



# SAFETY DATA SHEET

Part Number: 57-016-100

## ARCAIR PROTEX COOLANT

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

**Trade name** ARCAIR PROTEX COOLANT

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Use** Anti-freeze and pump lubricant for closed loop heat exchanger

#### 1.3 Details of the supplier of the safety data sheet

**Supplier** ARCAIR

Street address 2800 Airport Road  
76207 Denton

Telephone 940-381-1323

#### 1.4 Emergency telephone number

**Emergency phone number** 940-566-2000

**Available outside office hours** Yes

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008, Annex VI

**Classification** Skin irritation, hazard category 3  
Causes eye irritation, Category 2B  
Specific Target Organ Toxicity — Single exposure, hazard category 2  
Acute toxicity, oral, hazard category 4

**Hazard statements** H302, H316, H320, H373

#### 2.2 Label elements

##### GHS labeling of the substance (in accordance with Regulation (EC) No 1272/2008, Annex VI)

**Pictogram**



**Signal word** Danger



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### Hazard statements

H302 Harmful if swallowed.  
H316 Causes mild skin irritation.  
H320 Causes eye irritation.  
H373 May cause damage to organs through prolonged or repeated exposure causes the hazard>.

### Precaution statements

P260 Do not breathe  
P264 Wash thoroughly after handling.  
P270 Do no eat, drink or smoke when using this product.  
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician/ / if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P314 Get medical advice/attention if you feel unwell.  
P330 Rinse mouth.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P501 Dispose of contents/container to

### 2.3 Other hazards

Not applicable

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Chemical name	CAS No. EC No.	Concentration	Classification	R-phrase H-phrase
Ethylene Glycol	107-21-1 -	<100%	- -	- -

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

P314 Get medical advice/attention if you feel unwell.

#### Skin contact

P332 + P313 If skin irritation occurs: Get medical advice/attention.

#### Eye contact

P337 + P313 If eye irritation persists: Get medical advice/attention. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Ingestion

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician/ .?/ if you feel unwell.  
P330 Rinse mouth.

#### Information for doctors

Exposure could lead to ethylene glycol poisoning

### 4.2 Most important symptoms and effects, both acute and delayed



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Not applicable

#### 4.3 Indication of any immediate medical attention and special treatment needed

This product contains ethylene glycol. Ethanol decreases the metabolism of ethylene glycol to toxic metabolites. Ethanol should be administered as soon as possible in cases of severe poisoning since the elimination half-life of ethylene glycol is 3 hours.

## SECTION 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

**Suitable extinguishing media** use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam

#### 5.2 Special hazards arising from the substance or mixture

Alcohols aldehydes carbon dioxide (CO<sub>2</sub>) carbon monoxide Ethers, n.o.s. highly toxic fumes

#### 5.3 Advice for firefighters

**Special protective equipment for fire-fighters** Wear full firefighting turn-out gear (full bunker gear), and respiratory protection (SCBA).

#### Other

**Additional information in case of fire** NFPA classification Combustible Liquid Class IIIB

## SECTION 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Not applicable

#### 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains.

#### 6.3 Methods and material for containment and cleaning up

Keep in suitable and closed containers for disposal. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

#### 6.4 Reference to other sections

Not applicable

## SECTION 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling



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Not applicable

### 7.2 Conditions for safe storage, including any incompatibilities

B09 - Store in a cool well-ventilated dry place. Conditions of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

### 7.3 Specific end use(s)

Not applicable

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### Exposure limits

ACGIH STEL- Ethylene Glycol - C 100 mg/m3

#### National occupational exposure limits

CAS No.	EC No.	Exposure Limit Values ppm / mg/m3		Short term exposure limit ppm / mg/m3		Ceiling Limit Value ppm / mg/m3		Country
107-21-1	203-473-3	20	10	40	104	-	-	BA

### 8.2 Exposure controls

#### Technical precaution measures

Ensure adequate ventilation, especially in confined areas. P285 case of inadequate ventilation wear respiratory protection. Provide adequate ventilation. Provide adequate ventilation.

#### Eye / face protection

Chemical resistant goggles must be worn.

#### Safety gloves

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance, colour

Not applicable

#### Appearance, physical state

Not applicable

#### Auto-ignition temperature

398 ° C

#### Decomposition temperature

Not applicable

#### Explosive properties

Not applicable

#### Flammability (solid, gas)

Not applicable

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<b>Flash point</b>	111 ° C
<b>Initial boiling point and boiling range</b>	Not applicable
<b>Lower explosion limit</b>	3.2% (V) / 15.3% (V) %
<b>Melting point / freezing point</b>	Not applicable
<b>Melting point/range</b>	° C
<b>Odour</b>	Not applicable
<b>Odour treshold</b>	Not applicable
<b>Oxidising properties</b>	Not applicable
<b>Partition coefficient: n-octanol / water</b>	Not applicable
<b>pH value</b>	Not applicable
<b>Relative density</b>	1.114 g/cm <sup>3</sup> @ 68 degrees F / 20 degrees C 9.28 ib/gal @ 68 degrees F / 20 degrees C
<b>Relative vapour density</b>	2.14 AIR=1
<b>Solubility</b>	Not applicable
<b>Solubility in water</b>	Completely soluble
<b>Upper / lower flammability or explosive limits</b>	Not applicable
<b>Upper explosion limit</b>	%
<b>Vapour density</b>	Not applicable
<b>Vapour pressure</b>	0.012 kPa @ 77 degrees F / 25 degrees C
<b>Viscosity</b>	Not applicable
<b>Viscosity, dynamic</b>	17.3 mPa.s @ 25 degrees C

### 9.2 Other information

Not applicable

## SECTION 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No hazards to be especially mentioned.

### 10.2 Chemical stability

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Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Not applicable

### 10.4 Conditions to avoid

Not applicable

### 10.5 Incompatible materials

aluminum strong acids strong alkalis sulphur compounds Strong oxidizers, alkali metals and alkaline earth metals may cause fires or explosions.

### 10.6 Hazardous decomposition products

carbon dioxide (CO<sub>2</sub>) carbon monoxide aldehydes ketones organic acids

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

<b>Acute toxicity</b>	Not applicable
<b>Irritation</b>	Not applicable
<b>Corrosive effects</b>	Not applicable
<b>Sensitisation</b>	Not applicable
<b>Mutagenicity</b>	Not applicable
<b>Carcinogenicity</b>	Not applicable
<b>Repeated dose toxicity</b>	Not applicable
<b>Reproductive toxicity</b>	Not applicable
<b>LD50 Oral</b>	rat 6,140 mg/kg
<b>LD50 Dermal</b>	LD50/dermal/rabbit = 9,530 mg/kg

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

<b>Aquatic</b>	not water endangering
<b>Acute fish toxicity</b>	Ethylene Glycol - 96 H lc 50 Bluegill (Lepomis macrochirus): 27,540 mg/l Method: Static; Mortality 96 h LC 50 Fathead minnow (Pimephales promelas): 8,050 mg/l; Mortality

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### 12.2 Persistence and degradability

Readily biodegradable

### 12.3 Bioaccumulative potential

Ethylene Glycol - Species: Crayfish (Procambarus) Exposure time: 61d Dose: 1,000 mg/l Bioconcentration factor (BCF): 0.27 Method: Flow through

### 12.4 Mobility in soil

Not applicable

### 12.5 Results of PBT and vPvB assessment

Not applicable

### 12.6 Other adverse effects

Not applicable

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Disposal considerations** Destroy by liquid incineration in accordance with applicable regulations.

## SECTION 14. TRANSPORT INFORMATION

### 14.1 UN number

Not applicable

### 14.2 UN proper shipping name

Not applicable

### 14.3 Transport hazard class(es)

Not applicable

### 14.4 Packing group

Not applicable

### 14.5 Environmental hazards

Not applicable

### 14.6 Special precautions for user

Not applicable

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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 Safety, health and environmental regulations/legislation specific for the substance or mixture

**National regulations** EPCRA/SARA Title III 313 Toxic Chemicals

15.2 Chemical safety assessment

Not applicable

## SECTION 16. OTHER INFORMATION

Other

**Additional information** For further information, please also consult our Internet site Information derived from practical experience. 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.