

SAFETY DATA SHEET

OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03.

1. Identification

Product identifier	
Trade name	R-1234yf AC Compressor Fluid
Product description	R-1234yf AC Compressor Fluid
Details of the supplier of the safety data sh	neet
Manufacturer/supplier	FJC AC Products 101 Commercial Dr - Mooresville, NC 28115 704-664-3587

Emergency Telephone (24 hr)

INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)

2. Hazard(s) Identification

Classification of the substance or mixture

Label elements

GHS label elements

Hazard pictograms

Signal word Hazard statements The product is classified and labeled according to the Globally Harmonized System (GHS).



Warning Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. GHS07

GHS07



2. Hazard(s) Identification (continued)

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Precautionary statements	Wear protective gloves.
	Wear eye protection / face protection.
	Wash thoroughly after handling.
	Do not eat, drink or smoke when using this product.
	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do.
	Continue rinsing.
	If swallowed: Call a poison center/doctor if you feel unwell.
	Specific treatment (see on this label).
	If skin irritation occurs: Get medical advice/attention.
	If eye irritation persists: Get medical advice/attention.
	Rinse mouth.
	If on skin: Wash with plenty of water.
	Take off contaminated clothing and wash it before reuse.
	Dispose of contents/container in accordance with local/regional/national/
Classification system	international regulations.
NFPA ratings (scale 0-4)	
	<pre>100 Health=1; Fire=1; Reactivity=0</pre>
	HEALTH 1

3. Composition / Information on Ingredients

Chemical characterization: Dangerous Components Mixtures

FIRE

REACTIVITY 0

1

Polyalkylene Glycol 9003-13-2019 yte Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319

Health=1; Fire=1; Reactivity=0

4. First-aid Measures

Description of first aid measures

General information: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation: In case of unconsciousness, place patient securely on side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly. If irritation occurs consult a doctor.

After eye contact: Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor. After swallowing: Immediately call a doctor.

No further relevant information available.

5. Fire-fighting Measures

Extinguishing media Suitable extinguishing agents Special hazards arising from the substance or mixture Advice for firefighters

Protective equipment

 CO_2 or Powder. Water mist to cool, no direct water spray. Collect spillage. No further relevant information available.

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Not required
Environmental precautions	Do not allow to enter sewers/ surface or ground water
Methods and material for containment and cleaning up	Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Dispose of the collected material according to regulations.
Reference to other sections	See Section 7 for information on safe handling.
	See Section 8 for information on personal protection equipment.
	See Section 13 for disposal information.
7. Handling and Storage	
Precautions for safe handling	Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
Information about protection against and fires	No special measures required explosions
Conditions for safe storage, including any i	incompatibilities
Storage	
Requirements to be met by storerooms	No special requirements

8. Exposure Controls / Personal Protection

Additional information about design	No further data; see section 7
of technical systems Control	
parameters	
Components with occupational exposure	The product does not contain any relevant quantities of materials with critical
limits	values that have to be monitored at the workplace.
Additional information	The lists that were valid during the creation were used as basis.
Exposure controls	
Personal protective equipment	

General protective and hygienic measures

Breathing equipment Protection of hands



Material of gloves

Penetration time of glove material

Eye protection

Tightly sealed goggles

9. Physical and Chemical Properties

Information on basic physical and chemical properties

General Information

Appearance	
Form	Liquid
Color	See product
Odor	Mild
Odor Threshold	Not determined
pH-value	Not determined
Change in condition	
Melting point/Melting range	Not applicable
Boiling point/Boiling range	>570°F (>298°C)
Flash Point	>440°F (>227°C)
Flammability (solid, gaseous)	Not applicable
Ignition temperature	
Decomposition temperature	Not determined
Auto-igniting	Not determined
Danger of explosion	Not determined
Explosion limits	
Lower	Not determined
Upper	Not determined
Vapor Pressure @ 20 DEG C	<0.003 kPa
Density @ 20 DEG C	0.89-0.97
Relative Density	Not determined
Vapor Density	Not determined

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Not required

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/

Protective the preparation/ the chemical mixture. Select glove material based on gloves penetration times, rates of diffusion and degradation.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Evaporation Rate	Not determined
Solubility in/Miscibility with Water	Not miscible
Partition coefficient (n-octanol/water)	Not determined
Viscosity	
Viscosity - Dynamic	Varies with grade
Viscosity - Kinematic	Varies with grade
Solvent content	
Organic solvents	0.00%
Other Information	No further information

10. Stability and Reactivity

Reactivity	No further relevant information available
Chemical stability	Stable under normal conditions
Thermal decomposition / conditions to	No decomposition if used according to specifications
be avoided	
Possibility of hazardous reactions	No dangerous reactions known
Conditions to avoid	No further relevant information available
Incompatible materials	No further relevant information available
Hazardous decomposition products	No dangerous decomposition products known

11. Toxicological Information

Information on toxicological effects	
Acute toxicity	
LD/LC50 values that are relevant for classifi 9003-13-8 Polyalkylene Glycol Primary irritant effect:	ication Oral: LD50 >300- <2000 mg/kg (rat) Dermal: LD50 >2000 mg/kg (rat)
On the skin	Irritant to skin and mucous membranes
On the eye	Irritating effect. Causes serious eye irritation
Additional toxicological information	The product shows the following dangers according to internally approved calculation methods for preparations: Harmful. Irritant.
Carcinogenic categories	
IARC (International Agency for Research on Cancer)	None of the ingredients are listed. Group 1 - Carcinogenic to humans Group 2A - Probably carcinogenic to humans Group 2B - Possibly carcinogenic to humans Group 3 - Not classifiable as to its carcinogenicity to humans Group 4 - Probably not carcinogenic to humans
NTP (National Toxicology Program)	None of the ingredients are listed
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredients are listed

12. Ecological Information

Toxicity Aquatic toxicity Persistence and degradability Bioaccumulative potential Mobility in soil Additional ecological information General notes No data is available on this product. No further relevant information available No further relevant information available No further relevant information available No further relevant information available

Water hazard class 1 (Self-assessment): slightly hazardous for water

13. Disposal Considerations

Uncleaned packaging

Disposal must be made according to official regulations

14. Transportation Information

UN-Number

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- DOT, ADR, ADN, IMDG, IATA Non-regulated material
- UN proper shipping name
- DOT, ADR, ADN, IMDG, IATA Non-regulated material
- Transport hazard class(es)
- DOT, ADR, ADN, IMDG, IATA
 - Class Non-regulated material
- Packing group
- DOT, ADR, IMDG, IATA Non-regulated material
- Environmental hazards
- Marine pollutant
 No
- Special precautions for user Not applicable
- Transport in bulk according to Annex II Not applicable of MARPOL73/78 and the IBC Code
- UN "Model Regulation"

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture Section 355 (extremely: None of the ingredients are listed hazardous substances) Section 313 (Specific toxic: None of the ingredients are listed chemical listings) TSCA (Toxic Substances Control Act) 68515-49-1: Diisodecyl Phthalate Proposition 65 Chemicals known to cause cancer None of the ingredients are listeD Chemicals known to cause reproductive None of the ingredients are listed toxicity for females Chemicals known to cause reproductive None of the ingredients are listed toxicity for males Chemicals known to cause developmental 68515-49-1: Diisodecyl Phthalate Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients are listed TLV (Threshold Limit Value established None of the ingredients are listed by ACGIH) NIOSH-Ca (National Institute for None of the ingredients are listed Occupational Safety and Health) GHS label elements Non-regulated material Hazard pictograms GHS07

Warning

Polyalkylene Glycol

Signal word Hazard-determining components of labeling Hazard statements

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.

Precautionary statements	Wear protective gloves.
	Wear eye protection / face protection.
	Wash thoroughly after handling.
	Do not eat, drink or smoke when using this product.
	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do.
	Continue rinsing.
	If swallowed: Call a poison center/doctor if you feel unwell.
	Specific treatment (see on this label).
	If skin irritation occurs: Get medical advice/attention.
	If eye irritation persists: Get medical advice/attention.
	Rinse mouth.
	If on skin: Wash with plenty of water.
	Take off contaminated clothing and wash it before reuse.
	Dispose of contents/container in accordance with local/regional/national/
	international regulations.
National regulations	The product is subject to be labeled according with the prevailing version of the
	regulations on hazardous substances.
State Right to Know	Polyalkylene Glycol
	9003-13-8 yte Tox. 4, H302; Skin Irrit. 2, H315;
	Eye Irrit. 2A, H319
Chemical safety assessment	A chemical safety assessment has not been carried out

16. Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Date of preparation	
Date of Revision	

02/19/2016 / 1 03-Jan-2023

Abbreviations and acronyms	ADR: Accord européen sur le transport des marchandises dangereuses par Route
	(European Agreement concerning the International
	Carriage of Dangerous Goods by Road)
	ADN: The European Agreement concerning the International Carriage of Dangerous
	Goods by Inland Waterways
	IMDG: International Maritime Code for Dangerous Goods
	DOT: US Department of Transportation
	IATA: International Air Transport Association
	ACGIH: American Conference of Governmental Industrial Hygienists
	EINECS: European Inventory of Existing Commercial Chemical Substances
	ELINCS: European List of Notified Chemical Substances
	CAS: Chemical Abstracts Service (division of the American Chemical Society)
	NFPA: National Fire Protection Association (USA)
	HMIS: Hazardous Materials Identification System (USA)
	LC50: Lethal concentration, 50 percent
	LD50: Lethal dose, 50 percent
	Acute Tox. 4: Acute toxicity, Hazard Category 4
	Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
	Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
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