



SAFETY DATA SHEET

CRYSTALFIN®


Revised Date: 08-25-2015

Supersedes: 10-25-2000

1. Identification

Product identifier	CrystalFin®
Other means of identification	
SDS number	05
Synonyms	12010-12090 Gloss, 12110-12190 Semi-Gloss, 12210-12290 Satin, 12310-12390 Matte
Recommended use	Not available.
Recommended restrictions	Not available.
Manufacturer/Importer/Supplier/Distributor information	
Manufacturer/Supplier	Daly's Wood Finishing Products, 4522 S 133 rd St , Tukwila, WA 9816.
General Assistance	(206) 244-8844, toll free: (800) 727-9694
E-Mail	info@dalyswoodfinishes.com
Contact Person	Not available.
Emergency Telephone	Chemtrec : 800-424-9300

2. Hazard(s) Identification

Physical hazards	Not classified	
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity	Category 1B
	Specific target organ toxicity, repeated exposure	Category 2
Label elements		
Signal word	Danger	
Unknown Toxicity	4.30% of the mixture consist ingredient(s) of unknown toxicity.	
Hazard statement	Causes skin irritation. Causes serious eye irritation. May damage fertility or the unborn child. Causes damage to kidney, liver, blood through prolonged or repeated exposure.	



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Precautionary statement

Prevention

Wash skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection only. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray.

Response

IF ON SKIN: wash with plenty of soap and water. IF SKIN irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF eye irritation persists: Get medical advice/attention. 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 (HNOC)

None known.

3. Composition/information on ingredients

Mixture

<u>Chemical name</u>	<u>CAS number</u>	<u>%</u>
1-methyl-2-pyrrolidone	872-50-4	30
Triethylamine	121-44-8	
1-Butoxy-2-propanol	5131-66-8	2
1-propanol-2-butoxy	15821-83-7	
Diethylene glycol monobutyl ether	112-34-5	1.50
2-Butoxyethanol	111-76-2	<0.30

4. First-aid measures

Inhalation

Remove individual to fresh air. If not breathing, administer artificial respiration. Get medical aid immediately.

Skin contact

Wash off quickly with plenty of water, then soap and water. Remove and wash contaminated clothing before reuse.

Eye contact

Flush immediately with large amounts of water, especially



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Ingestion	under lids for at least 15 minutes. Obtain emergency medical treatment. DO NOT INDUCE VOMITING. Give water or milk to drink; get medical attention.
Most important symptoms/effects, acute and delayed	Eye contact may cause redness and irritation. Respiratory tract irritation. Skin contact results in irritation. Ingestion of large amounts may cause nausea, gastrointestinal irritation or vomiting.
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	Product is non-flammable.
Unsuitable extinguishing media	None.
Specific hazards arising from the chemical	None known.
Special protective equipment and Special firefighting procedures	Product is non-flammable.

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.



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Methods and materials for containment and cleaning up

Ventilate area of release. Stop spill or leak at source if safely possible. Soak up spill with absorbent materials. Let dry and dispose off. Never return spills to original containers for re-use. 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. Do not reuse container for other purposes. KEEP OUT OF REACH OF CHILDREN.

Conditions for safe storage

Store locked up. Store in original tightly closed container and appropriately labeled.

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
Triethylamine	PEL(TWA)	100 mg/m ³
2-Butoxyethanol	PEL(TWA)	240 mg/m ³
Dipropylene glycol monomethyl ether	PEL(TWA)	600 mg/m ³

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

Components	Type	Value
Triethylamine	TWA	100 mg/m ³
2-Butoxyethanol	TWA	240 mg/m ³
Dipropylene glycol monomethyl ether	TWA	600 mg/m ³

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

None of the components in this product is listed.



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

Components	Type	Value
Amorphous silica	TWA	20 millions of particles per cubic foot of air, 80/(%SiO ₂)

US. ACGIH Threshold Limit Values

Components	Type	Value
Triethylamine	TLV(TWA)	0.5 ppm
	TLV(ST)	1 ppm
2-Butoxyethanol	TLV(TWA)	20 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Triethylamine	REL (TWA)	10 ppm
	REL (ST)	15 ppm
2-Butoxyethanol	REL (TWA)	24 mg/m ³
Dipropylene glycol monomethyl ether	REL (TWA)	100 ppm
	REL (ST)	150 ppm

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.

Individual protection measures, such as personal protective equipment

Eye/face protection Goggles or face shield, if eye contact is likely.

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 vapors and ensure workers are trained in proper use. Local exhaust 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.



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9. Physical and chemical properties

Appearance	Milky white liquid.
Physical state	Liquid.
Form	Liquid.
Color	Milky white.
Odor	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	Not applicable.
% Volatile by Volume	74-75%
Evaporation rate (BuOAc=1)	<1
Maximum Volatile Organic Compound (V.O.C.)	367 grams/liter
Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	Not applicable.
Flammability limit – upper (%)	Not applicable.
Explosive limit - lower (%)	Not applicable.
Explosive limit - upper (%)	Not applicable.
Vapor pressure (mm Hg)	As water.
Vapor density (Air=1)	>1
Relative density (Specific gravity)	1.0-1.1
Solubility(ies)	
Solubility (water)	Soluble.
Solubility (other)	Soluble in alcohol; Insoluble in most petroleum solvents.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Viscosity	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	Hazardous polymerization will not occur.
Conditions to avoid	Keep from freezing.



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Incompatible materials None known.
Hazardous decomposition Products Usual products of combustion: CO₂ and oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

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

Symptoms related to the physical, chemical and toxicological characteristics Eye contact may cause redness and irritation. Respiratory tract irritation. Skin contact results in irritation. Ingestion of large amounts may cause nausea, gastrointestinal irritation or vomiting.

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). Pre-existing skin conditions could be aggravated by repeat exposure.

Numerical measures of toxicity

Components	Test	Species	Test Results
1-methyl-2-pyrrolidone (CAS 872-50-4)	Oral LD ₅₀	Rat	3600 mg/kg
	Dermal LD ₅₀	Rabbit	8000 mg/kg
	Inhalation LC ₅₀	Rat	5.1 mg/l, 4h
Triethylamine (CAS 121-44-8)	Oral LD ₅₀	Rat	460 mg/kg
	Dermal LD ₅₀	Rabbit	570 mg/kg
	Inhalation LC ₅₀	Rat	7.1 mg/l, 4h
2-butoxyethanol (CAS 111-76-2)	Oral LD ₅₀	Rat	470 mg/kg
	Dermal LD ₅₀	Rabbit	220 mg/kg
	Inhalation LC ₅₀	Rat	2.17 mg/l, 4h

Skin corrosion/irritation Causes skin irritation.
Serious eye damage/eye irritation Causes serious eye irritation.
Respiratory or skin sensitization
Respiratory sensitization No data available.
Skin sensitization No data available.
Germ cell mutagenicity No data available.
Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Reproductive toxicity May damage fertility or the unborn child.
Specific target organ toxicity - Based on available data, the classification criteria are not



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single exposure

**Specific target organ toxicity -
repeated exposure**

Aspiration hazard

met.

Causes damage to kidney, liver, blood through prolonged or repeated exposure.

Based on available data, the classification criteria are not met.

12. Ecological information

Numerical measures of toxicity

Components	Test	Species	Test Results
1-methyl-2-pyrrolidone (CAS 872-50-4)	LC ₅₀	Rainbow trout (<i>Oncorhynchus mykiss</i>)	>500 mg/l, 96h
	NOEC	Water flea (<i>Daphnia magna</i>)	12.5 mg/l, 21d
Triethylamine (CAS 121-44-8)	EC ₅₀	Water flea (<i>Daphnia magna</i>)	17 mg/l, 48h
	NOEC	Rainbow trout (<i>Oncorhynchus mykiss</i>)	3.2 mg/l, 60d

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.

14. Transport information

In accordance with DOT
In accordance with IMDG

Not regulated for transport
Not regulated for transport



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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.

Some 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)

Triethylamine (CAS 121-44-8) Listed

2-Butoxyethanol (CAS 111-76-2) Listed

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

CERCLA Hazardous Substance List (40 CFR 302.4)

Triethylamine (CAS 121-44-8) Listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories			
Immediate Hazard	-	Yes	
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
1-methyl-2-pyrrolidone	872-50-4	
Triethylamine	121-44-8	30

Other federal regulations

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

None of the chemicals in this product is listed.

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)

1-methyl-2-pyrrolidone (CAS 872-50-4)

Triethylamine (CAS 121-44-8)

US State regulations

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



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

1-methyl-2-pyrrolidone (CAS 872-50-4)
Triethylamine (CAS 121-44-8)
Dipropylene glycol monomethyl ether (CAS 34590-94-8)
Amorphous silica (CAS 112926-00-8)
2-Butoxyethanol (CAS 111-76-2)
Propylene glycol (CAS 57-55-6)

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

1-methyl-2-pyrrolidone (CAS 872-50-4)
Triethylamine (CAS 121-44-8)
Dipropylene glycol monomethyl ether (CAS 34590-94-8)
2-Butoxyethanol (CAS 111-76-2)
Propylene glycol (CAS 57-55-6)

US. California Proposition 65

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

1-methyl-2-pyrrolidone (CAS 872-50-4)

International Inventories

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

*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).



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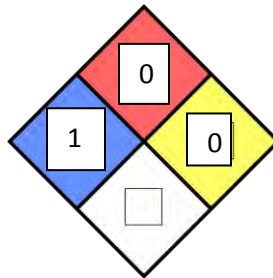
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16. Other information, including date of preparation or last revision

Issue date 10-25-2015
Revision date 08-25-2015
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
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.