



R1234yf w/Safe Seal 8oz

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)
Issue date: 2025-01-15 Revision date: 2025-01-15 Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : R1234yf w/Safe Seal 8oz
Product code : BLA600yfACN, BLA601yfCN

1.2. Recommended use and restrictions on use

Recommended use : Automotive products

1.3. Supplier

Manufacturer

AC Avalanche LLC
809 110th Street
Arlington, Texas, 76011
USA
T 737-377-0194

Distributor

Princess Auto
475 Panet Road
Winnipeg, MB R2C 2Z1
Canada
Tel: (204) 667-4630

1.4. Emergency telephone number

Emergency number : CHEMTREC 800-424-9300

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Flammable gases, Category 1	H220	Extremely flammable gas
Gases under pressure: Liquefied gas	H280	Contains gas under pressure; may explode if heated
Simple Asphyxiant		May displace oxygen and cause rapid suffocation

2.2. GHS Label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms (GHS-CA) :



Signal word (GHS CA) : Danger

Hazard statements (GHS-CA) :

H220 - Extremely flammable gas
H280 - Contains gas under pressure; may explode if heated
May displace oxygen and cause rapid suffocation

Precautionary statements (GHS-CA) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381 - In case of leakage, eliminate all ignition sources.
P403 - Store in a well-ventilated place.
P410+P403 - Protect from sunlight. Store in a well-ventilated place.

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2.3. Other hazards

Other hazards which do not result in classification : Vapors are heavier than air and can cause suffocation by reducing oxygen available for breathing. Misuse or intentional inhalation abuse may cause death without warning symptoms, due to cardi-ac effects. Rapid evaporation of the product may cause frostbite.

2.4. Unknown acute toxicity (GHS CA)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%
1-Propene, 2,3,3,3-tetrafluoro-	2,3,3,3-Tetrafluoroprop-1-ene / 2,3,3,3-Tetrafluoro-1-propene / HFO-1234yf / 2,3,3,3-Tetrafluoropropene / Refrigerant hydrofluoroolefin HFO-1234yf / 1234yf / HFC-1234yf	CAS-No.: 754-12-1	80 - 100
2,6-Di-tert-butyl-p-cresol	Di-tert-butyl-p-cresol / 2,6-Di-tert-butyl-4-cresol / 3,5-Di-tert-butyl-4-hydroxytoluene / Butylhydroxytoluene / 2,6-Di(dimethylethyl)-4-methylphenol / 2,6-Di-tertiary-butyl-para-cresol / 2,6-Di-tert-butyl-4-hydroxytoluene / Phenol, 2,6-di-tert-butyl-4-methyl- / Ionol / 2,6-Di-tert-butyl-4-methylphenol / DBPC / Butylated hydroxytoluene / 2,6-Bis(1,1-dimethylethyl)-4-methylphenol / BHT / 2,6-Di-tert-butyl-p-cresol	CAS-No.: 128-37-0	1 – 5

Comments : *Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Not expected to be a primary route of exposure. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

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4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: May cause irritation to the respiratory tract. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Symptoms of oxygen deficiency include respiratory difficulty, headache, dizziness, nausea, unconsciousness or death.
Symptoms/effects after skin contact	: May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/effects after ingestion	: None under normal use. May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment	: Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
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SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
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5.2. Unsuitable extinguishing media

Unsuitable extinguishing media	: Do not use water jet.
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5.3. Specific hazards arising from the hazardous product

Fire hazard	: Extremely flammable gas. Products of combustion may include, and are not limited to: oxides of carbon. Hydrogen fluoride.
Explosion hazard	: May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Ruptured cylinders may rocket.

5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so. Move containers away from the fire area if this can be done without risk. Cool closed containers exposed to fire with water spray.
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Use special care to avoid static electric charges. Eliminate every possible source of ignition. Isolate from fire, if possible, without unnecessary risk.
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6.2. Methods and materials for containment and cleaning up

For containment	: Stop leak if safe to do so. Remove all sources of ignition. Wear recommended personal protective equipment.
Methods for cleaning up	: Provide ventilation.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Do not pierce or burn, even after use. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Wash contaminated clothing before reuse. Always wash hands after handling the product.
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable. Hazardous waste due to potential risk of explosion.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Proper grounding procedures to avoid static electricity should be followed.
Storage conditions	: Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Protect containers from physical damage.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2,6-Di-tert-butyl-p-cresol (128-37-0)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Butylated hydroxytoluene
ACGIH OEL TWA	2 mg/m³ (inhalable fraction and vapor)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2024

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Wear suitable gloves. Consult glove manufacturer's product information on material suitability and material thickness.
Eye protection:
Safety glasses or goggles are recommended when using product.
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment.

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Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Gas
Appearance	: Liquefied compressed gas.
Colour	: Colourless Clear
Odour	: Slight ether
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: -152.2 °C (-242 °F)
Freezing point	: No data available
Boiling point	: -29 °C (-20 °F)
Flash point	: No data available
Auto-ignition temperature	: 405 °C (761 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Extremely flammable gas
Vapour pressure	: 5800 hPa (68 °F / 20 °C)
Relative vapour density at 20°C	: 4 (Air = 1)
Relative density	: No data available
Density	: 0.0048 g/cm³ (68 °F / 20 °C)
Solubility	: Water: 0.1982 g/l (75 °F / 24 °C)
Partition coefficient n-octanol/water	: 2 (77 °F / 25 °C)
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: Not oxidizing.
Explosive limits	: No data available

1-Propene, 2,3,3,3-tetrafluoro- (754-12-1)	
Boiling point	-29 °C Atm. press.: 760 mm Hg Decomposition: 'no'
Vapour pressure	≈ 580 kPa Temp.: 20 °C

2,6-Di-tert-butyl-p-cresol (128-37-0)	
Boiling point	265 °C
Flash point	127 °C Atm. press.: 1013 hPa
Auto-ignition temperature	470 °C (dust cloud)
Vapour pressure	0.011 hPa Temp.: 20 °C

9.2. Other information

Minimum ignition energy	: 5 - 10 J
Gas group	: Press. Gas (Liq.)

SECTION 10: Stability and reactivity

Reactivity	: No dangerous reactions known under normal conditions of use.
Chemical stability	: Stable under normal conditions. Extremely flammable gas. Contains gas under pressure; may explode if heated.

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Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Heat. Incompatible materials. Sources of ignition. Direct sunlight.
Incompatible materials	: Acids. Bases. Oxidizing agent. Oxygen. Peroxides. Powdered metals.
Hazardous decomposition products	: May include, and are not limited to: oxides of carbon. Hydrogen fluoride.
Hardening time:	: No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Not classified.

1-Propene, 2,3,3,3-tetrafluoro- (754-12-1)

LC50 inhalation rat	> 405800 ppm/4h
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2,6-Di-tert-butyl-p-cresol (128-37-0)

LD50 oral rat	> 2930 mg/kg (Source: EPA_HP V)
LD50 dermal rat	> 2000 mg/kg (Source: JAPAN_GHS)

Skin corrosion/irritation	: Not classified.
Serious eye damage/irritation	: Not classified.
Respiratory or skin sensitization	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.

2,6-Di-tert-butyl-p-cresol (128-37-0)

NOAEL (chronic, oral, animal/male, 2 years)	25 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:
IARC group	3 - Not classifiable

Reproductive toxicity	: Not classified.
STOT-single exposure	: Not classified.
STOT-repeated exposure	: Not classified.
Aspiration hazard	: Not classified.
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Symptoms of oxygen deficiency include respiratory difficulty, headache, dizziness, nausea, unconsciousness or death.
Symptoms/effects after skin contact	: May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/effects after ingestion	: None under normal use. May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: May cause long-term adverse effects in the aquatic environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified.

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Partition coefficient n-octanol/water	2 (77 °F / 25 °C)
1-Propene, 2,3,3,3-tetrafluoro- (754-12-1)	
LC50 - Fish [1]	> 197 mg/l Test organisms (species): Cyprinus carpio
LC50 - Fish [2]	33 mg/l Test organisms (species): Oryzias latipes
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	65 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	> 2.5 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
NOEC chronic fish	2.7 mg/l Test organisms (species): Cyprinus carpio Duration: '28 d'
NOEC (chronic)	15.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
LOEC (chronic)	> 15.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
2,6-Di-tert-butyl-p-cresol (128-37-0)	
LC50 - Fish [1]	> 0.57 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	0.48 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 0.4 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	> 0.42 mg/l (Species: Desmodesmus subspicatus)
NOEC chronic fish	0.053 mg/l Test organisms (species): Oryzias latipes Duration: '42 d'
NOEC (chronic)	0.023 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
LOEC (chronic)	1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2. Persistence and degradability

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Persistence and degradability	Not established.
1-Propene, 2,3,3,3-tetrafluoro- (754-12-1)	
Persistence and degradability	Rapidly degradable
2,6-Di-tert-butyl-p-cresol (128-37-0)	
Persistence and degradability	Not rapidly degradable

12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
Partition coefficient n-octanol/water	2 (77 °F / 25 °C)
1-Propene, 2,3,3,3-tetrafluoro- (754-12-1)	
Partition coefficient n-octanol/water	2 (at 25 °C (at pH 7)

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2,6-Di-tert-butyl-p-cresol (128-37-0)	
BCF - Fish [1]	230 – 2500
Partition coefficient n-octanol/water	5.1

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified.
Other information : No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Container under pressure. Do not drill or burn even after use.
Additional information : Handle empty containers with care because residual vapours are flammable. Hazardous waste due to potential risk of explosion.

SECTION 14: Transport information

In accordance with TDG

14.1. UN number

UN-No. (TDG) : UN3161

14.2. UN proper shipping name

Proper Shipping Name (TDG) : LIQUEFIED GAS, FLAMMABLE, N.O.S. (1-Propene, 2,3,3,3-tetrafluoro-)

14.3. Transport hazard class(es)

TDG :
Transport hazard class(es) (TDG) : 2.1
Hazard labels (TDG) : 2.1
:



14.4. Packing group

Packing group (TDG) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

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TDG

UN-No. (TDG)

: UN3161

TDG Special Provisions

: 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3).

(2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name:

(a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S;

(b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S;

(c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S;

(d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or

(e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S.

(3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment:

(a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or

(b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS.

ERAP Index

: 3000

Explosive Limit and Limited Quantity Index

: 0.125 L

Excepted quantities (TDG)

: E0

Passenger Carrying Vessel Index

: Forbidden

Passenger Carrying Road Vehicle or Passenger

: Forbidden

Carrying Railway Vehicle Index

Emergency Response Guide (ERG) Number

: 115

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. National regulations

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

15.2. International regulations

No additional information available

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SECTION 16: Other information

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Revision date : 01-15-2025

Other information : None.

Prepared by : Nexreg Compliance Inc.
www.Nexreg.com



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