Solstice® 454C

EVENUAL LIDENTIFICATION Forduct name forduct name forduct name forduct 00000026327 Number groduct Use Description forduct Use Descriptio
Product name:Solstice® 454CNumber:00000026327Product Use Description:RefrigerantManufacturer or supplier's details:Honeywell International Inc. 115 Tabor Road Morris Plains, NJ 07950-2546For more information call:Medical: 1-800-498-5701 or +1-303-389-1414 : Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887 : : :ETUON 2. HAZARDS IDENTIFICEmergency Overview:Form:! Liquefied gas colorColor:: colourless
Number::00000026327Product Use Description::RefrigerantManufacturer or supplier's details::Honeywell International Inc. 115 Tabor Road Morris Plains, NJ 07950-2546For 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 : : :Emergency Overview::(24 hours/day, 7 days/week)Form::Liquefied gas colorColor::colourless
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 Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887 (24 hours/day, 7 days/week) ECTION 2. HAZARDS IDENTIFICATION Emergency Overview Form : Liquefied gas Color : colourless
ECTION 2. HAZARDS IDENTIFICATION Emergency Overview Form : Liquefied gas Color : colourless
Emergency OverviewForm: Liquefied gasColor: colourless
Odor : slight ether-like
Classification of the substance or mixture
Classification of the substance : Flammable gases, Category 1B or mixture Gases under pressure, Liquefied gas Simple Asphyxiant
GHS Label elements, including precautionary statements

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Symbol(s)		
Signal word	: Danger	•
Hazard statements	: H221 H280	Flammable gas. Contains gas under pressure; may explode if heated.
	None	May displace oxygen and cause rapid suffocation.
Precautionary statements	: Prevention: P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
	Response: P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
	P381	Eliminate all ignition sources if safe to do so.
	Storage: P410 + P403	Protect from sunlight. Store in a well-ventilated place.

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		
Chemi	cal name	CAS-No.	Concentration
2,3,3,3-Tetrafluoroprop-1	-ene	754-12-1	78.50 %
Difluoromethane		75-10-5	21.50 %
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General advice	:	First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.
Inhalation	:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician.
Skin contact	:	Rapid evaporation of the liquid may cause frostbite. 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. Wash contaminated clothing before re-use. Consult 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. 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. If conscious, drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician immediately.
Notes to physician		
Indication of immediate medical attention and special treatment needed, if necessary	:	Treat frost-bitten areas as needed. Treat symptomatically.
TION 5. FIREFIGHTING ME	ASL	JRES
Suitable extinguishing media		 In case of fire, allow gas to burn if flow cannot be shut off immediately. Apply water from a safe distance to cool container and protect surrounding area. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards during		Flammable gas.
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firefighting	Contents under pressure. Vapours are heavier than air and or reducing oxygen available for breat Vapors may travel to areas away fi igniting/flashing back to vapor sou Fire or intense heat may cause vice Cool closed containers exposed to Do not allow run-off from fire fighti courses. In case of fire hazardous decompo- produced such as: Hydrogen fluoride Carbonyl halides Carbon monoxide Carbon dioxide (CO2)	athing. from work site before irce. blent rupture of packages. o fire with water spray. ing to enter drains or water
Special protective equipment for firefighters	: In the event of fire and/or explosio Wear self-contained breathing app No unprotected exposed skin area	paratus and protective suit.
Further information	: Evacuate personnel to safe areas. Leaking gas fire: Do not extinguish safely. Eliminate all ignition sources if saf	n, unless leak can be stopped
Further information	Leaking gas fire: Do not extinguish safely. Eliminate all ignition sources if saf	n, unless leak can be stopped
	Leaking gas fire: Do not extinguish safely. Eliminate all ignition sources if saf	a, unless leak can be stopped fe to do so. b safe areas. d of spill/leak. nt. Unprotected persons aratus and protective suit. e to do so. id (danger of frostbite). from work site before ce. an cause suffocation by thing. bw areas.

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ion 1.4		Revision Date 11/15/2024	Print Date 03/07/2
		Ensure that the oxygen content is >= 1	9.5%.
Environmental precautions	:	Prevent further leakage or spillage if sa The product evaporates readily. Discharge into the environment must be	
Methods and materials for containment and cleaning up	:	Use explosion-proof equipment. No sparking tools should be used. Ventilate the area. Allow to evaporate.	
TION 7. HANDLING AND ST Handling	OR	AGE	
Precautions for safe handling	:	Handle with care. Wear personal protective equipment. Do not breathe vapor. Avoid contact with skin, eyes and clothi Use only in well-ventilated areas. Pressurized container. Protect from sur to temperatures exceeding 50 °C. Follow all standard safety precautions f compressed gas cylinders. Use authorized cylinders only. Protect cylinders from physical damage Do not puncture or drop cylinders, or ex or excessive heat. Do not remove screw cap until immedia Always replace cap after use.	nlight and do not expose for handling and use of e. spose them to open flame
Advice on protection against fire and explosion	:	Container hazardous when empty. Vapours may form flammable mixture w Keep product and empty container awa of ignition. Do not pressurize, cut, weld, braze, solic containers to heat or sources of ignition Take measures to prevent the build up Electrical equipment should be protected standard. Use explosion-proof equipment. No sparking tools should be used. No smoking.	ay from heat and sources der, drill, grind or expose n. of electrostatic charge.
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AFETY DATA SH	IEET		Honeywell
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rsion 1.4		Revision Date 11/15/2024	Print Date 03/07/2
Storage			
Conditions for safe sto including any incompatibilities		Pressurized container: protect from to temperatures exceeding 50 °C. I after use. Keep containers tightly closed in a place. Keep away from heat and sources Storage rooms must be properly ve Ensure adequate ventilation, espec Protect cylinders from physical dam Store away from incompatible subs Store in original container.	Do not pierce or burn, even dry, cool and well-ventilated of ignition. entilated. sially in confined areas. nage.
CTION 8. EXPOSURE C	:	S/PERSONAL PROTECTION Ensure that eyewash stations and s the workstation location. Do not breathe vapor.	
Protective measures	:	Ensure that eyewash stations and s the workstation location. Do not breathe vapor. Avoid contact with skin, eyes and c	
	3	Ensure that eyewash stations and s the workstation location. Do not breathe vapor.	
Protective measures Engineering measures	: 5 : :	Ensure that eyewash stations and s the workstation location. Do not breathe vapor. Avoid contact with skin, eyes and c Use with local exhaust ventilation.	lothing.
Protective measures Engineering measures Eye protection	: : :	Ensure that eyewash stations and s the workstation location. Do not breathe vapor. Avoid contact with skin, eyes and c Use with local exhaust ventilation. Safety goggles Protective gloves Gloves must be inspected prior to u	lothing. use. id (danger of frostbite).
Protective measures Engineering measures Eye protection Hand protection	: : : : : :	Ensure that eyewash stations and s the workstation location. Do not breathe vapor. Avoid contact with skin, eyes and c Use with local exhaust ventilation. Safety goggles Protective gloves Gloves must be inspected prior to u Replace when worn. Avoid skin contact with leaking liqui	lothing. use. id (danger of frostbite). t. equipment normally required. ations above the exposure ified respirators.
Protective measures Engineering measures Eye protection Hand protection Skin and body protection Respiratory protection Exposure Guidelines	: ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	Ensure that eyewash stations and s the workstation location. Do not breathe vapor. Avoid contact with skin, eyes and c Use with local exhaust ventilation. Safety goggles Protective gloves Gloves must be inspected prior to u Replace when worn. Avoid skin contact with leaking liqui Wear suitable protective equipment No personal respiratory protective e When workers are facing concentra limit they must use appropriate cert Use NIOSH approved respiratory p	lothing. use. id (danger of frostbite). t. equipment normally required. ations above the exposure ified respirators. rotection.
Protective measures Engineering measures Eye protection Hand protection Skin and body protection Respiratory protection Exposure Guidelines	: 3 : 3 : 3	Ensure that eyewash stations and s the workstation location. Do not breathe vapor. Avoid contact with skin, eyes and c Use with local exhaust ventilation. Safety goggles Protective gloves Gloves must be inspected prior to u Replace when worn. Avoid skin contact with leaking liqui Wear suitable protective equipment No personal respiratory protective e When workers are facing concentra limit they must use appropriate cert Use NIOSH approved respiratory p	lothing. use. id (danger of frostbite). t. equipment normally required. ations above the exposure ified respirators. rotection.

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2,3,3,3-Tetrafluor oprop-1-ene	754-12-1	TWA : Time weighted average	(500 ppm)	03 15 2010	Honeywell:Limit established by Honeywell International Inc.
2,3,3,3-Tetrafluor oprop-1-ene	754-12-1	TWA : Time weighted average	(500 ppm)	2020	WEEL:US Workplace Environmental Exposure Level
2,3,3,3-Tetrafluor oprop-1-ene	754-12-1	STEL : Short term exposure limit	(1,500 ppm)	03 15 2010	Honeywell:Limit established by Honeywell International Inc.
Difluoromethane	75-10-5	TWA : Time weighted average	2,200 mg/m3 (1,000 ppm)	2007	WEEL:US Workplace Environmental Exposure Level
Difluoromethane	75-10-5	TWA : Time weighted average	(1,000 ppm)	1994	Honeywell:Limit established by Honeywell International Inc.
CTION 9. PHYSICAL Physical state Color	: Lio : co	quefied gas lourless			
Odor Odor threshold		ght ether-like ote: No data a			
	: No	ote: neutral			
рН					

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/ersion 1.4 Revision Date 11/15/2024 Print Date 11/15/2024 Melting point/freezing point : Note: No data available Boiling point/boiling range : Note: No data available Flash point : Note: Not applicable Evaporation rate : Note: No data available Lower flammability limit : 7.7 %(V) Upper flammability limit : 15.7 %(V) Vapor pressure : 871.9 kPa at 21 °C(70 °F) Vapor density : Note: No data available Density : Note: No data available Water solubility : Note: No data available Partition coefficient: : Note: No data available Ignition temperature : 444 °C Viscosity, dynamic : Note: No data available Viscosity, kinematic : Note: No data available Oxidizing properties : The substance or mixture is not classified as oxidizin	
Boiling point/boiling range: Note: No data availableFlash point: Note: Not applicableEvaporation rate: Note: No data availableLower flammability limit: 7.7 %(V)Upper flammability limit: 15.7 %(V)Vapor pressure: 871.9 kPa at 21 °C(70 °F)Vapor density: Note: No data availableDensity: Note: No data availablePartition coefficient: n-octanol/water: Note: No data availableIgnition temperature: 444 °CViscosity, kinematic: Note: No data available	ate 03/07/2025
Flash point: Note: Not applicableEvaporation rate: Note: No data availableLower flammability limit: 7.7 %(V)Upper flammability limit: 15.7 %(V)Vapor pressure: 871.9 kPa at 21 °C(70 °F)Vapor density: Note: No data availableDensity: Note: No data availableWater solubility: Note: No data availablePartition coefficient: n-octanol/water: Note: No data availableIgnition temperature: 444 °CViscosity, dynamic: Note: No data availableViscosity, kinematic: Note: No data available	
Evaporation rate: Note: No data availableLower flammability limit: 7.7 %(V)Upper flammability limit: 15.7 %(V)Vapor pressure: 871.9 kPa at 21 °C(70 °F)Vapor density: Note: No data availableDensity: Note: No data availableWater solubility: Note: No data availablePartition coefficient: n-octanol/water: Note: No data availableIgnition temperature: 444 °CViscosity, dynamic: Note: No data availableViscosity, kinematic: Note: No data available	
Lower flammability limit:7.7 %(V)Upper flammability limit:15.7 %(V)Vapor pressure:871.9 kPa at 21 °C(70 °F)Vapor density:Note: No data availableDensity:Note: No data availableWater solubility:Note: No data availablePartition coefficient: n-octanol/water:Note: No data availableIgnition temperature:444 °CViscosity, dynamic:Note: No data availableViscosity, kinematic:Note: No data available	
Upper flammability limit:15.7 %(V)Vapor pressure:871.9 kPa at 21 °C(70 °F)Vapor density:Note: No data availableDensity:Note: No data availableWater solubility:Note: No data availablePartition coefficient: n-octanol/water:Note: No data availableIgnition temperature:444 °CViscosity, dynamic:Note: No data availableViscosity, kinematic:Note: No data available	
Vapor pressure:871.9 kPa at 21 °C(70 °F)Vapor density:Note: No data availableDensity:Note: No data availableWater solubility:Note: No data availablePartition coefficient: n-octanol/water:Note: No data availableIgnition temperature Viscosity, dynamic:444 °CViscosity, kinematic:Note: No data available	
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Density: Note: No data availableWater solubility: Note: No data availablePartition coefficient: n-octanol/water: Note: No data availableIgnition temperature: 444 °CViscosity, dynamic: Note: No data availableViscosity, kinematic: Note: No data available	
Water solubility: Note: No data availablePartition coefficient: n-octanol/water: Note: No data availableIgnition temperature: 444 °CViscosity, dynamic: Note: No data availableViscosity, kinematic: Note: No data available	
Partition coefficient: n-octanol/water: Note: No data availableIgnition temperature: 444 °CViscosity, dynamic: Note: No data availableViscosity, kinematic: Note: No data available	
n-octanol/water Ignition temperature : 444 °C Viscosity, dynamic : Note: No data available Viscosity, kinematic : Note: No data available	
Viscosity, dynamic : Note: No data available Viscosity, kinematic : Note: No data available	
Viscosity, kinematic : Note: No data available	
Oxidizing properties : The substance or mixture is not classified as oxidizin	
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SECTION 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions Conditions to avoid	 Hazardous polymerisation does not occur. Keep away from heat and sources of ignition. Pressurized container. Protect from sunlight and do not expose
	to temperatures exceeding 50 °C. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Decomposes under high temperature. Some risk may be expected of corrosive and toxic decomposition products.
Incompatible materials	 Alkali metals Oxidizers (e.g. peroxide residues present in insufficiently cured rubbers) Finely divided metal powders such as aluminum, magnesium, or zinc.
Hazardous decomposition products	 In case of fire hazardous decomposition products may be produced such as: Hydrogen fluoride Carbonyl halides Carbon monoxide Carbon dioxide (CO2)
SECTION 11. TOXICOLOGICAL IN	NFORMATION
Acute inhalation toxicity 2,3,3,3-Tetrafluoroprop-1-ene	: LC50: > 400000 ppm Exposure time: 4 h Species: Rat Method: OECD Test Guideline 403
Difluoromethane	: LC50: > 520000 ppm Exposure time: 4 h Species: Rat
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Skin irritation 2,3,3,3-Tetrafluoroprop-1-ene	: Note: Not applicable study technically not feasible	
Eye irritation 2,3,3,3-Tetrafluoroprop-1-ene	: Note: Not applicable study technically not feasible	
Sensitisation 2,3,3,3-Tetrafluoroprop-1-ene	: Dermal Note: Not applicable, as this product is study technically not feasible	a gas.
Difluoromethane	: Cardiac sensitization Species: dogs Note: No-observed-effect level >350 000 ppm	
Repeated dose toxicity 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 le Method: OECD Test Guideline 412 Species: Rat Application Route: Inhalation	evel): 50000 ppm
	Exposure time: (13 Weeks) NOAEL (No observed adverse effect le Method: OECD Test Guideline 413	evel): 50000 ppm
	Species: Rabbit, male Application Route: Inhalation Exposure time: (28 d) No-observed-effect level: 500 ppm	
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		Method: OECD Test Guideline 412 There are no observed toxicological effects classification as a specific target organ toxi	
		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 classification as a specific target organ toxic	
		Species: Mini-pig Application Route: Inhalation Exposure time: (28 d) NOAEL (No observed adverse effect level) highest exposure tested	: 10000 ppm
Difluoromethane	:	Species: Rat Application Route: Inhalation Exposure time: (90 d) NOEL: 50000 ppm Subchronic toxicity	
Genotoxicity in vitro 2,3,3,3-Tetrafluoroprop-1-ene	:	Test Method: Ames test Result: 20% and higher, positive in TA 100 uvrA, negative in TA98, TA100, and TA153 Method: OECD Test Guideline 471	
Difluoromethane	:	Test Method: Ames test Result: negative	
	:	Test Method: Chromosome aberration test Cell type: Human lymphocytes Result: negative Method: OECD Test Guideline 473 Note: Dose 760,000 ppm	in vitro
	:	Cell type: Human lymphocytes Result: negative Method: Mutagenicity (in vitro mammalian	cytogenetic test)

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ersion 1.4	Revision Date 11/15/2024	Print Date 03/07/2025
	: Test Method: Chromosome aberrati Result: negative	on test in vitro
Genotoxicity in vivo 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 syn Dose: up to 50,000 ppm (4 weeks) Method: OECD Test Guideline 486 Result: negative	nthesis
	: Species: Rat Cell type: Micronucleus Dose: up to 50,000 ppm (4 weeks) Method: OECD Test Guideline 474 Result: negative	
Difluoromethane	: Species: Mouse Cell type: Bone marrow Method: Mutagenicity (micronucleus Result: negative	s test)
Carcinogenicity 2,3,3,3-Tetrafluoroprop-1-ene	: Species: Rat Note: Not classified as a human car expected to be a carcinogen based	
Teratogenicity Difluoromethane	: Species: Rat Dose: NOEL - 50,000 ppm Note: Did not show teratogenic effe	cts in animal experiments.
	Species: Rabbit Dose: NOEL - 50,000 ppm Note: Did not show teratogenic effe	cts in animal experiments.
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SECTION 12. ECOLOGICAL INFOR	MATION
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.
Toxicity to daphnia and other aq 2,3,3,3-Tetrafluoroprop-1-ene	
Toxicity to algae 2,3,3,3-Tetrafluoroprop-1-ene	: EC50: > 100 mg/l Species: Scenedesmus capricornutum (fresh water algae) Method: OECD Test Guideline 201
Bioaccumulation 2,3,3,3-Tetrafluoroprop-1-ene	: Note: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.
Biodegradability 2,3,3,3-Tetrafluoroprop-1-ene	: Result: Not readily biodegradable. Method: OECD Test Guideline 301F
Difluoromethane	: Note: Minimal
Further information on ecolog	У
SECTION 13. DISPOSAL CONSIDE	RATIONS
Disposal methods	: Observe all Federal, State, and Local Environmental regulations.
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DOT	UN/ID No. Proper shipping name	: UN 3161 : LIQUEFIED GAS, FLA (R-1234yf, Difluorome	
	Class Packing group Hazard Labels	2.1 2.1	
ΙΑΤΑ	UN/ID No. Description of the goods	: UN 3161 : LIQUEFIED GAS, FLA (R-1234yf, Difluorome	
	Class Hazard Labels Packing instruction (cargo aircraft)	: 2.1 : 2.1 : 200	
IMDG	UN/ID No. Description of the goods	: UN 3161 : LIQUEFIED GAS, FLA (R-1234yf, DIFLUORC	
	Class Hazard Labels EmS Number	: 2.1 : 2.1 : F-D, S-U	
	Marine pollutant IMDG Code segregation grou	: no	I : NONE,
SECTION 15.	REGULATORY INFORMATIO	N	
Inventorie	es		
Substance (TSCA) C	es on the Toxic es Control Act	tances listed as active on th	e TSCA inventory
		ponents are listed on the inv ons/restrictions apply	entory, regulatory
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Canada. Domestic Substances List (DSL), as amended	:	All components of this product are	on the Canadian 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)	:	On the inventory, or in compliance	with the inventory	
China. Inventory of Existing Chemical Substances (IECSC)	:	On the inventory, or in compliance	with the inventory	
Thailand. Existing Chemicals Inventory from FDA (TECI List)	:	On the inventory, or in compliance	with the inventory	
Taiwan Chemical Substance Inventory (TCSI)	:	On the inventory, or in compliance	with the inventory	
TSCA 5A	:	US. Toxic Substances Control Act Proposed Significant New Use Rul Subpt E) The following substance(s) is/are s Use Rule:	es (SNURs) (40 CFR 721,	
TSCA 12B	:	2,3,3,3-Tetrafluoroprop-1-ene US. Toxic Substances Control Act Notification (40 CFR 707, Subpt D) The following substance(s) is/are s notification requirements: 2,3,3,3-Tetrafluoroprop-1-ene	$\tilde{\boldsymbol{\boldsymbol{\lambda}}}$	
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.		
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	: 2,3,3,3-Tetrafluoroprop-1-ene	754-12-1	
SARA 302 Components	: No chemicals in this material are requirements of SARA Title III, \$		
SARA 313 Components	: This material does not contain a known CAS numbers that excee reporting levels established by S	ed the threshold (De Minimis)	
SARA 311/312 Hazards	: Fire Hazard Sudden Release of Pressure Ha Acute Health Hazard	azard	
California Prop. 65	listed below, known to the State	can expose you to chemicals, of California to cause cancer and re harm. For more information go 75-09-2 74-87-3	
Massachusetts RTK	: Dichloromethane	75-09-2	
New Jersey RTK	: 2,3,3,3-Tetrafluoroprop-1-ene : Difluoromethane	754-12-1 75-10-5	
Pennsylvania RTK	: 2,3,3,3-Tetrafluoroprop-1-ene : Difluoromethane	754-12-1 75-10-5	
SECTION 16. OTHER INFORMATION			
	HMIS III NFPA		
Health hazard	: 1 2		
Flammability	: 4 4		
Physical Hazard Instability	: 1 : 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

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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.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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