



WARD-SAFE Packing Fluid and Holding Solution

SAFETY DATA SHEET

ACCORDING TO US CFR 1910.1200 & WHMIS Classification

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

1.1 Product identifier	
Product Name	WARD-SAFE Packing Fluid and Holding Solution.
Synonym(s)	Borealene II.
CAS No.	Mixture.
EINECS No.	Mixture.
REACH Registration No.	None assigned.
1.2 Recommended use of the chemical and restrictions on use	
Identified use(s)	Proprietary holding fluid for preserved materials.
Uses advised against	None known.
1.3 Details of the supplier of the Safety Data Sheet	
Company Identification	Ward's Science 5100 West Henrietta Road Post Office Box 92912 Rochester, New York 14692-9012
Telephone	585-359-2502
E-Mail (competent person)	sciencehelp@vwr.com
1.4 Emergency telephone number	
CHEMTREC	1-800-424-9300

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
2.1.1 US CFR 1910.1200/ Canada WHMIS Classification	Not classified as dangerous for supply/use.
2.2 Label elements	
Product Name	WARD-SAFE Packing Fluid and Holding Solution.
Hazard pictogram(s)	None.
Signal word(s)	None.
Hazard statement(s)	None.
Precautionary statement(s)	None.
2.3 Other hazards	None.
2.4 Additional Information	None.



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3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Hazardous Ingredient(s)	CAS No.	%W/W
Methanol	67-56-1	1 – 5%
Propane-1,2-diol	57-55-6	1 – 5%

3.2 Additional Information

Variable traces of original specimen fixatives such as Ethane-1,2-diol and Formaldehyde may have leached from the specimens into this holding fluid. The amount and chemicals present are dependent on the type of specimen.

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation	Move person to fresh air.
Skin Contact	Wash affected skin with plenty of water.
Eye Contact	Flush eyes with water for at least 15 minutes.
Ingestion	Wash out mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

5. SECTION 5: FIRE-FIGHTING MEASURES

Non-flammable.

5.1 Extinguishing Media

Suitable Extinguishing Media	As appropriate for surrounding fire.
Unsuitable Extinguishing Media	None known.

5.2 Special hazards arising from the substance or mixture

Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide.

5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Wear protective gloves.
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6.2 Environmental precautions

Prevent liquid entering watercourses and sewers.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal.

6.4 Reference to other sections

See Also Section 8, 13

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7. SECTION 7: HANDLING AND STORAGE




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|-----|---|---|
| 7.1 | Precautions for safe handling | Provide adequate ventilation. Wear protective gloves. |
| 7.2 | Conditions for safe storage, including any incompatibilities | |
| | Storage Temperature | Ambient. |
| | Storage Life | Stable under normal conditions. |
| | Incompatible materials | Strong oxidizing agents. |

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters
8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Methanol	67-56-1	200	260	-	-	PEL (OSHA)
		200	260	250	325	NIOSH
		200	-	250	-	Canada (Ontario)
		200	262	250	328	Canada (Québec)
Propane-1,2-diol	57-55-6	-	10	-	-	Canada (Ontario)

Source: NIOSH = National Institute of Occupational Safety & Health
OSHA = Occupational Safety and Health Administration

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|-----|---|---|
| 8.2 | Appropriate engineering controls | Provide adequate ventilation. |
| 8.3 | Individual protection measures, such as personal protective equipment (PPE) | |
| | Eye/face protection | Not normally required. Wear protective eye glasses for protection against liquid splashes. |
| |  | |
| | Skin protection (Hand protection/ Other) | Not normally required. Wear suitable protective clothing and gloves. |
| |  | |
| | Respiratory protection | Normally no personal respiratory protection is necessary. Wear suitable respiratory protective equipment. |
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| | Thermal hazards | Not applicable. |

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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|-----|--|-------------------------------|
| 9.1 | Information on basic physical and chemical properties | |
| | Appearance | Liquid. |
| | Color | Clear, Pale yellow. |
| | Odor | Alcohol-like, Banana, Almond. |
| | Odor Threshold | Not available. |
| | pH | Not available. |
| | Melting Point/Freezing Point | Not available. |
| | Initial boiling point and boiling range | >100°C/ >212°F |
| | Flash point | Not available. |



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Evaporation rate	Not available.
Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or explosive limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	<1.0
Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
9.2 Other information	
VOC Content	4.81%

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Stable under normal conditions.
10.4 Conditions to avoid	None known.
10.5 Incompatible materials	Strong oxidizing agents.
10.6 Hazardous Decomposition Product(s)	Carbon monoxide, Carbon dioxide.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Mixtures	
Acute toxicity	Low acute toxicity.
Irritation	Non-irritant.
Corrosivity	Not classified.
Sensitization	It is not a skin sensitizer.
Repeated dose toxicity	None anticipated.
Carcinogenicity	No evidence of carcinogenicity.
Mutagenicity	There is no evidence of mutagenic potential.
Toxicity for reproduction	None anticipated.
11.2 Other information	None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Low toxicity to aquatic organisms.
12.2 Persistence and degradability	No information available.
12.3 Bioaccumulative potential	No information available.
12.4 Mobility in soil	Soluble in water. The product is predicted to have high mobility in soil.
12.5 Other adverse effects	None known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Dispose of this container to hazardous or special waste collection point.
13.2 Additional Information	Disposal should be in accordance with local, state or national legislation.
US RCRA Hazard Class	Listed in: Methanol: U154



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14. SECTION 14: TRANSPORT INFORMATION

US D.O.T. and Canadian TDG Classification

Not classified as dangerous for transport.

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.
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

15. SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1	USA	
15.1.1.1	OSHA	
	Toxic and hazardous substances (29 CFR 1910; Subpart Z)	All chemicals are not listed.
	National emission standards for hazardous air pollutants (40 CFR 61.01)	All chemicals are not listed.
15.1.1.2	Title III Consolidated List of Lists	Listed.
	Methanol	
	CERCLA RQ	5000 lbs
	Sec 313	313
15.1.1.3	OSPAR List of Chemicals for Priority Action	All chemicals are not listed.
15.1.1.4	State Right to Know Lists	
	Methanol (CAS No.: 67-56-1)	California, New Jersey, Pennsylvania, Massachusetts, Minnesota.
	Propane-1,2-diol (CAS No.: 57-55-6)	Pennsylvania, Minnesota.
15.1.1.5	TSCA (Toxic Substance Control Act)	All chemicals listed.
15.1.1.6	Proposition 65 (California)	Listed in: Methanol (CAS No.: 67-56-1)
15.1.1.7	CAA 602 - Ozone Depleting Substances (ODS)	All chemicals are not listed.
15.1.1.8	International Agency for Research on Cancer	All chemicals are not listed.
15.1.1.8	National Toxicology Program	All chemicals are not listed.
15.1.2	Canada	
	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the Material Safety Data Sheet contains all of the information required by the Controlled Products Regulations.	
15.1.2.1	WHMIS – Ingredient Disclosure List	All chemicals listed.
15.1.2.2	Domestic Substances List (DSL)	All chemicals listed.



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- 15.1.2.3 List of all Challenge Substances All chemicals are not listed.
- 15.1.2.4 Priority Substances List All chemicals are not listed.
- 15.1.2.5 Toxic Substances List All chemicals are not listed.
- 15.1.2.6 National Pollutant Release Inventory (NPRI) Substances List Listed in: Methanol (CAS No.: 67-56-1)

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

USA

NFPA		HMIS	
Health	0	Health	0
Fire	0	Flammability	0
Instability	0	Physical hazards	0

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
STOT	Specific Target Organ Toxicity
IARC	International Agency for Research on Cancer
OSHA	Occupational Safety and Health Administration
NIOSH	National Institute of Occupational Safety and Health
NFPA	National Fire Protection Association
HMIS	Hazardous Material Information System

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