Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 08/01/2017 Supersedes:09/02/2015

Version: 1.2

FRECN 134a / Genetron 134a / HCFC-134a / HFA 134a / HFC-134a / HFA 134a / HFA 1	Product identifier	
Product form : Substance Trade name : BUSINESS SOURCE R134A DUSTER 10 OZ. CAS No : 811-97-2 Product code : BSN24309 Formula : C24P24 Synonyms : CARCTON 134a / ethane, 1,1,1,2-tetrafluoro-/F134a / FC 134a / formacel Z-4 blowing RECON 134a / refrigerant R134a / Kelgas / noffunant / R134a / SUVA cold-mp / ac/ SUVA-134a tetrafluorethane / K134a / Superator R134a / Supera		bstance/mixture and of the company/undertaking
Trade name : BUSINESS SOURCE R134A DUSTER 10 0Z. CAS No : 811-97-2 Product code : BSN424309 Formula : C2H2F4 Synonyms : ARCTON 134a / statane, 1,1,1,2-tetrafluoro- / F134a / FC 134a / ItFC 134a / R134a / TC 134a / ItFC 134a / R134a / C 174a / Stata / Stat	at form	
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	Other hazards	: Contains gas under pressure; may explode if heated. Intentional misuse and inhalation abuse
2.4. Unknown acute toxicity (GHS US)	hazards not contributing to the	may cause cardiac or central nervous systems effects. Warning. May Cause frostbite in conta with skin. (Liquid form can be ejected if the aerosol can is not held upright during use.) Warning. Asphyxiant in high concentrations This product dispenses liquid. Liquid may drip onto skin causing frostbite, blistering, red skin. WARNING None under normal conditions.
No data available	hazards not contributing to the fication	with skin. (Liquid form can be ejected if the aerosol can is not held upright during use.) Warning. Asphyxiant in high concentrations This product dispenses liquid. Liquid may drip
SECTION 3: Composition/Information on ingredients	hazards not contributing to the fication	with skin. (Liquid form can be ejected if the aerosol can is not held upright during use.) Warning. Asphyxiant in high concentrations This product dispenses liquid. Liquid may drip
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Substance type : Mono-constituent	hazards not contributing to the fication Unknown acute toxicity (GHS US) ata available TION 3: Composition/Information	with skin. (Liquid form can be ejected if the aerosol can is not held upright during use.) Warning. Asphyxiant in high concentrations This product dispenses liquid. Liquid may drip onto skin causing frostbite, blistering, red skin. WARNING None under normal conditions.
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Full text of H-phrases: see section 16

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

3.2. Mixtures

Not applicable

The exact percentage is a trade secret.

The exact percentage is a trade secret.		
SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.	
First-aid measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.	
First-aid measures after skin contact	: Rinse with water. Take victim to a doctor if irritation persists. In case of frostbites: Wash immediately with lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.	
First-aid measures after eye contact	: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist.	
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.	
4.2. Most important symptoms and effe	ects, both acute and delayed	
Symptoms/injuries Symptoms/injuries after inhalation	 Not expected to present a significant hazard under anticipated conditions of normal use. EXPOSURE TO HIGH CONCENTRATIONS: Accelerated heart action. Disturbances of heart rate. Coordination disorders. Feeling of weakness. Respiratory difficulties. Vomiting. Nausea. Disturbances of consciousness. Risk of lung oedema. Respiratory collapse. 	
Symptoms/injuries after skin contact	: Red skin. Blisters. Frostbites.	
Chronic symptoms	: No effects known.	
4.3. Indication of any immediate medicate	al attention and special treatment needed	
No additional information available		
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Quick-acting ABC powder extinguisher. Quick-acting BC powder extinguisher.	
Unsuitable extinguishing media	: Quick-acting CO2 extinguisher. Water (water can be used to control jet flame). Foam. Water (water can be used to control jet flame). Foam.	
5.2. Special hazards arising from the su		
Fire hazard	: DIRECT FIRE HAZARD: Non-flammable.	
Explosion hazard	: INDIRECT EXPLOSION HAZARD: Contains gas under pressure; may explode if heated.	
Reactivity	: Reacts with (some) acids.	
5.3. Advice for firefighters		
Precautionary measures fire	: Exposure to fire/heat: consider evacuation.	
Firefighting instructions	: Cool tanks/drums with water spray/remove them into safety. Physical explosion risk: cool from behind cover. Do not move the load if exposed to heat. After cooling: persistant risk of physical explosion. Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.	
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.	
Other information	: NFPA Aerosol Level 1.	
SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
General measures	: Avoid contact with skin and eyes. Do not handle until all safety precautions have been read and understood.	
6.1.1. For non-emergency personnel		
Protective equipment	: Insulating gloves. Protective clothing. Large spills/in enclosed spaces: compressed air apparatus.	
Emergency procedures	: Keep upwind. Mark the danger area. Seal off low-lying areas. Close doors and windows of adjacent premises. No naked flames. Carry out specific temperature controls. Wash contaminated clothes. Large spills/in confined spaces: consider evacuation.	

6.1.2. For emergency responders

Protective equipment

: Equip cleanup crew with proper protection.

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Emergency procedures	: Ventilate area.
2. Environmental precautions	
Prevent entry to sewers and public waters.	Notify authorities if liquid enters sewers or public waters.
.3. Methods and material for conta	ainment and cleaning up
For containment	: Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Tip the container on one side to stop the leakage. Do not spray water on unheated tank walls.
Nethods for cleaning up	: Damaged/cooled tanks must be emptied.
.4. Reference to other sections	
See Heading 8. Exposure controls and per	sonal protection.
SECTION 7: Handling and storage	ge
7.1. Precautions for safe handling	
Additional hazards when processed	: Pressurized container: Do not pierce or burn, even after use.
Precautions for safe handling	: Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Measure the oxygen concentration in the air Comply with the legal requirements. Handle and open the container with care. Thoroughly clean/dry the installation before use.
lygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Take of immediately all contaminated clothing and wash it before reuse. Always wash hands after handling the product. Wash contaminated clothing before reuse. Wash affected areas thoroughly after handling. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately.
7.2. Conditions for safe storage, in	cluding any incompatibilities
echnical measures	: Comply with applicable regulations.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
ncompatible products	: Strong bases. Strong acids.
ncompatible materials	: Sources of ignition. Direct sunlight.
Storage temperature	: < 50 °C
leat-ignition	: KEEP SUBSTANCE AWAY FROM: heat sources.
nformation on mixed storage	: KEEP SUBSTANCE AWAY FROM: (strong) acids.
Storage area	: Store in a cool area. Keep out of direct sunlight. Ventilation at floor level. Aboveground. Meet the legal requirements.
Special rules on packaging	: SPECIAL REQUIREMENTS: with pressure relief valve. clean. correctly labelled. meet the leg requirements.
7.2 Crossifie and use(a)	

Specific end use(s) 7.3.

Follow Label Directions.

SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
8.2. Exposure controls		
Appropriate engineering controls	: Local exhaust venilation, vent hoods . Ensure good ventilation of the work station.	
Personal protective equipment	: Gloves. Safety glasses. Avoid all unnecessary exposure.	
Materials for protective clothing	: GIVE GOOD RESISTANCE: neoprene. nitrile rubber. butyl rubber.	
Hand protection	: Insulated gloves.	
Eye protection	: Safety glasses. Chemical goggles or safety glasses.	
Skin and body protection	: Protective clothing. Wear suitable protective clothing.	
Respiratory protection	: High vapour/gas concentration: self-contained respirator.	
Environmental exposure controls	: Avoid release to the environment.	
Consumer exposure controls	: Avoid contact during pregnancy/while nursing.	
Other information	: Do not eat, drink or smoke during use.	

SECTION 9: Physical and chemical properties

9.1.	Information on basic physical and chemical propert
Physica	al state : Gas

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations			
Appearance	: Gas.		
Molecular mass	: 102.03 g/mol		
Color	: Colourless.		
Odor	: Mild odour. Ether-like odour.		
Odor threshold	: No data available		
рН	: 7 (0.1 g/100 ml, 25 °C)		
Relative evaporation rate (butyl acetate=1)	: No data available		
Melting point	: -108 °C		
Freezing point	: No data available		
Boiling point	: -26 °C (1013 hPa)		
Flash point	: No data available		
Critical temperature	: 101 °C		
Auto-ignition temperature	: > 743 °C (1013 hPa)		
Decomposition temperature	: 368 °C		
Flammability (solid, gas)	: No data available		
Vapor pressure	: 6661 hPa @ 25 deg C		
Vapor pressure at 50 °C	: 13190 hPa		
Critical pressure	: 40560 hPa		
Relative vapor density at 20 °C	: < 3.52 @ 20 deg C		
Relative density	: 1.2 @ -27 deg C		
Specific gravity / density	: 1206 kg/m³ @ -27 deg C		
Solubility	: Poorly soluble in water. Soluble in ethanol. Soluble in ether. Soluble in hexane. Water: 0.15 g/100ml @ 25 deg C		
Log Pow	 1.06 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C) 		
Log Kow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidizing properties : No data available			
Explosion limits	: No data available		
9.2. Other information			
VOC content	: 100 % VOC Exempt		
Other properties	: Gas/vapour heavier than air at 20°C. Neutral reaction. May generate electrostatic charges.		
SECTION 10: Stability and reactivity			
10.1. Reactivity			
Reacts with (some) acids.			
10.2. Chemical stability			
Stable under normal conditions.			
10.3. Possibility of hazardous reactions			
Not established.			
10.4. Conditions to avoid			
Direct sunlight. Extremely high or low temperatures.			
10.5. Incompatible materials			
Strong acids. Strong bases.			
10.6. Hazardous decomposition products			
Toxic fume Carbon monoxide. Carbon dioxide.			
SECTION 11: Toxicological informa	tion		
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
Skin corrosion/irritation	: Not classified		
	pH: 7 (0.1 g/100 ml, 25 °C)		
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Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Serious eye damage/irritation	: Not classified
	pH: 7 (0.1 g/100 ml, 25 °C)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity - single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	 EXPOSURE TO HIGH CONCENTRATIONS: Accelerated heart action. Disturbances of heart rate. Coordination disorders. Feeling of weakness. Respiratory difficulties. Vomiting. Nausea. Disturbances of consciousness. Risk of lung oedema. Respiratory collapse.
Symptoms/injuries after skin contact	: Red skin. Blisters. Frostbites.
Chronic symptoms	: No effects known.

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general :	Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.	
Ecology - air :	Included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).	
Ecology - water :	Slightly harmful to crustacea. Slightly harmful to fishes. Slightly harmful to algae. Slightly harmful to bacteria.	
BUSINESS SOURCE R134A DUSTER 10 OZ. (8	311-97-2)	
LC50 fish 1	450 mg/l (EU Method C.1, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, GLP)	
EC50 Daphnia 1	980 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental	

	Experimental value, GLP)
EC50 Daphnia 1	980 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 (algae)	> 118 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Weight of evidence, GLP)
12.2. Persistence and degradability	

BUSINESS SOURCE R134A DUSTER 10 OZ. (811-97-2)		
Persistence and degradability	Not readily biodegradable in water.	
12.3. Bioaccumulative potential		
BUSINESS SOURCE R134A DUSTER 10 OZ.	(811-97-2)	
BCF fish 1	5 - 58 (Pisces, Literature study, Estimated value)	
Log Pow	1.06 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
12.4. Mobility in soil		
BUSINESS SOURCE R134A DUSTER 10 OZ. (811-97-2)		
Ecology - soil	Not applicable (gas).	
12.5. Other adverse effects		
Other information	: Avoid release to the environment.	
SECTION 13: Disposal consideration	S	
13.1. Waste treatment methods		
Product/Packaging disposal recommendations	: Do not discharge into the sewer. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Refer to manufacturer/supplier for information on recovery/ recycling.	

 Additional information
 : Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

25/10/2018

: Avoid release to the environment.

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations		
SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN		
US DOT (ground): UN1950, Aerosols, non-	S DOT (ground): UN1950, Aerosols, non-flammable, 2.2, Limited Quantity	
ICAO/IATA (air): UN1950, Aerosols, non-	flammable, 2.2 , Limited Quantity	
IMO/IMDG (water): UN1950, Aerosols, non-	flammable, 2, Limited Quantity	
	rdance with this special permit, the product container is marked with DOT-SP10232 instead of 2Q. ved for shipping as a Consumer Commodity.	
14.2. UN proper shipping name		
Proper Shipping Name (DOT) : Aerosols, non-flammable		
	Non-flammable, (each not exceeding 1 L capacity)	
Class (DOT)	: 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115	
Hazard labels (DOT)	: 2.2 - Non-flammable gas	
	NN-FLAMMABLE GAS	
DOT Special Provisions (49 CFR 172.102)	: DOT-SP 10232: In accordance with this special permit, the product container is marked with DOT-SP10232 instead of 2Q. This packaging is approved for shipping as a Consumer Commodity.	
DOT Packaging Exceptions (49 CFR 173.xxx)	: 306	
DOT Packaging Non Bulk (49 CFR 173.xxx)	: None	
DOT Packaging Bulk (49 CFR 173.xxx)	: None	
Marine pollutant	: -	
14.3. Additional information		
Other information	: No supplementary information available.	
Overland transport Hazard identification number (Kemler No.) Orange plates	: 20 : 20	
	3159	
Tunnel restriction code (ADR)	: C/E	
Transport by sea		
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.	
DOT Vessel Stowage Other	: 48 - Stow "away from" sources of heat,87 - Stow "separated from" Class 1 (explosives) except Division 14,126 - Segregation same as for Class 9, miscellaneous hazardous materials	
EmS-No. (1)	: F-C	
EmS-No. (2)	: S-V	
Air transport		
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 75 kg	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 150 kg	
SECTION 15: Regulatory information		
15.1. US Federal regulations		
BUSINESS SOURCE R134A DUSTER 10 OZ.	811-97-2)	
Listed on the United States TSCA (Toxic Substa		
SARA Section 311/312 Hazard Classes	Sudden release of pressure hazard	
	Immediate (acute) health hazard	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

15.2. International regulations			
	CANADA		
BUSINESS SOURCE R134A DUSTER 10 OZ. (811-97-2)		311-97-2)	
	WHMIS Classification	Class A - Compressed Gas	

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Liquefied gas H280

Full text of hazard classes and H-statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Not classified

15.2.2. National regulations

No additional information available

15.3. US State regulations

5	
BUSINESS SOURCE R134A DUSTER 10 OZ. (811-97-2)	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No

SECTION 16: Other information	
Indication of changes	: Revision - See : *.
Other information	: None.
Full text of H-phrases:	
H280	Contains gas under pressure; may explode if heated
NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.
HMIS III Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 0 Minimal Hazard
Physical	: 1 Slight Hazard
Personal Protection	: В

SDS US (GHS HazCom 2012) - TCC

The Supplier identified in Section 1 of this SDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product

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