

CRYSTALFIN® CROSSLINKER

Supersedes: 10-25-2000

### 1. Identification

CrystalFin<sup>®</sup> Crosslinker

Other means of identification SDS number Synonyms Recommended use Recommended restrictions

09 1252 Not available. Not available.

### Manufacturer/Importer/Supplier/Distributor information

General Assistance E-Mail Contact Person Emergency Telephone

Manufacturer/Supplier

Daly's Wood Finishing Products 4522 S 133<sup>rd</sup> Street Tukwila , WA 98168 (206) 244-8844, toll free: (800) 727-9694 Not available. Not available. Chemtrec: (800) 424-9300

### 2. Hazard(s) Identification

 Physical hazards
 Flammable liquids
 Category 4

 Health hazards
 Serious eye damage/eye irritation
 Category 1

 Sensitization, Skin
 Category 1

 Germ cell mutagenicity
 Category 2

 Specific target organ toxicity, repeated exposure
 Category 2

 Label elements
 Image: Category 2

Signal word

**Hazard statement** 

Precautionary statement Prevention Danger

Combustible liquid. Causes serious eye damage. May cause an allergic skin reaction. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the work place. Obtain special instructions before use. Do not



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Response	In case of fire: Use CO
-	water fog for extinction
	for several minutes. F
	to do. Continue rinsin
	doctor/physician IF O
	water. IF SKIN irritatio

handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. In case of fire: Use CO<sub>2</sub>, dry chemical, alcohol-resistant foam, water fog for extinction. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician IF ON SKIN: wash with plenty of soap and water. IF SKIN irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. Store locked up. Store in a well-ventilated place. Dispose of contents/container in accordance with local/regional/national/international regulations. None known.

Storage Disposal

Hazard(s) not otherwise classified (HNOC)

### 3. Composition/information on ingredients

### Mixtures

Chemical name	CAS number	<u>%</u>
Dipropylene glycol monomethyl ether	34590-94-8	73
1-Azirdinepropanoic acid, 2 methyl- 2- ethyl-2[3-(2-methyl-1aziridinyl)- 1- oxopropoxy-methyl]-1, 3- propandiyl ester	64742-47-8	27

### 4. First-aid measures

Inhalation	Move individual to fresh air. If breathing has stopped, apply artificial respiration, get medical attention immediately.
Skin contact	Wash area with soap and water. Remove contaminated clothing.
Eye contact	Wash with clean water for at least fifteen minutes; get medical attention.
Ingestion	DO NOT INDUCE VOMITING. Give water or milk to drink; get medical attention.
Most important symptoms/effects, acute and delayed	May cause redness, serious irritation of eye. Inhalation may cause anesthetic or narcotic effects. Ingestion may cause nausea, gastrointestinal irritation, or vomiting. When comes in contact with skin may cause irritation; prolonged contact may cause sensitization. Sensitizer for allergic persons.



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Indication of immediate medical attention and special treatment needed

**General information** 

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. In case of shortness of breath, give oxygen. Keep victim warm.

If exposed or concerned: get medical attention/advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

### 5. Fire-fighting measures

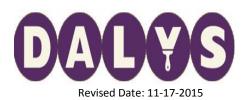
Suitable extinguishing mediaWater fog, alcohol-resistant foam, CO2, dry chemical.Unsuitable extinguishing mediaNone known.Specific hazards arising from the<br/>chemicalFlammable vapors released when heated above the flash point.Special protective equipment and<br/>Special firefighting proceduresFight as a volatile fire; do not enter enclosed or confined fire<br/>spaces without proper protective equipment. This may include<br/>self-contained breathing apparatus.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Environmental Precautions	Avoid discharge into drains, water courses or onto the ground.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Provide ventilation. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Stop the flow of material, if this is without risk. Soak up fill with absorbent material. Let dry and dispose off. Rags and absorbent material should be immersed in water. For waste disposal, see section 13 of the SDS.

#### 7. Handling and storage

Precautions for safe handling Read and observe all precautions on label. Use only with



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	adequate ventilation. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Wear appropriate personal protective equipment. Observe good industrial hygiene
	practices.
Conditions for safe storage	KEEP OUT OF REACH OF CHILDREN. Store locked up. Store in
	original container; keep tightly closed and appropriately
	labeled. Do not reuse container for other purposes. Store away
	from high temperature, sparks, or open flame.
Incompatible materials	Acidics, anhydrides, strong oxidizers.

### 8. Exposure controls/personal protection

### **Occupational exposure limits**

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		
Components	Туре	Value
Dipropylene glycol monomethyl ether	PEL(TWA)	100 ppm (600 mg/m <sup>3</sup> ) [skin]
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)		

Components	Туре
Dipropylene glycol monomethyl	TWA
ether	

### **Value** 100 ppm (600 mg/m<sup>3</sup>)

### US. OSHA Table Z-2 (29 CFR 1910.1000)

None of the components in this product is listed.

### US. OSHA Table Z-3 (29 CFR 1910.1000)

None of the components in this product is listed.

US. ACGIH Threshold Limit Values Components Dipropylene glycol monomethyl ether	<b>Type</b> TLV(TWA) TLV(ST)	<b>Value</b> 100 ppm 150 ppm	
US. NIOSH: Pocket Guide to Chemical Hazards			
Components	Туре	Value	
Dipropylene glycol monomethyl	REL(TWA)	100 ppm (600 mg/m³)	
ether	REL(ST)	150 ppm (900 mg/m <sup>3</sup> ) [skin]	
Appropriate engineering controls	Provide adequate general and local exhaust ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.		



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Individual protection measures, s Eye/face protection Skin protection	such as personal protective equipment Goggles or face shield.
Hand protection Other	Wear rubber or plastic gloves. Wear impervious protective clothing. Eyewash station should be available.
Respiratory protection	None required with normal use. If spraying, wear a NIOSH approved respirator for organic vapors and ensure workers are trained in proper use. Provide adequate ventilation to keep vapor concentration below TLV.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Keep work area clean and free from spills and leaks. Wash hands before breaks and immediately after handling the product. Provide eyewash station and safety shower. Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and chemical properties

Appearance	Yellow liquid.
Physical state	Liquid.
Form	Liquid.
Color	Yellow.
Odor	Characteristic glycol ether odor.
Odor threshold	Not available.
pH	Not available.
Melting point	Not available.
Freezing point	Not available.
Initial boiling point and boiling range	363 °F
Flash point	175 °F
-	75 %
% Volatile by Volume	73 ‰ <1
Evaporation rate (BuOAc=1)	· <b>=</b>
Maximum Volatile Organic	715 grams/liter
Compound (V.O.C.)	
Flammability (solid, liquid, gas)	Combustible liquid.
Upper/lower flammability or explosive	e limits
Flammability limit – lower (%)	Not available.
Flammability limit – upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure (mm Hg)	0.55 mm Hg
Vapor density (Air=1)	>1
Relative density (Specific gravity)	0.98
Solubility(ies)	



### CRYSTALFIN® CROSSLINKER

Solubility (water) Solubility (other) Partition coefficient (noctanol/water) Auto-ignition temperature Decomposition temperature Viscosity Slightly soluble in water. Soluble in most petroleum solvents. Not available.

Not available. Not available. Not available.

### 10. Stability and reactivity

Reactivity	Hazardous reactions will not occur under normal conditions.
Chemical stability	Stable under recommended handling and storage conditions.
Possibility of hazardous reactions	May occur if mixed with acidic materials.
Conditions to avoid	Ignition sources, oxidation.
Incompatible materials	Acidics, anhydrides, strong oxidizers.
Hazardous decomposition Products	Carbon monoxide, carbon dioxide, nitrous oxides.

### 11. Toxicological information

### Information on likely routes of exposure

information on likely routes of exposi	lie			
Ingestion	May cause nausea, gastrointestinal irritation or vomiting.			
Inhalation	May cause anesthetic or narcotic effects.			
Skin contact	May cause irritation; prolonged contact may cause			
	sensitization.			
Eye contact	Corrosive. May cause redness and irritation.			
Symptoms related to the physical,	May cause redness, serious irritation of eye. Inhalation may			
chemical and toxicological	cause anesthetic or narcotic effect. Ingestion may cause nausea,			
characteristics	gastrointestinal irritation, or vomiting. When comes in contact			
	with skin may cause irritation; prolonged contact may cause			
	sensitization.			
Delayed and immediate effects and	No adverse long term affects are known, when used in			
also chronic effects from short- and	accordance with safe handling information (see section 8).			
long-term exposure				
Numerical measures of toxicity				
Components	Test	Species	Test Results	
Dipropylene glycol monomethyl	Oral LD <sub>50</sub>	Rat	>5000 mg/kg	
ether (CAS 64265-57-2)	Dermal LD <sub>50</sub>	Rabbit	9510 mg/kg	
	Inhalation LC <sub>50</sub>	Rat	> 3.35 mg/l, 7h	
1-Azirdinepropanoic acid, 2-methyl-	Oral LD <sub>50</sub>	Rat	2000 mg/kg	
2-ethyl-2[3-(2-methyl-1aziridinyl)-1-		Ναι	2000 119/16	
oxopropoxy-methyl]-1, 3 propandiyl				
ester (CAS 34590-94-8)				



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Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Respiratory sensitization Skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity single exposure Specific target organ toxicity repeated exposure Aspiration hazard No data available. Causes serious eye damage. No data available. May cause an allergic skin reaction. Suspected of causing genetic defects. Not listed as a carcinogen by the NTP, IARC, or OSHA.

No data available. No data available.

May cause damage to organs through prolonged or repeated exposure. No data available.

### 12. Ecological information

Numerical measures of toxicit Components Dipropylene glycol monomethyl ether (CAS	<b>Y</b> Test Fish LC <sub>50</sub>	<b>Species</b> Guppy (Poecilia reticulata)	<b>Test Results</b> >1000 mg/l, 96h	
64265-57-2)	Crustacea $LC_{50}$	(Poecina reticulata) Water flea (Daphnia magna)	1919 mg/l, 48h	
1-Azirdinepropanoic acid, 2- methyl-2-ethyl-2[3-(2-	Fish LC <sub>50</sub>	Common carp (Cyprinus carpio)	>100 mg/l, 96h	
methyl-1aziridinyl)-1- oxopropoxy-methyl]-1, 3 propandiyl ester (CAS 34590-94-8)	Crustacea EC <sub>50</sub>	Water flea (Daphnia magna)	81 mg/l, 48h	
Persistence and degradability Bioaccumulative potential Mobility in soil Other adverse effects	No information available. No information available. No information available. No information available.			
13. Disposal considerations				
Disposal instructions	regulation sewers/wa or ditches	Dispose in accordance with all applicable federal, state and local regulations. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container; dispose of this material and its container in a safe way.		
Contaminated packaging	Since emp label warn	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not reuse container for other purposes.		



### **SAFETY DATA SHEET** CRYSTALFIN<sup>®</sup> CROSSLINKER

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### 14. Transport information

NOTE: DOT Ground - "Non-bulk shipme DOT	nts may be non-regulated per 49CFR 173.150(f)(2)"
UN/ID No	NA1993
Proper Shipping Name	Combustible Liquid, N.O.S (Glycol Ether)
Hazard Class	Comb Liq
Packing Group	III
In accordance with IMDG	Not regulated for transport.
In accordance with IATA	Not regulated for transport.

15. Regulatory information

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US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.				
	All components are on the U.S. EPA TSCA Inventory List.				
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None of the chemicals in this product is regulated. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Dipropylene glycol monomethyl ether Listed					
(CAS 34590-94-8)					
CERCLA Hazardous Substance List (4	0 CFR 302.4)				
None of the chemicals in	this product is listed.				
Superfund Amendments and Reauth	norization Act of 1986	(SARA)			
Hazard categories	Immediate Hazard	-	Yes		
	Delayed Hazard	-	Yes		
	Fire Hazard	-	Yes		
	Pressure Hazard	-	No		
	Reactivity Hazard	-	No		
SARA 302/304 Extremely hazardous					
None of the chemicals	in this product is listed				
SARA 311/312 Hazardous chemical		Yes			
SARA 313 (TRI reporting)					
None of the chemicals in	h this product is listed.				
Other federal regulations					
Clean Air Act (CAA) Section 112 I	Hazardous Air Pollutai	nts (HAD	c) List		
None of the chemicals in this pro					
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)					
None of the chemicals in this product is listed.					
Safe Drinking Water Act (SDWA)					
None of the chemicals in this product is listed.					
None of the chemicals in this pro					



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#### **US State regulations**

### US. New Jersey Worker and Community Right-to-Know Act

Dipropylene glycol monomethyl ether (CAS 34590-94-8)

US. Pennsylvania Worker and Community Right-to-Know Law

Dipropylene glycol monomethyl ether (CAS 34590-94-8)

### **US. California Proposition 65**

### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT):

None of the chemicals in this product is listed.

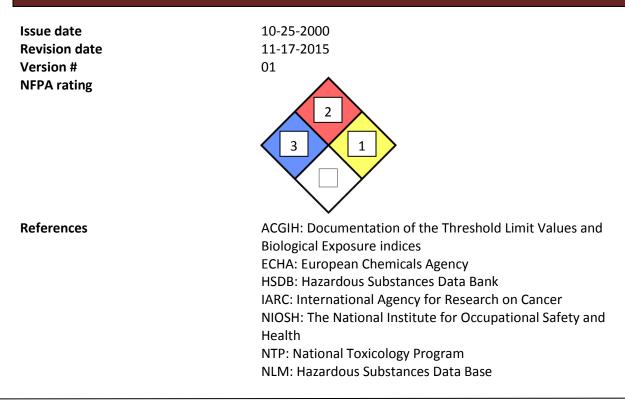
### **International Inventories**

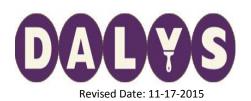
Inventory name	On inventory (yes/no) <sup>*</sup>
Domestic Substances List (DSL)	Yes
Non- Domestic Substances List (NDSL)	No
European Inventory of Existing Commercial	Yes
Chemical Substances (EINECS)	
European List of Notified Chemical	Yes
Substances (ELINCS)	
Toxic Substances Control Act (TSCA)	Yes
Inventory	
	Domestic Substances List (DSL) Non- Domestic Substances List (NDSL) European Inventory of Existing Commercial Chemical Substances (EINECS) European List of Notified Chemical Substances (ELINCS) Toxic Substances Control Act (TSCA)

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the

governing country(s).

### 16. Other information, including date of preparation or last revision





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OECD : Organization for Economic Co-operation and Development OSHA: Occupational Safety and Health Administration

### Disclaimer

The information, recommendations, and suggestions presented in this SDS are based upon test results and data believed to be reliable. The end user of the product has the responsibility for evaluating the adequacy of the data under the conditions of use, determining the safety, toxicity and suitability of the product under these conditions, and obtaining additional or clarifying information where uncertainty exists. No guarantee expressed or implied is made as to the effects of such use, the results to be obtained, or the safety and toxicity of the product in any specific application. Furthermore, the information herein is not represented as absolutely complete, since it is not practicable to provide all the scientific and study information in the format of this document, plus additional information may be necessary under exceptional conditions of use, or because of applicable laws or government regulations. All materials may present unknown hazards and should be used with caution.