



SAFETY DATA SHEET

CRYSTALFIN® FLOOR FINISH


Revised Date: 12-17-2015

Supersedes: 10-25-2000

1. Identification

Product identifier	CrystalFin® Floor Finish	
Other means of identification		
SDS number	15	
Synonyms	1250-1251	
Recommended use	Not available.	
Recommended restrictions	Not available.	
Manufacturer/Importer/Supplier/Distributor information		
Manufacturer/Supplier	Daly's Wood Finishing Products 4522 S 133 rd Street Tukwila , WA 98168	
General Assistance	(206) 244-8844, toll free: (800) 727-9694	
E-Mail	Not available.	
Contact Person	Not available.	
Emergency Telephone	Chemtrec (800)424-9300	

2. Hazard(s) Identification

Physical hazards	Not classified	
Health hazards	Reproductive toxicity	Category 1B
Label elements		
Signal word	Danger	
Unknown toxicity	87.5% of the mixture consists of ingredient(s) of unknown toxicity.	
Hazard statement	May damage fertility or the unborn child.	
Precautionary statement		
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have read and understood. Wear protective gloves/protective clothing/eye protection/face protection.	
Response	IF exposed or concerned: Get medical advice/attention.	
Storage	Store locked up.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Hazard(s) not otherwise classified	None known.	



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3. Composition/information on ingredients

Mixture

<u>Chemical name</u>	<u>CAS number</u>	<u>%</u>
Dipropylene glycol monomethyl ether	34590-94-8	6.5
N-methyl pyrrolidone	872-50-4	2-3
Propylene glycol monobutyl ether	5131-66-8	2
Dibutyl phthalate	84-74-2	1

4. First-aid measures

Inhalation	Remove to fresh air. If not breathing, give mouth to mouth; seek medical attention.
Skin contact	Wash with water. Remove contaminated clothing. If irritation persists, seek medical aid.
Eye contact	Wash with clean water with at least fifteen minutes; If irritation persists, get medical attention.
Ingestion	DO NOT INDUCE VOMITING. Give water or milk to drink; If irritation persists, get medical attention.
Most important symptoms/effects, acute and delayed	May cause redness, irritation on eye contact. May cause irritation to respiratory tract. May cause nausea, gastrointestinal tract irritation, or vomiting. May cause irritation to the skin.
Indication of immediate medical attention and special treatment needed	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.
General information	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 media	The product is non flammable.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	None known.
Special protective equipment and Special firefighting procedures	Product is non flammable.



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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 Methods and materials for containment and cleaning up

Avoid discharge into drains, water courses or onto the ground. 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 spill with absorbent material. 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 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

None known.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Type	Value
Dipropylene glycol monomethyl ether	PEL(TWA)	100 ppm (600 mg/m ³)
Dibutyl phthalate	PEL(TWA)	5 mg/m ³

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Dipropylene glycol monomethyl ether	TWA	100 ppm (600 mg/m ³)



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ether		
Dibutyl phthalate	TWA	5 mg/m ³

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	Type	Value
Dipropylene glycol monomethyl ether	TLV(TWA)	100 ppm (606 mg/m ³)
ether	TLV(ST)	150 ppm (909 mg/m ³)
Dibutyl phthalate	TLV (TWA)	5 mg/m ³

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Dipropylene glycol monomethyl ether	REL (TWA)	100 ppm (600 mg/m ³)
Dibutyl phthalate	REL(TWA)	5 mg/m ³ (909 mg/m ³)

Appropriate engineering controls Local exhaust to keep the vapor concentration below TLV. 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.

Individual protection measures, such as personal protective equipment

Eye/face protection Goggles or face shield.

Skin protection

Hand protection

Rubber or plastic if prolonged contact is likely.

Other

Plastic apron, if contact is likely; eyewash station should be available.

Respiratory protection

None required with normal use. If spraying, wear a NIOSH-approved respirator for organic vapor, and ensure workers are trained in proper use.

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.



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9. Physical and chemical properties

Appearance	Milky white, thin liquid.
Physical state	Liquid.
Form	Liquid.
Color	Milky white.
Odor	Very little odor.
Odor threshold	Not available.
pH	Not available.
Melting point	Not available.
Freezing point	Not available.
Initial boiling point and boiling range	212 °F
Flash point	Product is non flammable.
% Volatile by Volume	74-75%
Evaporation rate (BuOAc=1)	As water.
Maximum Volatile Organic Compound (V.O.C.)	<350 grams/liter
Flammability (solid, liquid, gas)	Non flammable.
Upper/lower flammability or explosive 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)	As water.
Vapor density (Air=1)	As water.
Relative density (Specific gravity)	1.03-1.06
Solubility(ies)	
Solubility (water)	Completely soluble in water.
Solubility (other)	Soluble in alcohol, insoluble in most petroleum solvents.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Reactivity	Product is stable.
Chemical stability	Stable under recommended handling and storage conditions.
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	Keep from freezing.
Incompatible materials	None known.
Hazardous decomposition Products	Usual products of combustion, CO ₂ and oxides of nitrogen.



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11. Toxicological information

Information on likely routes of exposure

Ingestion May cause nausea, gastrointestinal tract irritation, or vomiting.
Inhalation May cause irritation to respiratory tract.
Skin contact May cause irritation to skin.
Eye contact May cause redness and irritation.

Symptoms related to the physical, chemical and toxicological characteristics May cause redness, irritation on eye contact. May cause irritation to respiratory tract. May cause nausea, gastrointestinal tract irritation, or vomiting. May cause irritation to the skin.

Delayed and immediate effects and also chronic effects from short- and long-term exposure No adverse long term effects are known, when used in accordance with safe handling information (see section 8).

Numerical measures of toxicity

Components	Test	Species	Test Results
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	Oral LD ₅₀	Rat	>5000 mg/kg
	Dermal LD ₅₀	Rabbit	9510 mg/kg
	Inhalation LC ₅₀	Rat	3000 mg/m ³ ,4h
Propylene glycol monobutyl ether (CAS 5131-66-8)	Oral LD ₅₀	Rat	3300 mg/kg
	Dermal LD ₅₀	Rabbit	>2000 mg/kg
	Inhalation LC ₅₀	Rat	>651 ppm ,4h
Dibutyl phthalate (CAS 84-74-2)	Oral LD ₅₀	Rat	6279 mg/kg
	Dermal LD ₅₀	Rabbit	4200 mg/kg
	Inhalation LC ₅₀	Rat	15.68 mg/l,4h
N-methyl pyrrolidone (CAS 872-50-4)	Oral LD ₅₀	Rat	3910 mg/kg
	Dermal LD ₅₀	Rabbit	>5000 mg/kg
	Inhalation LC ₅₀	Rat	>5.1 mg/l,4h

Skin corrosion/irritation Based on the available data classification criteria are not met.

Serious eye damage/eye irritation Based on the available data classification criteria are not met.

Respiratory or skin sensitization

Respiratory sensitization No information available.

Skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity May damage fertility or the unborn child.

Specific target organ toxicity - single exposure No information available.

Specific target organ toxicity - repeated exposure No information available.

Aspiration hazard No information available.



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12. Ecological information

Numerical measures of toxicity

Components	Test	Species	Test Results
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	Fish LC ₅₀	Guppy fish (<i>Poecilia reticulata</i>)	>1000 mg/l, 96h
	Algae EC ₅₀	Green algae (<i>Selenastrum capricornutum</i>)	>969 mg/l, 72h
Propylene glycol monobutyl ether (CAS 5131-66-8)	Fish LC ₅₀	Guppy fish (<i>Poecilia reticulata</i>)	> 560 - 1000mg/l, 96h
	Algae EC ₅₀	Green algae (<i>Selenastrum capricornutum</i>)	>1000 mg/l, 96 h
Dibutyl phthalate (CAS 84-74-2)	Fish LC ₅₀	Yellow perch (<i>Perca flavescens</i>)	0.35 mg/l, 96h
	Crustacea EC ₅₀	Water flea (<i>Daphnia magna</i>)	0.76-17 mg/l, 48 h
	Algae EC ₅₀	Green algae (<i>Selenastrum capricornutum</i>)	0.4 mg/l , 96h
N-methyl pyrrolidone (CAS 872-50-4)	Fish LC ₅₀	Rainbow trout (<i>Oncorhynchus mykiss</i>)	>500 mg/l , 96h
	Crustacea EC ₅₀	Water flea (<i>Daphnia magna</i>)	>1000 mg/l, 48h
	Algae EC ₅₀	Green algae (<i>Scenedesmus subspicatus</i>)	>500 mg/l, 72h

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Other adverse effects

No information available.

13. Disposal considerations

Disposal instructions

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 emptied containers may retain product residue, follow label warnings even after container is emptied. Do not reuse container for other purposes.



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14. Transport information

In accordance with DOT	Not regulated for transport.
In accordance with IMDG	Not regulated for transport.
In accordance with IATA	Not regulated for transport.

15. Regulatory information

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 listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Dipropylene glycol monomethyl ether (CAS 34590-94-8)	Listed
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Dibutyl phthalate (CAS 84-74-2)	Listed
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CERCLA Hazardous Substance List (40 CFR 302.4)

Dibutyl phthalate (CAS 84-74-2)	Listed
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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard	-	No
	Delayed Hazard	-	Yes
	Fire Hazard	-	No
	Pressure Hazard	-	No
	Reactivity Hazard	-	No

SARA 302/304 Extremely hazardous substance

None of the chemicals in this product is listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

Chemical Name	CAS number	% by wt
N-Methyl pyrrolidone	872-50-4	2-3
Dibutyl phthalate	84-74-2	1

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Dibutyl phthalate (CAS 84-74-2)

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)

N-Methyl pyrrolidone (CAS 872-50-4)

US State regulations

WARNING: This product contains chemicals known to the state of California to cause birth defect.



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

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

Dibutyl phthalate (CAS 84-74-2)

N-methyl pyrrolidone (CAS 872-50-4)

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

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

Dibutyl phthalate (CAS 84-74-2)

N-methyl pyrrolidone (CAS 872-50-4)

US. California Proposition 65

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

Dibutyl phthalate (CAS 84-74-2)

N-methyl pyrrolidone (CAS 872-50-4)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non- Domestic Substances List (NDSL)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*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).

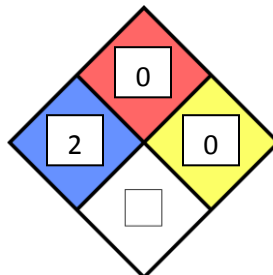
16. Other information, including date of preparation or last revision

Issue date 10-25-2000

Revision date 12-17-2015

Version # 01

NFPA rating



References

ACGIH: Documentation of the Threshold Limit Values and Biological Exposure indices

ECHA: European Chemicals Agency

HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer



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NIOSH: The National Institute for Occupational Safety and Health

NTP: National Toxicology Program

NLM: Hazardous Substances Data Base

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.