



## Safety Data Sheet

*Revised March 2, 2018*

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier Name**

Winesave (Argon gas)

**Synonyms**

Winesave PRO

**Product Use**

Preservation of opened wine.

**Uses Advised Against**

None.

**Manufacturer's Company Name**

Winesave

**Company Address**

Winesave Home Office, 20 Grand Ridge Way, Sunbury VIC 3429 AUSTRALIA

**Company Identifier**

Australia Business Number (ABN) 17420073710

**Information Contact**

Matthew Joe Fisher

**Email Address**

[service+msds@winesave.com](mailto:service+msds@winesave.com)

**Company Website**

[www.winesave.com](http://www.winesave.com)

**Telephone Numbers**

+61 03 9028 2763 AUS

+1 440 325 4088 USA

+44 016 2237 0398 UK

+64 03 6698 2763 NZ

**Emergency Telephone Numbers**

+61 499 499 883 AUS

+1 614 264 5929 USA

## 2. COMPOSITION / INFORMATION OF INGREDIENTS

**CAS Registry ID Number**

7440-37-1

**Product Code**

UN1006

**Ingredient Name**

Argon

**Concentration**

>99.998%

**European Food Additive**

E938

**CCOHS Chemical Name**

Argon gas

**Empirical and Structural Formula**

${}^{40}_{18}\text{Ar}$

**OSHA IMIS Code Number**

0240

**OSHA PEL**

None.

**OSHA STEL**

None

**ACGIH TLV**

Simple Asphyxiant

**NIOSH RTECS ID Number**

CF2300000

### 3. HAZARD IDENTIFICATION

#### Emergency Overview

Argon gas is non-toxic, colourless, odourless and non-flammable. The primary health hazard is asphyxiation by displacement of oxygen.

#### Route of Entry

Inhalation, skin, and/or eye contact.

#### Inhalation

Simple asphyxiant, primary health concern is the displacement of oxygen in air. Argon is non-toxic at normal temperature and pressure. Can displace oxygen which may lead to oxygen deficiency. Oxygen content of the atmosphere must not be allowed to fall below 18%. Effects of oxygen deficiency are: 12-16%: breathing and pulse rate increased, muscular coordination slightly disturbed; 10-14%: emotional upset, abnormal fatigue, disturbed respiration; 6-10%: nausea and vomiting, collapse or loss of consciousness; below 6%: convulsive movements, possible respiratory collapse and death.

#### Skin Contact

No adverse health effects are expected from mixture as supplied, however sudden or uncontrolled gas release may cause physical injury.

#### Eye Contact

Not irritating to the eye.

#### Ingestion

Non toxic.

#### Chronic Effects

Long term exposure to argon has no known health effects. Chronic oxygen deficiency (below 8% oxygen in air) may affect the heart and the nervous system.

### 4. FIRST AID MEASURES

#### Inhalation

Prompt medical attention is mandatory in all cases of underexposure and overexposure to oxygen, seek medical attention. Keep at rest until recovered. If breathing is difficult, administer oxygen. If not breathing qualified personnel should administer artificial respiration.

#### Ingestion

None required.

#### Skin Contact

None required.

#### Eye Contact

None required.

#### First Aid Facilities

None required.

#### Advice to Doctor

Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

### **Flammability**

Not flammable. May extinguish fire.

### **Extinguishing Media**

Use appropriate media to extinguish source of surrounding fire.

### **Specific Hazards**

Argon gas is non-flammable, but compressed container may rupture when heated.

### **Precautions in Connection with Fire**

Fire fighters should wear self-contained breathing apparatus (SCBA) with operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat exposed containers. Fight fire from safe location.

### **Hazardous Combustion Products**

Not flammable.

### **Flash Point**

Argon gas is not combustible and therefore has no flash point.

### **Ignition Temperature**

Not applicable.

### **Flammable Limits UEL**

Not applicable.

### **Flammable Limits LEL**

Not applicable.

### **Explosive Power**

Closed containers may rupture or explode due to pressure build-up when exposed to extreme heat.

### **Sensitivity to Mechanical Impact**

Avoid impact against container.

## 6. ACCIDENTAL RELEASE MEASURES

If multiple cans are ruptured, increase ventilation. Evacuate all unnecessary personnel. Use self contained breathing apparatus (SCBA) and full protective clothing to minimise exposure. Allow gases to vent safely to atmosphere, preferably in well ventilated, remote location. Monitor oxygen concentration in confined spaces. Wear air supplied mask.

## 7. HANDLING AND STORAGE

### Handling

Simple asphyxiant. Primary health concern is the displacement of oxygen in air. Maintain oxygen concentration above 18% by volume.

### Storage

Protect containers against physical damage. Store in a cool, dry, well-ventilated place, low fire risk area. Protect from extremes of temperature and weather. Do not allow any part of a canister to be exposed above 55° C. Storage areas should be kept clean and free from flammable and combustible materials.

Refer to commonwealth, state, territory legislation for requirements, which affect compressed gas storage and transport.

### Packaging

Aerosol cans. Black.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Limit of Material

Simple asphyxiant.

### National Exposure Standards

Not applicable.

### Respiratory Protection

Not required.

### Eye Protection

Not required.

### Hand Protection

Not required.

### Footwear

Not required.

### Body Protection

Not required.

### Biological Limit Values

Not applicable.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical State

Gas.

### Appearance & Odour

Colourless, tasteless, odourless gas.

### Boiling Point

-189.4°C

**Solubility in Water**

Slight - 0.054m<sup>3</sup>/kg

**PH Value**

Not Applicable to gases.

**Vapour Pressure**

Not applicable.

**Density**

Relative Density=1.4.Density of gas: 1.691kg/m<sup>3</sup>

**Flash Point**

Not applicable

**Flammability**

Not combustible.

**Ignition Temperature**

Not applicable.

**Flammable Limits UEL**

Not applicable.

**Molecular Weight**

39.948

**Other Information**

Critical temperature: -122.29°C

## 10. STABILITY AND REACTIVITY

**Stability**

Stable under normal conditions of storage and handling.

**Hazardous Polymerization**

Will not occur.

**Incompatible Substances**

None - argon is an inert gas.

**Hazardous Decomposition Product**

None.

**Conditions to Avoid**

Extremes of temperature and direct sunlight.

## 11. TOXICOLOGICAL INFORMATION

### Lethal Dose LD50 of Product, Species and Route

Not applicable.

### Lethal Concentration LC50 of Product, Species and Route

Not applicable.

### Inhalation

Simple asphyxiant. Primary health concern is the displacement of oxygen in air. Argon is non-toxic at normal temperature and pressure. Can displace oxygen which may lead to oxygen deficiency. Oxygen content of the atmosphere must not be allowed to fall below 8%.effects of oxygen deficiency are:12-16%:breathing and pulse rate increased, muscular coordination slightly disturbed; 10-14%: emotional upset, abnormal fatigue, disturbed respiration; 6-10%: nausea and vomiting, collapse or loss of consciousness; below 6%: convulsive movements, possible respiratory collapse and death.

### Ingestion

Not applicable to gases.

### Skin

No adverse health effects are expected from mixture as supplied, however sudden or uncontrolled gas release may cause physical injury.

### Eye

Not irritating to the eye.

### Chronic Effects

Long term exposure to argon has no known health effects. Chronic oxygen deficiency (below 18% in air) may affect the heart and the nervous system.

## 12. ECOLOGICAL INFORMATION

### Environment Protection

Not applicable.

### Mobility

Not applicable.

### Persistence/Degradability

Not applicable.

### Ecotoxicity

Not applicable

## 13. DISPOSAL CONSIDERATIONS

### Waste Disposal

Gas will dissipate in air. Dispose of waste according to applicable local and national regulations.

## 14. TRANSPORT INFORMATION

### DOT / TDG Classification

DOT Class 2.2 - non-flammable, non toxic gasses.

### United Nations UN Number

1006 Argon, compressed

### Proper Shipping Name

ARGON COMPRESSED

### Dangerous Good DG CLASS

2.2 - non-flammable gas

### Hazchem Code

2(T)

### HS Code

HS 2804(21)

### Packing Method

Not applicable.

### Packing Group

Not assigned.

### EPG Number

2C1

### IERG Number

None.

### Miscellaneous

Observe requirements of The Australian Code for the Transport of Dangerous Goods by Road and Rail.

Observe the requirements of State Dangerous Goods (Storage and Handling) Regulations. Class 2.2 dangerous goods are incompatible in a placard load with any of the following: - Class 1, Explosives - Class 4.2, Spontaneously Combustible substances - Class 5.2, Organic Peroxides



## 15. REGULATORY INFORMATION

### NOHSC Classification

Not classified as hazardous according to criteria of National Occupational Health and Safety Commission (NOHSC), Australia.

### SUSDP Classification

Not classified as a scheduled poison according to the standard for the uniform Scheduling of Drugs and Poisons (SUSDP).

### WHMIS Classification

A - Compressed gas  
Gases under pressure - compressed gas  
Simple asphyxiants - category 1





**Risk Phrase**

None.

**Poisons Schedule**

None scheduled.

**Packaging & Labelling**

Aerosol Cans. Black.

**16. OTHER INFORMATION****Indication of Changes**

Revised 2 March 2018

**Abbreviations and Acronyms**

ACGIH = American Conference of Governmental Industrial Hygienists

Ar = Argon

CAS = Chemical Abstract Service

DOT = United States Department of Transportation

HS - Harmonized System Code

NOHSC = National Occupational Health and Safety Commission

PEL = Permissible Exposure Limit - the same value as a TLV, except it is enforceable by OSHA.

RTECS = Registry of Toxic Effects of Chemical Substances

SUSDP = Scheduling of Drugs and Poisons

TLV = Threshold Limit Value

TDG = Transportation of Dangerous Goods

WHMIS = Canadian Workplace Hazardous Materials Information System

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