

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 09/02/2015 :

Version: 1.1

SECTION 1: Identification of the s	ubstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Trade name	: JOHNSEN'S R134A WITH UV DYE 30 LB CYLINDER
Product code	: 6331
	ubstance or mixture and uses advised against
Use of the substance/mixture	: Refrigerant
1.3. Details of the supplier of the safe	ty data sheet
Technical Chemical Company P.O. BOX 139 Cleburne, Texas 76033 T 817-645-6088	
1.4. Emergency telephone number	
Emergency number	: CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International)
SECTION 2: Hazards identification	h
2.1. Classification of the substance of	r mixture
Classification (GHS-US)	
Liquefied gas H280	
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	GHS04
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H280 - Contains gas under pressure; may explode if heated
Precautionary statements (GHS-US)	: P410+P403 - Protect from sunlight. Store in a well-ventilated place
	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
2.3. Other hazards	
Other hazards not contributing to the classification	: Contains gas under pressure; may explode if heated. Intentional misuse and inhalation abuse may cause cardiac or central nervous systems effects. Warning. May Cause frostbite in conta with skin. May Cause frostbite in contact with skin. (Liquid form can be ejected if the aerosol can is not held upright during use.) Warning. This product dispenses liquid. Liquid may drip onto skin causing frostbite, blistering, red skin. WARNING. Asphyxiant in high concentration
2.4. Unknown acute toxicity (GHS US)	
No data available	tion on ingredients
No data available SECTION 3: Composition/informat	tion on ingredients
No data available SECTION 3: Composition/informat 3.1. Substance	tion on ingredients : 1,1,1,2-Tetrafluoroethane
No data available SECTION 3: Composition/informat	

Full text of H-phrases: see section 16

3.2. Mixture

Not applicable

The exact percentage is a trade secret.

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arrest: anticial respiration or oxygen. Cardiac arrest: perform resistation. Victim conscious with ilaourd braining, half-seaded. Victim in shock, with legs sightly raised. Vonting: purveit asphysial signifation preumonia, Prevent cooling by evolving the Victim in warming: up). Keep warking the victim. Give psychological aid. Keep the victim and, avoid physical strain. Depending on the victim's condition. doctom/bespila. First-aid measures after inhalation =: Remove the victim into resh air. Respiratory problems: consult a doctom/medical service. First-aid measures after inhalation =: Remove the victim into the risk air. Respiratory problems: consult a doctom/medical service. First-aid measures after skin contact : Rinse with water. Take victim to a doctor if initiation persists. In case of forsthies: Wash investion to happit. First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Tak within to an ophthalmologist. First-aid measures after inpestion : Not applicable. First-aid measures after inpestion : Not applicable. First-aid measures after inhalation : EXPOSURE TO HIGH CONCENTRATIONS: Accelerated heart action. Disturbances of nomal use. Symptoms/injuries after inhalation : EXPOSURE TO HIGH CONCENTRATIONS: Accelerated heart action. Disturbances of na resultances of consciouses. Risk of lung oodman. Respiratory collapse. Symptoms/injuries after inhalation : Not applicable. Symptoms/injuries after inhalation : Not applicable. Symptoms/injuries after inhalation : Not applicable. Symptoms/injuries after inselsion : Not applicable. Symptoms/injuries after inselsion. Second a symptoms/indures after jage and insels. Site to an an advect second and an editor dovide. Water spray. Sand. Unsuitable astinguishing media : Don or tuse a heavy water stream. Site of dovide, rationyfilton decide. Site for finglighting Con conting reflesion : Not applicable. Site for finglighting instructions : Nort applicable. Site for dovide, rationyfiltonyfilton decide	irst-aid measures general : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiration on oxygen. Cardiac arrest: perform resuscitation. Vitation conscious with laboured breathing: half-sealed. Victim in shock: on his back with less slightly raised. Victim in shock: on his back with victim (no onecous with laboured breathing: half-sealed. Victim in shock: on his back with victim (no onecous with laboured breathing: half-sealed. Victim in shock: on his back with victim (no onecous with laboured breathing: half-sealed. Victim in shock: on his back with victim (no apply sealed) and y victim (apply sealed) and y victim so consult a doctorimedical service. It is victim adm, avaid physical stain. Depending on the victim (apply sealed). Do not apply (chorined) neuralizing agents. Remove the victim into fresh air. Respiratory problems: consult a doctorimedical service. If unreal surfaces > 10%: tak victim to a ophthalminoigat. irist-aid measures after skin contact : Remove the victim into fresh air. Respiratory problems: consult a doctorimedical service. If unreal surfaces > 10%: tak victim to an ophthalminoigat. irist-aid measures after ingestion : Not applicable. irist-aid measures after instaintion : Respiratory affictant hazard under anticipated conditions of normal use. irist-aid measures after instaintion : Not despicable. ir	SECTION 4: First aid measures	
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5.3. Methods and material for containment and cleaning up For containment Contain released substance, 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 wall	A.3. Methods and material for containment and cleaning up For containment : Contain released substance, 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 Methods for cleaning up : Store away from other materials. A.4. Reference to other sections		
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Tip the container on one side to stop the leakage. Do not spray water on unheated tank wall	Tip the container on one side to stop the leakage. Do not spray water on unheated tank walls Methods for cleaning up : Store away from other materials. .4. Reference to other sections		Notify authorities if liquid enters sewers or public waters.
Vethods for cleaning up : Store away from other materials.	.4. Reference to other sections	Prevent entry to sewers and public waters.	· · · · · · · · · · · · · · · · · · ·
		Prevent entry to sewers and public waters. 5.3. Methods and material for conta For containment	 inment and cleaning up Contain released substance, 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

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Pressurized container: Do not pierce or burn, even after use.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Wash affected areas thoroughly after handling. Do not eat, drink or smoke when using this product.
7.2. Conditions for safe storage, inclu	ding any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
Storage area	: Store in a well-ventilated place.
7.3. Specific end use(s)	
Follow Label Directions.	
SECTION 8: Exposure controls/per	sonal 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. butyl rubber.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear appropriate mask.

Other information

ON 0. Develop and showing how ortige	

SECTION 9: Physical and chemica	l properties
9.1. Information on basic physical and	d chemical properties
Physical state	: Gas
Appearance	: Liquefied gas.
Molecular mass	: 102.03 g/mol
Color	: Colourless.
Odor	: Ether-like odour.
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: -101 °C
Freezing point	: No data available
Boiling point	: -26 °C
Flash point	: No data available
Critical temperature	: 101 °C
Auto-ignition temperature	: >743 °C
Decomposition temperature	: 368 °C
Flammability (solid, gas)	: No data available
Vapor pressure	: 6661 hPa @ 25 deg C
Vapor pressure at 50 °C	: 13190 hPa

: Do not eat, drink or smoke during use.

: 40560 hPa : < 3.52 @ 20 deg C

: 1.2 @ -27 deg C : 1206 kg/m³ @ -27 deg C

Critical pressure

Relative density

Relative vapor density at 20 °C

Specific gravity / density

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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 (OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)
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
Gas group	: Gas/vapour heavier than air at 20°C. Substance has neutral reaction. May generate electrostatic charges

SECTION 10: Stability and reactive	/ity	
10.1. Reactivity		
On burning: release of toxic and corrosive ga (some) acids.	ases/vapours (hydrofluoric acid, carbon monoxide - carbon dioxide, carbonylfluoride). Reacts with	
10.2. Chemical stability		
Not established.		
10.3. Possibility of hazardous reaction	ns	
Not established.		
10.4. Conditions to avoid		
Direct sunlight. Extremely high or low tempe	ratures.	
10.5. Incompatible materials		
Strong acids. Strong bases.		
10.6. Hazardous decomposition produced	ucts	
Toxic fume Carbon monoxide. Carbon diox	kide.	
SECTION 11: Toxicological inform	nation	
11.1. Information on toxicological effe	ects	
Acute toxicity	: Not classified	
1,1,1,2-Tetrafluoroethane (811-97-2)		
LC50 inhalation rat (mg/l)	> 2000 mg/l/4h (Rat; Literature study)	
LC50 inhalation rat (ppm)	> 359300 ppm/4h (Rat; Literature study)	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: Not classified	

Carcinogenicity	:	Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	-	Not classified 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.
Symptoms/injuries after eye contact	:	Not applicable.
Symptoms/injuries after ingestion	:	Not applicable.
Chronic symptoms	:	No effects known.

Germ cell mutagenicity

: Not classified

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	ogical information	March 26, 2012 / Rules and Regulations
12.1. Toxicity	ogical information	
1,1,1,2-Tetrafluoroeth	2200 (811-07-2)	
LC50 fish 1	idile (011-37-2)	450 mg/l (LC50; 96 h)
EC50 Daphnia 1		980 mg/l (EC50; 48 h)
	and degradability	
	VITH UV DYE 30 LB CYL	INDER
Persistence and degra		Not established.
1,1,1,2-Tetrafluoroeth	÷	
Persistence and degra		Not readily biodegradable in water.
12.3. Bioaccumula		
	VITH UV DYE 30 LB CYL	INDER
Log Pow		1.06 (OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)
Bioaccumulative poten	ıtial	Not established.
1,1,1,2-Tetrafluoroeth		
BCF other aquatic orga		5 - 58 (BCF)
Log Pow		1.06 (OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)
Bioaccumulative poten	itial	Low potential for bioaccumulation (BCF < 500).
12.4. Mobility in sc	pil	
No additional informatio	n available	
	e effecte	
12.5. Other advers Other information	e effects	· Avaid release to the environment
Juner mormation		: Avoid release to the environment.
SECTION 13: Disp	osal consideration	IS
I3.1. Waste treatm	ent methods	
Waste disposal recomm	endations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materia	ls	: Avoid release to the environment.
SECTION 14: Tran	sport information	
	. / RID / IMDG / IATA / AD	DN
US DOT (ground):	UN3159, 1,1,1,2-Tetraf	luoroethane, 2.2
CAO/IATA (air):	UN3159, 1,1,1,2-Tetraf	luoroethane, 2.2
IMO/IMDG (water):	UN3159, 1,1,1,2-Tetraf	
Special Provisions: T50 - When portable tank instruction T50 is referenced in Column (7) of the 172.101 Table, the applicable liquefied compressed gases are authorized to be transported in portable tanks in accordance with the requirements of 173.313 of this subchapter.		
14.2. UN proper sh	hipping name	
Proper Shipping Name (: 1,1,1,2-Tetrafluoroethane
Fransport hazard class(: 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115
Hazard labels (DOT)		: 2.2 - Non-flammable gas
DOT Special Provisions	(49 CFR 172.102)	: T50 - When portable tank instruction T50 is referenced in Column (7) of the 172.101 Table, the applicable liquefied compressed gases are authorized to be transported in portable tanks in accordance with the requirements of 173.313 of this subchapter.
DOT Packaging Excepti	ons (49 CFR 173.xxx)	: 306
OOT Packaging Non Bu	lk (49 CFR 173.xxx)	: 304
DOT Packaging Bulk (49	9 CFR 173.xxx)	: 314;315
14.3. Additional infor	rmation	
Other information		: No supplementary information available.

Overland transport

No additional information available

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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.
Air transport	

DOT Quantity Limitations Passenger aircraft/rail : 75 kg (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 150 kg CFR 175.75)

SECTION 15: Regulatory information		
15.1. US Federal regulations		
JOHNSEN'S R134A WITH UV DYE 30 LB CYLINDER		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Sudden release of pressure hazard	
1,1,1,2-Tetrafluoroethane (811-97-2)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
SARA Section 311/312 Hazard Classes	Sudden release of pressure hazard Immediate (acute) health hazard	

15.2. International regulations

CANADA

JOHNSEN'S R134A WITH UV DYE 30 LB CYLINDER	
WHMIS Classification	Class A - Compressed Gas
1,1,1,2-Tetrafluoroethane (811-97-2)	
WHMIS Classification	Class A - Compressed Gas

EU-Regulations

No additional information available

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

Not classified

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

JOHNSEN'S R134A WITH UV DYE 30 LB CYLINDER					
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			
1,1,1,2-Tetrafluoroethane (811-97-2)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	
No	No	No	No		

SECTION 16: Other information

Other in	nformation	: None.	
Full text of H-phrases:			
	Liquefied gas		Gases under pressure Liquefied gas
	H280		Contains gas under pressure; may explode if heated

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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	: B

SDS US (GHS HazCom 2012) - TCC

The Supplier identified in Section 1 of this MSDS 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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