Honeywell

Honeywell Solstice® N40 Refrigerant (R-448A)

000000017419

Version 2.3 Revision Date 10/09/2023 Print Date 12/20/2023

SECTION 1. IDENTIFICATION

Product name : Honeywell Solstice® N40 Refrigerant (R-448A)

Number : 000000017419

Product Use Description : Refrigerant

Manufacturer or supplier's

details

Honeywell International Inc.

115 Tabor Road

Morris Plains, NJ 07950-2546

For more information call : 800-522-8001

+1-973-455-6300(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : Medical: 1-800-498-5701 or +1-303-389-1414

Transportation (CHEMTREC): 1-800-424-9300 or +1-703-

527-3887

:

(24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form : Liquefied gas

Color : clear colourless

Odor : slight ether-like

Classification of the substance or mixture

Classification of the : Gases under pressure, Liquefied gas

substance or mixture Simple Asphyxiant

GHS Label elements, including precautionary statements

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Symbol(s)

Signal word : Warning

Hazard statements : Contains gas under pressure; may explode if heated.

May displace oxygen and cause rapid suffocation.

Precautionary statements : **Prevention:**

Use personal protective equipment as required.

Storage:

Protect from sunlight. Store in a well-ventilated place.

Hazards not otherwise

classified

: May cause frostbite.

May cause cardiac arrhythmia. May cause eye and skin irritation.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Difluoromethane	75-10-5	26.00 %
Pentafluoroethane	354-33-6	26.00 %
1,1,1,2-Tetrafluoroethane	811-97-2	21.00 %

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2,3,3,3-Tetrafluoroprop-1-ene	754-12-1	20.00 %
trans-1,3,3,3-Tetrafluoroprop-1-er	ne 29118-24-9	7.00 %

SECTION 4. FIRST AID MEASURES

General advice : First aider needs to protect himself. Move out of dangerous

area. Take off all contaminated clothing immediately.

Inhalation : Move to fresh air. If breathing is irregular or stopped,

administer artificial respiration. Use oxygen as required, provided a qualified operator is present. Call a physician. Do

not give drugs from adrenaline-ephedrine group.

Skin contact : After contact with skin, wash immediately with plenty of water.

If there is evidence of frostbite, bathe (do not rub) with

lukewarm (not hot) water. If water is not available, cover with a clean, soft cloth or similar covering. If symptoms persist, call a

physician.

Eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. In case of frostbite water should be lukewarm, not hot. If symptoms persist, call a physician.

Ingestion : Unlikely route of exposure. As this product is a gas, refer to the

inhalation section. Do not induce vomiting without medical

advice. Call a physician immediately.

Notes to physician

Indication of immediate medical attention and special treatment needed, if

necessary

Because of the possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should be used with special caution and only in situations of emergency life support. Treatment of overexposure should be directed at the control of symptoms and the clinical conditions. Treat frost-

bitten areas as needed.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : The product is not flammable.

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Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Specific hazards during

firefighting

: Contents under pressure.

This product is not flammable at ambient temperatures and

atmospheric pressure.

However, this material can ignite when mixed with air under

pressure and exposed to strong ignition sources.

Container may rupture on heating.

Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water

courses.

Vapours are heavier than air and can cause suffocation by

reducing oxygen available for breathing.

Fire may cause evolution of: Halogenated compounds

Hydrogen fluoride Carbon oxides Carbonyl halides

Special protective equipment

for firefighters

: In the event of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus and protective suit.

No unprotected exposed skin areas.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Immediately evacuate personnel to safe areas.

Keep people away from and upwind of spill/leak.

Wear personal protective equipment. Unprotected persons

must be kept away.

Remove all sources of ignition.

Avoid skin contact with leaking liquid (danger of frostbite).

Ventilate the area.

After release, disperses into the air.

Vapours are heavier than air and can cause suffocation by

reducing oxygen available for breathing. Avoid accumulation of vapours in low areas.

Unprotected personnel should not return until air has been

tested and determined safe.

Ensure that the oxygen content is >= 19.5%.

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Environmental precautions : Prevent further leakage or spillage if safe to do so.

The product evaporates readily.

Methods and materials for containment and cleaning

up

Ventilate the area.

SECTION 7. HANDLING AND STORAGE

Handling

Precautions for safe

handling

Handle with care.

Avoid inhalation of vapour or mist.

Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Use only in well-ventilated areas.

Pressurized container. Protect from sunlight and do not expose

to temperatures exceeding 50 °C.

Follow all standard safety precautions for handling and use of

compressed gas cylinders. Use authorized cylinders only.

Protect cylinders from physical damage.

Do not puncture or drop cylinders, expose them to open flame

or excessive heat.

Do not pierce or burn, even after use. Do not spray on a naked

flame or any incandescent material.

Do not remove screw cap until immediately ready for use.

Always replace cap after use.

Advice on protection against fire and explosion

The product is not flammable.

Can form a combustible mixture with air at pressures above

atmospheric pressure.

Storage

Conditions for safe storage,

including any incompatibilities

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even

after use.

Keep containers tightly closed in a dry, cool and well-ventilated

place.

Storage rooms must be properly ventilated.

Ensure adequate ventilation, especially in confined areas.

Protect cylinders from physical damage.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Do not breathe vapour.

Avoid contact with skin, eyes and clothing.

Ensure that eyewash stations and safety showers are close to

the workstation location.

Engineering measures : General room ventilation is adequate for storage and handling.

Perform filling operations only at stations with exhaust

ventilation facilities.

Eye protection : Wear as appropriate:

Safety glasses with side-shields If splashes are likely to occur, wear:

Goggles or face shield, giving complete protection to eyes

Hand protection : Leather gloves

In case of contact through splashing:

Protective gloves Neoprene gloves

Polyvinyl alcohol or nitrile- butyl-rubber gloves

Skin and body protection : Avoid skin contact with leaking liquid (danger of frostbite).

Wear cold insulating gloves/ face shield/ eye protection.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory

equipment.

Wear a positive-pressure supplied-air respirator.

Vapours are heavier than air and can cause suffocation by

reducing oxygen available for breathing.

For rescue and maintenance work in storage tanks use self-

contained breathing apparatus.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

Ensure adequate ventilation, especially in confined areas.

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothing before re-use.

Keep working clothes separately.

Exposure Guidelines

Componer	s CAS-No.	Value	Control	Upda	Basis
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			1	•	
			parameters	te	
Difluoromethane	75-10-5	TWA : Time weighted average	2,200 mg/m3 (1,000 ppm)	2007	WEEL:US. OARS. WEELs Workplace Environmental Exposure Level Guide, as amended
Difluoromethane	75-10-5	TWA:	(4 000 ====)	14004	I lana muallil imit
Diffuoromethane	75-10-5	Time weighted average	(1,000 ppm)	1994	Honeywell:Limit established by Honeywell International Inc.
		1	T.,	T	I
Pentafluoroethan e	354-33-6	TWA: Time weighted average	(1,000 ppm)		Honeywell:Limit established by Honeywell International Inc.
5 . 6		T=14/4	1.000	10000	
Pentafluoroethan e	354-33-6	TWA: Time weighted average	4,900 mg/m3 (1,000 ppm)	2020	WEEL:US. OARS. WEELs Workplace Environmental Exposure Level Guide, as amended
1,1,1,2- Tetrafluoroethane	811-97-2	TWA: Time weighted average	(1,000 ppm)		Honeywell:Limit established by Honeywell International Inc.
-					
1,1,1,2- Tetrafluoroethane	811-97-2	TWA: Time weighted average	4,240 mg/m3 (1,000 ppm)	2007	WEEL:US. OARS. WEELs Workplace Environmental Exposure Level Guide, as amended

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2,3,3,3- Tetrafluoroprop- 1-ene	754-12-1	TWA : Time weighted average	(500 ppm)	2009	WEEL:US. OARS. WEELs Workplace Environmental Exposure Level Guide, as amended	
·		_	1			
2,3,3,3- Tetrafluoroprop- 1-ene	754-12-1	TWA : Time weighted average	(500 ppm)	03 15 2010	Honeywell:Limit established by Honeywell International Inc.	
0 0 0 0	754.40.4	STEL:	(4.500)	00.45	I I an annually limit	
2,3,3,3- Tetrafluoroprop- 1-ene	754-12-1	STEL: Short term exposure limit	(1,500 ppm)	03 15 2010	Honeywell:Limit established by Honeywell International Inc.	
trans-1,3,3,3- Tetrafluoroprop- 1-ene	29118-24-9	TWA: Time weighted average	(800 ppm)	2020	WEEL:US. OARS. WEELs Workplace Environmental Exposure Level Guide, as amended	
trans-1,3,3,3- Tetrafluoroprop- 1-ene	29118-24-9	TWA : Time weighted average	(800 ppm)	31.03. 11	Honeywell:Limit established by Honeywell International Inc.	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquefied gas

Color : clear colourless

Odor : slight ether-like

pH : Note: neutral

Melting point/range : Note: No data available

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Boiling point/boiling range : -45.9 - -39.8 °C

Flash point : Note: Not applicable

Lower explosion limit : Note: None

Upper explosion limit : Note: None

Vapor pressure : 1,120 kPa

at 21.1 °C(70.0 °F)

2,588 kPa

at 54.4 °C(129.9 °F)

Vapor density : 2.98 Note: (Air = 1.0)

Density : 1.11 g/cm3

Water solubility : Note: No data available

Partition coefficient: n-

octanol/water

: Note: No data available

Auto-ignition temperature : 628 °C

Decomposition temperature : > 250 °C

Note: To avoid thermal decomposition, do not overheat.

Global warming potential : 1,387

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

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: Stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

: Hazardous polymerisation does not occur.

Conditions to avoid : Pressurized container. Protect from sunlight and do not

> expose to temperatures exceeding 50 °C. Decomposes under high temperature.

Some risk may be expected of corrosive and toxic

decomposition products.

Can form a combustible mixture with air at pressures above

atmospheric pressure.

Do not mix with oxygen or air above atmospheric pressure.

Incompatible materials : Potassium

Calcium

Powdered metals

Finely divided aluminium Finely divided magnesium

Zinc

Hazardous decomposition

products

: Halogenated compounds

Hydrogen fluoride Carbonyl halides Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity

Difluoromethane : LC50: > 520000 ppm

> Exposure time: 4 h Species: Rat

Pentafluoroethane > 769000 ppm

> Exposure time: 4 h Species: Rat

: LC50: > 500000 ppm 1,1,1,2-Tetrafluoroethane

Exposure time: 4 h

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Species: Rat

2,3,3,3-Tetrafluoroprop-1-

ene

: LC50: > 400000 ppm Exposure time: 4 h

Species: Rat

Method: OECD Test Guideline 403

trans-1,3,3,3-

Tetrafluoroprop-1-ene

100000 ppm Species: Mouse

Note: Acute (4-Hour) Inhalation Toxicity Screening Study

(mouse): No lethality at >100,000 ppm.

LC50: > 207000 ppm Exposure time: 4 h Species: Rat

Skin irritation

2,3,3,3-Tetrafluoroprop-1-

ene

: Note: Not applicable

study technically not feasible

trans-1,3,3,3-

Tetrafluoroprop-1-ene

: Species: Rabbit

Result: No skin irritation

Method: OECD Test Guideline 404

Eye irritation

2,3,3,3-Tetrafluoroprop-1-

ene

: Note: Not applicable

study technically not feasible

Sensitisation

Difluoromethane

: Cardiac sensitization

Species: dogs

Note: No-observed-effect level

>350 000 ppm

Pentafluoroethane

: Cardiac sensitization

Species: dogs

Note: No-observed-effect level

75 000 ppm

Lowest observed effect level

100 000 ppm

1,1,1,2-Tetrafluoroethane

: Cardiac sensitization

Species: dogs

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Note: No-observed-effect level

50 000 ppm

Lowest observed effect level

75 000 ppm

2,3,3,3-Tetrafluoroprop-1-

ene

: Dermal

Note: Not applicable, as this product is a gas.

study technically not feasible

trans-1,3,3,3-

Tetrafluoroprop-1-ene

: Cardiac sensitization Species: dogs

Note: Did not cause sensitisation on laboratory animals.

Repeated dose toxicity

Difluoromethane

: Species: Rat

Application Route: Inhalation Exposure time: (90 d) NOEL: 50000 ppm

Subchronic toxicity

Pentafluoroethane : Species: Rat

Application Route: Inhalation Exposure time: (4 Weeks)

NOEL: 50000 ppm Subchronic toxicity

1,1,1,2-Tetrafluoroethane : Species: Rat

NOEL: 40000 ppm

2,3,3,3-Tetrafluoroprop-1-

ene

: Species: Rat

Application Route: Inhalation Exposure time: (2 Weeks)

No-observed-effect level: 50000 ppm Method: OECD Test Guideline 412

Species: Rat

Application Route: Inhalation Exposure time: (4 Weeks)

NOAEL (No observed adverse effect level): 50000 ppm

Method: OECD Test Guideline 412

Species: Rat

Application Route: Inhalation Exposure time: (13 Weeks)

NOAEL (No observed adverse effect level): 50000 ppm

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Method: OECD Test Guideline 413

Species: Rabbit, male Application Route: Inhalation Exposure time: (28 d)

No-observed-effect level: 500 ppm Method: OECD Test Guideline 412

There are no observed toxicological effects, which result in

classification as a specific target organ toxicant.

Species: Rabbit, female Application Route: Inhalation Exposure time: (28 d)

No-observed-effect level: 1000 ppm Method: OECD Test Guideline 412

There are no observed toxicological effects, which result in

classification as a specific target organ toxicant.

Species: Mini-pig

Application Route: Inhalation Exposure time: (28 d)

NOAEL (No observed adverse effect level): 10000 ppm

highest exposure tested

trans-1,3,3,3- : Species: Rat

Tetrafluoroprop-1-ene Application Route: Inhalation Exposure time: (13 Weeks)

NOEL: 5000 ppm

Causes mild effects on the heart.

Genotoxicity in vitro

Difluoromethane : Test Method: Ames test

Result: negative

Pentafluoroethane : Test Method: Ames test

Result: negative

1,1,1,2-Tetrafluoroethane : Note: In vitro tests did not show mutagenic effects

2,3,3,3-Tetrafluoroprop-1-

ene

Test Method: Ames test

Result: 20% and higher, positive in TA 100 and e. coli WP2

uvrA, negative in TA98, TA100, and TA1535.

Method: OECD Test Guideline 471

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trans-1,3,3,3-

Tetrafluoroprop-1-ene

Test Method: Chromosome aberration test in vitro

Cell type: Human lymphocytes

Result: negative

Cell type: Human lymphocytes

Result: negative

Method: Mutagenicity (in vitro mammalian cytogenetic test)

Test Method: Chromosome aberration test in vitro

Result: negative

: Cell type: Human lymphocytes

Result: negative

: Cell type: Chinese Hamster Ovary Cells

Result: negative

: Test Method: Chromosome aberration test in vitro

Cell type: Human lymphocytes

Result: negative

Method: OECD Test Guideline 473

Note: Dose 760,000 ppm

: Test Method: Ames test

Result: negative

Genotoxicity in vivo

Difluoromethane

Species: Mouse

Cell type: Bone marrow

Method: Mutagenicity (micronucleus test)

Result: negative

2,3,3,3-Tetrafluoroprop-1-

ene

Species: Mouse

Cell type: Micronucleus

Dose: up to 200,000 ppm (4 hour) Method: OECD Test Guideline 474

Result: negative

Test Method: Unscheduled DNA synthesis

Dose: up to 50,000 ppm (4 weeks) Method: OECD Test Guideline 486

Result: negative

Species: Rat

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Cell type: Micronucleus

Dose: up to 50,000 ppm (4 weeks) Method: OECD Test Guideline 474

Result: negative

trans-1,3,3,3-

Tetrafluoroprop-1-ene

Test Method: Mutagenicity (in vivo mammalian bone-marrow

cytogenetic test, chromosomal analysis)

Species: Mouse Cell type: Micronucleus

Application Route: Inhalation

Result: negative

Carcinogenicity

2,3,3,3-Tetrafluoroprop-1-

ene

: Species: Rat

Note: Not classified as a human carcinogen. Substance not

expected to be a carcinogen based on available data.

Teratogenicity

Difluoromethane

: Species: Rat

Dose: NOEL - 50,000 ppm

Note: Did not show teratogenic effects in animal experiments.

Species: Rabbit

Dose: NOEL - 50,000 ppm

Note: Did not show teratogenic effects in animal experiments.

Pentafluoroethane : Species: Rabbit

Application Route: Inhalation exposure

NOAEL, Teratog: 50,000 ppm NOAEL, Maternal: 50,000 ppm

Note: Did not show teratogenic effects in animal experiments.

Species: Rat

Application Route: Inhalation exposure NOAEL, Teratog: 50,000 ppm NOAEL, Maternal: 50,000 ppm

Note: Did not show teratogenic effects in animal experiments.

trans-1,3,3,3- : Species: Rabbit

Tetrafluoroprop-1-ene Method: Prenatal Developmental Inhalation Toxicity Study

Note: Did not show teratogenic effects in animal experiments.

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Species: Rat

Method: Prenatal Developmental Inhalation Toxicity Study Note: Did not show teratogenic effects in animal experiments.

Further information

1,1,1,2-Tetrafluoroethane : Note:

Vapours are heavier than air and can cause suffocation by

reducing oxygen available for breathing.

Rapid evaporation of the liquid may cause frostbite. Avoid skin contact with leaking liquid (danger of frostbite).

SECTION 12. ECOLOGICAL INFORMATION

Toxicity to fish

2,3,3,3-Tetrafluoroprop-1-

ene

: LC50: > 197 mg/l Exposure time: 96 h

Species: Cyprinus carpio (Carp)
Method: OECD Test Guideline 203

Note: No demonstrable toxic effect in saturated solution.

trans-1,3,3,3- : NOEC: > 117 mg/l Tetrafluoroprop-1-ene Exposure time: 96 h

Species: Cyprinus carpio (Carp)

Toxicity to daphnia and other aquatic invertebrates 2,3,3,3-Tetrafluoroprop-1- : EC50: > 83 mg/l ene Exposure time: 48 h

Species: Daphnia magna (Water flea)

Method: OECD Test Guideline 202

trans-1,3,3,3- : EC50: > 160 mg/lTetrafluoroprop-1-ene : Exposure time: 48 h

Species: Daphnia magna (Water flea)

Toxicity to algae

2,3,3,3-Tetrafluoroprop-1-

: EC50: > 100 mg/l

ene

Species: Scenedesmus capricornutum (fresh water algae)

Method: OECD Test Guideline 201

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trans-1,3,3,3- : Growth inhibition Tetrafluoroprop-1-ene NOEC: > 170 mg/l

Exposure time: 72 h Species: Algae

Bioaccumulation

2,3,3,3-Tetrafluoroprop-1-

ene

: Note: Due to the distribution coefficient n-octanol/water,

accumulation in organisms is not expected.

Biodegradability

Difluoromethane : Note: Minimal

Pentafluoroethane : Result: Not readily biodegradable.

Value: 5 %

Method: OECD 301 D

2,3,3,3-Tetrafluoroprop-1-

ene

Result: Not readily biodegradable.
 Method: OECD Test Guideline 301F

trans-1,3,3,3- : aerobic

Tetrafluoroprop-1-ene Result: Not readily biodegradable.

Further information on ecology

Additional ecological

information

: This product is subject to U.S. Environmental Protection Agency Clean Air Act Regulations at 40 CFR Part 82.

This product contains greenhouse gases which may

contribute to global warming. Do NOT vent to the atmosphere. To comply with provisions of the U.S. Clean Air Act, any

residual must be recovered.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental

regulations.

SECTION 14. TRANSPORT INFORMATION

DOT UN/ID No. : UN 3163

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Proper shipping name : LIQUEFIED GAS, N.O.S.

(Pentafluoroethane, Difluoromethane, 1,1,1,2-

Tetrafluoroethane)

Class 2.2

Packing group

Hazard Labels 2.2

IATA UN/ID No. : UN 3163

Description of the goods : LIQUEFIED GAS, N.O.S.

(Pentafluoroethane, Difluoromethane, 1,1,1,2-

Tetrafluoroethane)

Class : 2.2 Hazard Labels : 2.2 Packing instruction (cargo : 200

aircraft)

Packing instruction : 200

(passenger aircraft)

IMDG UN/ID No. : UN 3163

Description of the goods : LIQUEFIED GAS, N.O.S.

(PENTAFLUOROETHANE, DIFLUOROMETHANE, 1,1,1,2-TETRAFLUOROETHANE)

Class : 2.2
Hazard Labels : 2.2
EmS Number : F-C, S-V
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

Inventories

US. Toxic Substances

: On TSCA Inventory

Control Act

Australia. Inventory of Industrial Chemicals (AIIC),

: On the inventory, or in compliance with the inventory

as amended

Canada. Canadian Environmental Protection Act (CEPA). Domestic : All components of this product are on the Canadian DSL

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Substances List (DSL)

Japan. Kashin-Hou Law

List

: On the inventory, or in compliance with the inventory

Korea. Existing Chemicals

Inventory (KECI)

: On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) : Not in compliance with the inventory

China. Inventory of Existing

Chemical Substances

: On the inventory, or in compliance with the inventory

(IECSC)

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New

Zealand

: On the inventory, or in compliance with the inventory

Taiwan Chemical

Substance Inventory (TCSI)

: Not in compliance with the inventory

TSCA 12B : US. Toxic Substances Control Act (TSCA) Section 12(b) Export

Notification (40 CFR 707, Subpt D)

2,3,3,3-Tetrafluoroprop-1-ene 754-12-1

National regulatory information

US. Toxic Substances

Control Act (TSCA) Section 5(a)(2) Final Significant

New Use Rules (SNURs) (40 CFR 721, Subpt E) : Issued.

: 2,3,3,3-Tetrafluoroprop-1-ene 754-12-1

SARA 302 Components : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 Components : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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SARA 311/312 Hazards : Sudden Release of Pressure Hazard

Acute Health Hazard

California Prop. 65

WARNING:This product can expose you to chemicals, listed below, known to the State of California to cause cancer and birth defects or other reproductive harm. For more

information go to www.P65Warnings.ca.gov.
Dichloromethane 75-09-2
Chloromethane 74-87-3

Massachusetts RTK : Dichloromethane 75-09-2

Pennsylvania RTK : Difluoromethane 75-10-5

Global warming potential : 1,387

SECTION 16. OTHER INFORMATION

HMIS III NFPA
Health hazard : 1 2
Flammability : 1 1 1
Physical Hazard : 0
Instability : 0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

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