

SAFETY DATA SHEET DGF14A - Duraglide Dry Lubricant, Aerosol

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

1. Identification

Product identifier

Product name

DGF14A - Duraglide Dry Lubricant, Aerosol

Product number

MCC-DGF14A,MCC-DGF141

Recommended use of the chemical and restrictions on use

Application

Lubricant.

Details of the supplier of the safety data sheet

Supplier

MicroCare Corporation

Manufacturer

MICROCARE CORPORATION

595 John Downey Drive New Britain, CT 06051 United States of America

CAGE: OATV9

Tel: +1 860-827-0626 Fax: +1 860-827-8105 techsupport@microcare.com

Emergency telephone number

Emergency telephone

CHEMTREC (800) 424-9300

2. Hazard(a) identification

Classification of the substance or mixture

Physical hazards

Press. Gas, Liquefied - H280

Health hazards

Not Classified

Environmental hazards

Not Classified

Human health

Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. Mild dermatitis, allergic skin rash.

Sexted Spread

Physicochemical

Vapors are heavier than air and may travel along the floor and accumulate in the bottom of containers. Not considered to be a significant hazard due to the small quantities used. Gas or

vapor displaces oxygen available for breathing (asphyxiant).

Label elements

Pictogram



Signal word

Warning

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Hazard statements

H280 Contains gas under pressure; may explode if heated.

Precautionary statements

P251 Pressurized container: Do not pierce or burn, even after use

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Supplemental label

information

EUH210 Safety data sheet available on request. RCH001a 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

HFC-134a Tetrafluorcethane 60-100% CAS number: 811-97-2

Classification

Press. Gas, Liquefied - H280

PROPAN-2-0L

CAS number: 67-63-0

Classification

Flam. Liq. 2 - H225

Eye Irrit. 2A - H319

STOT SE 3 - H336

Poly-tfe, omega-hydro-alpha-(methylcyclohexyl)

1-5%

CAS number: 65530-85-0

Classification

Flam. Lig. 2 - H225

Eye Irrit, 2A - H319

STOT SE 3 - H335, H336

The Full Text for all Hazard Statements are Displayed in Section 16.

Composition comments

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of CFR 1900.1200,TSCA: The ingredients of this product are

on the TSCA Inventory.

4. First-eld measures

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.

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.

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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.

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. Vapors in high concentrations are

anesthetic. 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.

Indication of 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 The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

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 vapors. Aerosol

containers can explode when heated, due to excessive pressure build-up.

Advice for firefighters

Protective actions during

firefighting

Move containers from fire area if it can be done without risk.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

6: Accidental relegée measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Warn everybody of potential hazards and evacuate if necessary. Provide adequate ventilation.

Avoid inhalation of vapors. Use approved respirator if air contamination is above an

acceptable level.

Environmental precautions

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

the environment.

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, cothing 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.

Reference to other sections

For personal protection, see Section 8. For waste disposal, see section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions

Provide adequate ventilation. Avoid inhalation of vapors/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 vapors. Keep out of the reach of children.

Conditions for safe storage, including any incompatibilities

Storage precautions

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

Specific end uses(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).

8. Exposure Controls/personal protection.

Control parameters

Occupational exposure limits

HFC-134a Tetrafluoroethane

Long-term exposure limit (8-hour TWA): OES 4240 mg/m³

Short-term exposure limit (15-minute): OES

PROPAN-2-OL

Long-term exposure limit (8-hour TWA): OSHA 400 ppm 980 mg/m³ Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 492 mg/m³ Short-term exposure limit (15-minute): ACGIH 400 ppm 984 mg/m³

Α4

OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

Ingredient comments

WEL = Workplace Exposure Limits

Exposure controls

Protective equipment





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 sultable 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. Vapors 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.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance

Liquid. Aerosol.

Color

White/off-white. Waxy solid.

Odor

Slight alcoholic.

Odor threshold

Not determined.

рΗ

No information available.

Melting point

PTFE Content only 300°C/581°F

Initial boiling point and range

-26.5°C/-15.7°F @ 101.3 kPa

Evaporation rate

No information available.

Evaporation factor

No information available.

Upper/lower flammability or

explosive limits

Not determined.

Other flammability

The product is not flammable.

Vapor pressure

663 kPa @ 25°C

Vapor density

3.18 @ 25 (C) / 77 (F)

Relative density

No information available.

Bulk density

No information available.

Solubility(ies)

Partition coefficient

Slightly soluble in water.

No information available.

Auto-ignition temperature

No information available.

Decomposition Temperature

No information available.

Viscosity

No information available.

Comments

Aerosol.

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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.

Flammability

The product is not flammable.

10. Stability and reactivity

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

Stability

Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous

reactions

Will not polymerize.

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 vapors.

Materials to avoid

Alkali metals, Alkaline earth metals, Powdered metal.

Hazardous decomposition

products

Heating may generate the following products: Toxic and corrosive gases or vapors.

Halogenated hydrocarbons. Hydrogen fluoride (HF). Carbon dioxide (CO2). Carbon monoxide

(CO).

11 Toxicological information

Information on toxicological effects

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

Inhafation Vapors 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.

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

Eye contact May cause temporary eye irritation.

Medical Symptoms Gas or vapor 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

567,000.0

(LC∞ gases ppmV)

Species

Rat

ATE inhalation (gases

567,000.0

ppm)

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Acute toxicity - oral

Acute toxicity oral (LD.

5,800.0

mg/kg)

Species

Rat

ATE oral (mg/kg)

5,800.0

Acute toxicity - dermal

Acute toxicity dermal (LD₈₀ 13,000.0

mg/kg)

Species

Rabbit

ATE dermal (mg/kg)

13,000.0

16,000.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC_∞ vapours mg/l)

Species

Rat

ATE inhalation (vapours

16,000.0

mg/l)

Carcinogenicity

IARC carcinogenicity

IARC Group 3 Not classifiable as to its carcinogenicity to humans.

NTP carcinogenicity

Not listed.

OSHA Carcinogenicity

Not listed.

12. Ecological Information

Ecotoxicity

The product contains a substance or substances that will contribute to global warming

(greenhouse effect).

Toxicity

Acute toxicity - fish

LCso, 96 hours: 450 mg/L mg/l, Fish

Acute toxicity - aquatic

EC_{so}, 48 hours: 980 mg/L mg/l, Daphnla magna

invertebrates

Ecological information on ingredients.

HFC-134a Tetrafluoroethane

Acute toxicity - fish

LCso, 96 hours: 450 mg/l, Fish

Acute toxicity - aquatic

EC∞, 48 hours: 980 mg/l, Daphnia magna

invertebrates

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Acute toxicity - fish

LCso, 96 hours: 9,640 mg/l, Flsh

Acute toxicity - aquatic

tic

ECso, 48 hours: 5102 mg/i, Daphnia magna

invertebrates

Acute toxicity - aquatic

IC50, 72 hours: >2,000 mg/l, Algae

plants

Persistence and degradability

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

Bioaccumulative potential

Bio-Accumulative Potential

No data available on bioaccumulation.

Partition coefficient

No Information available.

Ecological information on ingredients.

HFC-134a Tetrafluoroethane

Partition coefficient

Pow: 1.06

Mobility in soil

Mobility

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

Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

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

Other adverse effects

Other adverse effects

The product contains a substance or substances that will contribute to global warming

(greenhouse effect).

43: Disposal considerations

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.

14. Transport Information

UN Number

UN No. (DOT)

UN1950

UN No. (TDG)

UN1950

UN No. (IMDG)

UN1950

UN No. (ICAO)

UN1950

UN proper shipping name

Proper shipping name (DOT)

UN1950, Aerosols, Non-Flammable, 2.2, Limited Quantity

Proper shipping name (TDG) UN1950, Aerosols, Non-Flammable, 2.2, Limited Quantity

Proper shipping name

UN1950, Aerosols, Non-Flammable, 2.2, Limited Quantity

(IMDG)

Proper shipping name (ICAO) UN1950, Aerosols, Non-Flammable, 2.2, Limited Quantity

Transport hazard class(es)

DOT hazard class 2.2

TDG class 2.2

TDG label 2

IMDG Class 2.2

ICAO class/division 2.2

ICAO subsidiary risk N/A

Packing group

DOT pack group N/A

TDG Packing Group N/A

IMDG packing group N/A

ICAO packing group N/A

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

Not applicable.

Transport in bulk according to Not relevant. No information required.

Annex II of MARPOL 73/78

and the IBC Code

16 Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities Not listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

SARA 313 Emission Reporting

Not listed.

Not listed.

CAA Accidental Release Prevention

Not listed.

SARA (311/312) Hazard Categories

Ácute Chronic Pressure

OSHA Highly Hazardous Chemicals

Not listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

Not listed.

California Air Toxics "Hot Spots" (A-I)

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Present.

California Air Toxics "Hot Spots" (A-II)

Not listed.

California Directors List of Hazardous Substances

PROPAN-2-OL

Present.

Massachusetts "Right To Know" List

PROPAN-2-OL

Present.

Rhode Island "Right To Know" List

PROPAN-2-OL

Present.

Minnesota "Right To Know" List

HFC-134a Tetrafluoroethane

Present.

PROPAN-2-OL

Present.

New Jersey "Right To Know" List

PROPAN-2-OL

Present.

Pennsylvania "Right To Know" List

PROPAN-2-OL

Present.

Inventories

Canada - DSL/NDSL

Some of the ingredients are listed or exempt.

DSL

US - TSCA

All the ingredients are listed.

16: Other information

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date

1/21/2016

Revision

16

Supersedes date

1/14/2016

SDS No.

AEROSOL - DGF14A

SDS status

Approved.

Hazard statements in full

H225 Highly flammable liquid and vapor.

H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye Irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

NFPA - health hazard

Irritation, minor residual injury. (1)

NFPA - flammability hazard

Will not burn. (0)

NFPA - instability hazard

Unstable if heated. (1)

NFPA - special hazard

N/A

ACA HMIS Health rating.

Slight Hazard. (1)

ACA HMIS Flammability

rating.

Will not burn. (0)

ACA HMIS Physical hazard

rating.

Unstable if heated. (1)

ACA HMIS Personal protection rating.

В

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