

# Material Safety Data Sheet



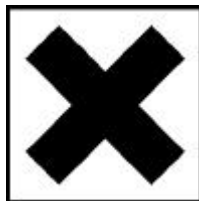
All Seasons Cooling Liquid

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Date : 26/06/2003

Replace : / /



Xn - Harmful

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Type of product and use: All seasons cooling liquid. Protects against freezing, rust, corrosion and scale

Company identification: WYNN'S BELGIUM N.V.  
Industriepark West 46  
B-9100 Sint-Niklaas  
tel: INT-32-3-766.60.20  
fax: INT-32-3-778.16.56

Emergency phone Nr.: BIG 32.(0)14/58.45.45

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition: Mixture of glycol, water and inhibitors.

Hazardous component(s): ethanediol; ethylene glycol (CAS 107-21-1 / EINECS 203-473-3)  
wt%: >50 Symb: Xn R: 22

## 3. HAZARDS IDENTIFICATION

Important hazards-fire: Combustible

Important hazards-toxicity: May cause loss of consciousness or other central nervous system effects.  
May cause irritation.  
Slightly irritant to eyes  
Causes headache, nausea, dizziness.  
Harmful if swallowed.  
Irritating to eyes, respiratory system and skin.  
Dermatitis may result from prolonged or repeated exposure.

Important hazards-chemical reactions: No data available.

## 4. FIRST AID MEASURES

Inhalation: Remove victim to fresh air and allow to rest.  
Seek medical advice.

Skin contact: Remove contaminated clothing.  
Wash thoroughly with soap and water.  
If irritation persists, seek medical advice.  
Launder contaminated clothing before reuse.

Eye contact: Continue rinsing for at least 10 minutes.  
If irritation persists, seek medical advice.

Ingestion: Rinse mouth.  
Immediately give 1-2 glasses of water, if victim is fully conscious.  
Induce vomiting, if victim is fully conscious.

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Seek medical attention.

## 5. FIRE-FIGHTING MEASURES

Extinguishing media:

- Suitable:

Carbon dioxide, dry chemicals, foam (AFFF/ATC), water spray (fog).

- Not to be used:

None.

Firefighting instructions:

Use water spray to cool fire exposed surfaces and to protect personnel.

Special exposure hazards:

Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO).

Special protective equipment for fire fighters:

Full protective clothing and self-containing breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Personal Protective Equipment must be worn, see section 8 (Personal Protection).

Gloves.

Safety goggles/visor.

Appropriate protective clothing.

Methods for cleaning up:

- On soil:

Recover small spills with a suitable absorbent. Shovel into suitable and closed container for disposal.

Contain spilled liquid with sand or earth.

Prevent product from entering drains / surface water / ground water.

Clean contaminated surfaces with an excess of water.

## 7. HANDLING AND STORAGE

Handling:

Handle in accordance with good industrial hygiene and safety procedures.

Ensure good ventilation.

Avoid proximity or contact with hot surfaces, flames or sparks.

When using, do not eat, drink or smoke.

Keep containers closed when not in use.

Storage:

Handling temperature: ambient.

Packaging:

- General:

Keep preferably in the original packaging; if not, copy all indications of the labelling on the new packaging.

DO NOT reuse empty containers without commercial cleaning or reconditioning.

- Suitable:

Stainless steel,

Carbon Steel,

Plastics.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Recommended engineering controls:

The use of local exhaust ventilation is recommended to control process emissions near the source.

Personal protection:

- Respiratory protection:

In case of insufficient ventilation wear suitable respiratory equipment.

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- Skin and hand protection: Handle in accordance with good industrial hygiene and safety procedures.  
Appropriate protective clothing and gloves  
Nitrile,  
Neoprene,  
polyvinylchloride (PVC),
- Eye protection: Safety goggles/visor.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

These are indicative values only. Please refer also to the product specification sheet.

Appearance:	Liquid. Blue.
Odour:	Almost odourless.
pH :	7,7
Boiling point:	± 121 °C
Melting point:	-45 °C
Flash point:	>121 °C
Auto-ignition temperature:	Not yet determined.
Vapour pressure at 20°C:	<25 hPa
Solubility in water:	Completely soluble
refractive index at 20°C (ASTM D-1747):	1.4001
Density at 15°C:	1098 kg/m <sup>3</sup>

### 10. STABILITY AND REACTIVITY

Stability:	Stable in normal conditions of use.
Conditions to avoid:	Avoid contact with strong bases Avoid contact with strong acids and oxidizers.
Hazardous decomposition products:	Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO).

### 11. TOXICOLOGICAL INFORMATION

Oral LD50 (rat):	ethanediol; ethylene glycol (CAS 107-21-1 / EINECS 203-473-3) 4.700 mg/kg
Dermal LD50 (Rabbit):	ethanediol; ethylene glycol (CAS 107-21-1 / EINECS 203-473-3) 9.530 mg/kg
Inhalation LC50 (Rat/4h):	ethanediol; ethylene glycol (CAS 107-21-1 / EINECS 203-473-3) 10.870 mg/m <sup>3</sup>
Skin contact:	Redness, a dry skin Low order of toxicity
Eye contact:	Redness Slightly irritant.

### 12. ECOLOGICAL INFORMATION

Mobility:	This substance is water soluble and is expected to remain primarily in water.
Degradability:	The used tensio-actives are more than 90 % biodegradable according to the OECD Confirmatory Test. This substance is expected to be removed in a wastewater treatment facility.

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Ecotoxicity and bioaccumulation:	Not toxic to aquatic organisms. Long term adverse effects to aquatic organisms are not expected.
WGK class (Germany):	Not established.

### 13. DISPOSAL CONSIDERATIONS

Disposal of product:	This product is not suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. Dispose of in a safe manner, in accordance with local regulations.
Disposal of packaging:	Dispose of in a safe manner, in accordance with local regulations.

### 14. TRANSPORT INFORMATION

Not classified under this legislation.

### 15. REGULATORY INFORMATION

EEC labelling information:	Classification and labelling according to the directives 67/548/EEG and 1999/45/EG.
- Symbol(s):	Harmful: Xn.
- Contains:	ethanediol; ethylene glycol (CAS 107-21-1 / EINECS 203-473-3)
- R Phrase(s):	R 22: Harmful if swallowed.
- S Phrase(s):	S (2): Keep out of reach of children. S (46): If swallowed seek medical advice immediately and show this container or label.

### 16. OTHER INFORMATION

Sources of key data used:	Raw material suppliers' data sheets were used as key data sources in the preparation of this safety data sheet.
Nature of revision:	Adaption to new regulation: 9,16
Text of R phrases mentioned in Section 2	R 22: Harmful if swallowed.
This safety data sheet has been made in accordance with the directives 91/155/EEG, 93/112/EEG and 2001/58/EG.	
It completes the technical directions for use, but does not replace it.	
The data mentioned on these documents are to our knowledge correct on the date of publication and are provided on the assumption that the product will be used as indicated by the manufacturer/supplier. The indication of these safety data, without being considered as complete, helps the user to fulfil his obligations with regard to dangerous substances. The user is obliged to evaluate the product and use it in a safe way in compliance with the effective laws and stipulations. The user has to make sure that all regulations as to human and environmental protection during handling, storage and use of the products are observed.	