubricant, Aerosol**

<table>
<thead>
<tr>
<th>IMDG class</th>
<th>2.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICAO class/division</td>
<td>2.2</td>
</tr>
<tr>
<td>ICAO subsidiary risk</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 14.4. Packing group

<table>
<thead>
<tr>
<th>ADR/RID packing group</th>
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</tr>
</thead>
<tbody>
<tr>
<td>IMDG packing group</td>
<td>N/A</td>
</tr>
<tr>
<td>ICAO packing group</td>
<td>N/A</td>
</tr>
</tbody>
</table>

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not relevant. No information required.

## SECTION 15: Regulatory information

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

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Guidance</td>
<td>Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.</td>
</tr>
</tbody>
</table>

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

<table>
<thead>
<tr>
<th>Revision comments</th>
<th>NOTE: Lines within the margin indicate significant changes from the previous revision.</th>
</tr>
</thead>
<tbody>
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<td>Revision date</td>
<td>23/06/2017</td>
</tr>
<tr>
<td>Revision</td>
<td>30</td>
</tr>
<tr>
<td>Supersedes date</td>
<td>11/04/2017</td>
</tr>
<tr>
<td>SDS number</td>
<td>AEROSOL - DGF14A</td>
</tr>
<tr>
<td>SDS status</td>
<td>Approved.</td>
</tr>
<tr>
<td>Hazard statements in full</td>
<td>H225 Highly flammable liquid and vapour. H229 Pressurised container: may burst if heated H280 Contains gas under pressure; may explode if heated. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.</td>
</tr>
</tbody>
</table>
DGF14A - Duraglide Dry Lubricant, Aerosol

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.