



U.S. Department
of Transportation
**Pipeline and Hazardous
Materials Safety
Administration**

1200 New Jersey Avenue, SE
Washington, DC 20590

July 24, 2025

Courtney Ostbye
Director of Operations
Daly's Wood Finishing Products
A Division of Farwest Paint Mfg. Co
4522 S. 133rd St
Tukwila, WA 98168

Reference No. 25-0011

Dear Ms. Ostbye:

This letter is in response to your January 21, 2025 letter requesting clarification of the Hazardous Materials Regulations (HMR; 49 CFR Parts 171-180) applicable to the segregation requirements of a two-component wood bleach solution. You state that your company manufactures and markets a wood bleach solution comprising both “UN1824, Sodium hydroxide solution, 8, II”—which is referred to as bleach solution A—and “UN2014, Hydrogen peroxide, aqueous solution, 5.1 (8), II”—which is referred to as bleach solution B. You state that each component is packaged individually in a pint, quart, or gallon plastic bottle. You further state the pint and quart-sized plastic bottles are enclosed together in the same industrial polyethylene bags, while the gallon-sized bottles are packaged separately in polyethylene bags; and then, in both cases, the components are packaged together in United Nations (UN) fiberboard boxes. Lastly, you state that these components are designed to be mixed by the end-user (*i.e.*, customer) and pose no risk of combustion, evolution of considerable heat, evolution of flammable or poisonous gases or vapors, or the formation of corrosive or unstable substances when mixed. You ask does the segregation requirements in § 176.83(b) of the HMR and Chapter 7.2 of the International Maritime Dangerous Goods (IMDG) Code apply to the components of this kit?

You are correct in that the segregation requirements in the table in § 176.83(b) indicate that these two components would not be allowed in the same shipping container, and therefore they would not be allowed in the same outer packaging. However, one of the provisions for the segregation requirements is found in § 176.83(a)(4)(ii), where it states that segregation is not required between hazardous materials of different classes which comprise a group of substances that do not react dangerously with each other. That provision goes on to list some materials that are grouped by compatibility. It should be noted that there may be additional groups of materials that are compatible and do not react dangerously with each other that are not listed in paragraph

(a)(4)(ii)(A) through (C), even when segregation applies in accordance with § 176.83(b). The IMDG Code contains a similar provision in Section 7.2.6.3.2.

Additionally, all packagings of hazardous materials must comply with § 173.21(e), which states that it is forbidden to offer for transportation “a material in the same packaging, freight container, or overpack with another material, the mixing of which is likely to cause a dangerous evolution of heat, or flammable or poisonous gases or vapors, or to produce corrosive materials.”

I hope this information is helpful. Please contact us if we can be of further assistance.

Sincerely,

A handwritten signature in blue ink, reading "T. Glenn Foster". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

T. Glenn Foster
Chief, Regulatory Review and Reinvention Branch
Standards and Rulemaking Division

From: [INFOCNTR \(PHMSA\)](#)
To: [Dodd, Alice \(PHMSA\)](#)
Subject: FW: Request for Letter of Interpretation / Exemption
Date: Tuesday, January 28, 2025 4:47:46 PM
Attachments: [USDOT Exemption Request Letter.pdf](#)
[A BLEACH.pdf](#)
[B BLEACH.pdf](#)
[Wood Kote Lite-N-Up Part A - SDS.PDF](#)
[PH MSA 98-0509.pdf](#)
[Wood Kote WB801 SDS.pdf](#)
[Wood Kote WB802 SDS.pdf](#)
Importance: High

Hi Alice,

I'm resending this interpretation request email in case it was missed.

Thanks

From: INFOCNTR (PHMSA)
Sent: Wednesday, January 22, 2025 5:00 PM
To: Hazmat Interps <hazmatinterps@dot.gov>
Subject: FW: Request for Letter of Interpretation / Exemption
Importance: High

Hello Hazmat Interps,

Please see the attached request for letter of interpretation and other attachments.

Thanks,
Jonathon

From: Courtney Ostbye <courtney@dalyswoodfinishes.com>
Sent: Tuesday, January 21, 2025 4:48 PM
To: INFOCNTR (PHMSA) <INFOCNTR.INFOCNTR@dot.gov>
Subject: Request for Letter of Interpretation / Exemption
Importance: High

You don't often get email from courtney@dalyswoodfinishes.com. [Learn why this is important](#)

CAUTION: This email originated from outside of the Department of Transportation (DOT). Do not click on links or open attachments unless you recognize the sender and know the content is safe.

Thank you for talking with me this afternoon.

As you know, we are seeking an exemption to ship our A&B Wood Bleach Solution together in the same box. Our competitors have obtained letters of interpretation that have allowed them to ship

their items together and sell nationally and internationally.

Attached you will find a letter from me for a letter of interpretation/exemption, as well as the following supporting documents:

- Daly's Bleach Solution "A" SDS
- Daly's Bleach Solution "B" SDS
- Daly's Wood Bleach Specification Sheet
- PH MSA 98-0509
- Wood Kote WB801 "A" SDS
- Wood Kote WB802 "B" SDS

Best Regards,

Courtney Ostbye

Director of Operations

Daly's Wood Finishing Products

A Division of Farwest Paint Mfg. Co.

(206) 244-8844 ext 114

4522 S 133rd St - Tukwila, WA - 98168





Daly's Wood Finishing Products
A Division of Farwest Paint Mfg Co
4522 S 133rd St
Tukwila, WA 98168

January 21, 2025

Office of Hazardous Materials Standards
US Department of Transportation
1200 New Jersey Ave
SE Washington, DC 20590

RE: Request for Letter of Interpretation/Exemption

To Whom It May Concern:

We manufacture and market a two component Wood Bleach Solution. The components of our Wood Bleach are part "A", a Sodium Hydroxide Solution and part "B", a Hydrogen Peroxide Aqueous Solution. Each component is packaged in pint, quart and gallon HDPE, high density polyethylene, bottles. All bottles are HIS with Vented CRC caps and then enclosed in 2mil industrial poly bags. The pint and quart bottles are enclosed together and the gallon kits are enclosed separately. All components are then packaged in UN specified heavy weight fiberboard cartons.

Should the two components leak and combine they pose no risk of reacting dangerously with each other. Our A&B Wood Bleach Solution is specifically made to mix together, through proprietary formulation, and does not cause any external reaction when mixed together.

Our two part Wood Bleach Solution will not cause combustion, evolution of considerable heat, evolution of flammable or poisonous gases or vapors, or the formation of corrosive or unstable substances. The two components combined are less dangerous than each component individually. In fact, our Bleach Solution "B" has a subsidiary hazmat number of 8 which is the same as the Bleach Solution "A".

Attached you will find the following SDS Sheets:

- Bleach Solution "A" (Product Code 17010)
- Bleach Solution "B" (Product Code 17110)

I have also attached a letter of interpretation given to our direct competitor Wood Kote. I have attached their SDS sheets as well and you will see they are nearly identical. Our concern is the same as Wood Kote's, addressed in your April 17, 1998 letter. We want to be able to make domestic and international freight and marine shipments with our two components packaged together.

DALYS
WOOD FINISHING PRODUCTS
A DIVISION OF FARWEST PAINT MFG. CO.

We would like to have a clarification addressed to Daly's Wood Finishing Products & Farwest Paint Mfg Co directly to present to shipping authorities.

We would like to request for the USDOT to provide a clarification letter which states that our Wood Bleach Solution components are compatible for shipment together and therefore the segregation requirements enumerated in the IMDG Code page 0129 15.1.16 and 49 CFR 176.83(b) in accordance with the hazardous material segregation table, do not apply to our A&B Wood Bleach Solution.

If any more information is required for this request or you have any questions please reach out directly by email: Courtney@dalywoodfinishes.com ; or by phone: (206) 244-8844 ext 114.

Thank you for your time and consideration in this matter.

Best Regards,



Courtney Ostbye
Director of Operations
Daly's Wood Finishing Products
A Division of Farwest Paint Mfg Co

SAFETY DATA SHEET
WOOD KOTE PRODUCTS INC.
www.woodkote.com

Section 1: Product and Company Identification

Product Name: Lite-N-Up Part "B" (Wood Bleach) Product Code: 802B

WOOD KOTE PRODUCTS INC.
8000 NE 14th Place
Portland, Oregon 97211
USA

TEL: 503-285-8371
800-843-7666 (Toll Free USA & Canada)
FAX: 503-285-8374
E-MAIL: info@woodkote.com

EMERGENCY CONTACT
INFOTRAC (Transportation): 800-535-5053

Product Use: Intended for professional use only. Wood Bleach component intended to be combined in equal proportions with Lite-N-Up Part "A" (Product Code 801A)

Section 2: Hazards Identification

GHS Ratings:

| | | |
|--------------------|----|--|
| Skin corrosive | 1A | Destruction of dermal tissue: exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal. |
| Eye corrosive | 1 | Serious eye damage: irreversible damage 21 days after exposure. Draize score: Corneal opacity ≥ 3 , Iritis > 1.5. |
| Reproductive toxin | 1B | Presumed, based on experimental animals. |

GHS Hazards

| | |
|------|--|
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |

GHS Precautions

| | |
|----------------|--|
| P260 | Do not breathe mist/vapours/spray. |
| P262 | Do not get in eyes, on skin, or on clothing. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P281 | Use personal protective equipment as required. |
| P391 | Collect spillage. |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting |
| P303+P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower |
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing |
| P305+P351+P338 | IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing |
| P308+P313 | IF exposed or concerned: Get medical advice/attention |
| P404 | Store in a closed container. |
| P501WK | If spilled, contain spilled material and dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. Avoid release to the environment. |

Signal Word: Danger



CORROSIVE

Section 3: Composition / Information on Ingredients

| Chemical Name | CAS number | Weight Concentration % |
|------------------|------------|------------------------|
| Water | 7732-18-5 | 90.00% - 100.00% |
| Sodium Hydroxide | 1310-73-2 | 1.00% - 5.00% |

Section 4: First Aid Measures

IF INHALED: If breathing is difficult, remove source of exposure or move victim to fresh air and keep at rest in a position comfortable for breathing. If victim is not breathing, call 911 and administer CPR as directed.

IF IN EYES: Rinse eyes cautiously with lukewarm, gently flowing water for 15 minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Take care not to rinse contaminated water into the unaffected eye or onto the face. Get immediate medical attention.

IF ON SKIN: Remove contaminated clothing/shoes. Flush skin with water for at least 15 minutes. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned.

IF SWALLOWED: If fully conscious, drink as much water as can be tolerated. DO NOT induce vomiting. DO NOT neutralize with acidic juices. Get medical attention immediately.

Note to Physician: Provide general supportive measures and treat symptomatically.

Section 5: Fire Fighting Measures

Flash Point: NDA

LEL: NDA

UEL: NDA

FLAMMABILITY: Product is not flammable and will not burn.

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical, or CO₂.

SPECIFIC HAZARDS: In a fire, dried product can decompose at elevated temperatures and may release toxic fumes/vapors. Exposure to products of decomposition during a fire may be hazardous.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide and unidentified organic compounds may be formed during combustion.

FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and gear when fighting fires involving this material. Although not flammable as supplied, this material is a strong oxidizer and will contribute copious amounts of oxygen during decomposition.

FIRE EQUIPMENT: Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NOISH approved, self-contained breathing apparatus

Section 6: Accidental Release Measures

PERSONAL PRECAUTIONS: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). 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. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.

SMALL SPILLS: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use.

LARGE SPILLS: Dike far ahead of liquid spill for later disposal. Keep material out of storm sewers and ditches which lead to waterways.

Section 7: Handling and Storage

HANDLING: Use caution when combining with Lite-N-Up "A" (Product code 801A). Do not taste or swallow. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep away from heat, sparks, and flame. Surfaces that are hot may ignite even liquid product in the absence of sparks or flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone.

STORAGE: Keep in original container tightly closed when not in use and stored away in a cool dark area up to one year.

COMMENTS: Read label before use. KEEP OUT OF REACH OF CHILDREN! Empty containers, retain product residue (liquid and/or vapor). Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition; they may explode and cause injury or death.

Section 8: Exposure Control and Personal Protection

| Chemical Name / CAS No. | OSHA Exposure Limits | ACGIH Exposure Limits | Other Exposure Limits |
|-------------------------------|----------------------|-----------------------|-----------------------|
| Water 7732-18-5 | NDA | NDA | NDA |
| Sodium Hydroxide 1310-73-2 | PEL: 2mg/m3 | CEILING: 2 mg/m3 | NIOSH IDLH: 10 mg/m3 |

ENGINEERING CONTROLS: Provide explosion-proof general local exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

VENTILATION: Good general ventilation should be used. Ventilation rates should be matched to conditions.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety goggles. Maintain eye wash fountain and quick drench facilities in work areas.

SKIN: Wear protective gloves. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

RESPIRATORY: In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

WORK HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

OTHER USE PRECAUTIONS: May be harmful if swallowed. May irritate body tissues. Use with adequate ventilation. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

COMMENTS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

CONTAMINATED GEAR: Take off contaminated clothing and wash it before reuse. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Section 9: Physical and Chemical Properties

| | |
|--|---|
| Autoignition temperature: N/A Grams 0.0 VOC/Coating/Regulatory Appearance: Clear, Colorless Vapor Pressure: 0 mm Hg 30 C Vapor Density: >1 Melting point: N/A Solubility: Complete Flash point: NDA | Decomposition temperature: N/A Viscosity: N/A Odor: Slightly pungent Odor threshold: 3.88 PH >13 Freezing point: N/A Boiling range: 100°C Evaporation rate: >1 (n-Butyl Acetate=1) |
|--|---|

Section 10: Stability and Reactivity

Stability:

Under normal conditions:

STABLE

Incompatibilities:

Incompatible with acids, halogenated compounds, aluminum, brass, bronze, copper, lead, tin, and zinc.

Hazardous decomposition:

Contact with certain metals may produce hydrogen gas.

Hazardous polymerization will not occur.

Section 11: Toxicological Information

Component Toxicity

1310-73-2

Sodium Hydroxide

Oral LD50: 300 mg/kg (Rat) Dermal LD50: 500 mg/L (Rabbit)

PRIMARY ROUTES OF ENTRY

Inhalation, skin contact, eye contact, ingestion.

Target Organs: Eyes, lungs, reproductive system, cholinesterase, respiratory system.

Effects of Overexposure

| | |
|--------------|--|
| Inhalation | Effects from inhalation of dust or mist vary from mild irritation to serious damage of the upper respiratory tract, depending on severity of exposure. Symptoms may include sneezing, sore throat or runny nose. Severe pneumonitis may occur. |
| Ingestion | Swallowing may cause severe burns of mouth, throat, and stomach. Severe scarring of tissue and death may result. Symptoms may include bleeding, vomiting, diarrhea, fall in blood pressure. Damage may appear days after exposure. |
| Skin Contact | Contact with skin can cause irritation or severe burns and scarring with greater exposures. |
| Eye Contact | Causes irritation of eyes, and with greater exposures it can cause burns that may result in permanent impairment of vision, even blindness. |
| Chronic | Prolonged contact with dilute solutions or dust has a destructive effect upon tissue. |

Section 12: Ecological Information

Component Ecotoxicity

Sodium Hydroxide

Fish: 96 hr LC50 Western Mosquitofish: 125 mg/L; 48 hr LC50 Bluegill: 99 mg/L

Invertebrate: 48 hr EC50 Daphnia magna: 34.59 - 47.13 mg/L

Section 13: Disposal Considerations

DISPOSAL: If spilled, contain spilled material and dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. Avoid release to the environment.

Section 14: Transport Information

| <u>Agency</u> | <u>Proper Shipping Name</u> | <u>UN Number</u> | <u>Packing Group</u> | <u>Hazard Class</u> |
|---------------|-----------------------------|------------------|----------------------|---------------------|
| DOT | Sodium Hydroxide, Solution | UN1824 | II | 8 |
| IATA | Sodium Hydroxide, Solution | UN1824 | II | 8 |
| IMDG | Sodium Hydroxide, Solution | UN1824 | II | 8 |

Section 15: Regulatory Information

ACGIH (American Conference of Governmental Industrial Hygienists)

TWA (Time-Weighted Average)

OSHA (Occupational Safety and Health Administration)

NIOSH (National Institute for Occupational Safety and Health)

SARA Title III: Section 311/312 Hazards- Acute (immediate) Health Hazard, Chronic (delayed) Health Hazard.

Section 16: Other Information

ABBREVIATIONS USED IN THE SDS:

NDA: No Data Available

N/A: Not Applicable

Hazardous Material Information System (HMIS)

| | | |
|---------------------|--|---|
| HEALTH | | 3 |
| FLAMMABILITY | | 0 |
| PHYSICAL HAZARD | | 1 |
| PERSONAL PROTECTION | | H |

HMIS & NFPA Hazard Rating

Legend

* = Chronic Health Hazard

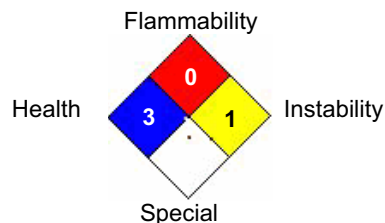
0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

National Fire Protection Association (NFPA)



DISCLAIMER: The information contained herein is based on data available to us and is believed to be correct. WOOD KOTE PRODUCTS makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. WOOD KOTE PRODUCTS assumes no responsibility for injury from the use of the product described herein. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with handling, storage, use or disposal of the product.

Date Revised: 10/9/2015

Updated on: 07/10/2017

SAFETY DATA SHEET
WOOD KOTE PRODUCTS INC.
www.woodkote.com

Section 1: Product and Company Identification

Product Name: Lite-N-Up Part "A" (Wood Bleach) Product Code: 801A

WOOD KOTE PRODUCTS INC.
8000 NE 14th Place
Portland, Oregon 97211
USA

TEL: 503-285-8371
800-843-7666 (Toll Free USA & Canada)
FAX: 503-285-8374
E-MAIL: info@woodkote.com

EMERGENCY CONTACT
INFOTRAC (Transportation): 800-535-5053

Product Use: Intended for professional use only. Wood Bleach component intended to be combined in equal proportions with Lite-N-Up Part "B" (Product Code 802B)

Section 2: Hazards Identification

GHS Ratings:

| | | |
|-------------------------------|--------------|--|
| Oxidizing liquid | 2 | Oxidizing liquid class 2 |
| Oral Toxicity | Acute Tox. 4 | Oral>300+<=2000mg/kg |
| Dermal Toxicity | Acute Tox. 4 | Dermal>1000+<=2000mg/kg |
| Skin corrosive | 2 | Reversible adverse effects in dermal tissue. Draize score: >= 2.3 < 4.0 or persistent inflammation. |
| Eye corrosive | 1 | Serious eye damage: irreversible damage 21 days after exposure. Draize score: Corneal opacity >= 3, Iritis > 1.5. |
| Organ toxin single exposure | 3 | Transient target organ effects- Narcotic effects- Respiratory tract irritation. |
| Organ toxin repeated exposure | 2 | Presumed to be harmful to human health- Animal studies with significant toxic effects relevant to humans at generally moderate exposure (guidance)- Human evidence in exceptional cases. |

GHS Hazards

| | |
|------|--|
| H271 | May cause fire or explosion; strong oxidizer. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

GHS Precautions

| | |
|----------------|---|
| P210 | Keep away from heat/sparks/open flames/hot surfaces - No smoking. |
| P220 | Keep/Store away from clothing/combustible materials. |
| P221 | Take any precaution to avoid mix in with combustibles. |
| P260 | Do not breathe mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell |
| P302+P352 | IF ON SKIN: Wash with soap and water |
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing |
| P305+P351+P338 | IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing |

P332+P313 If skin irritation occurs: Get medical advice/attention
P370+P378 In case of fire: Use water fog, "alcohol" foam, dry chemical, or CO2.
P403 Store in a well ventilated place.
P405 Store locked up.
P420 Store away from other materials.
P501WK If spilled, contain spilled material and dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. Avoid release to the environment.

Signal Word: Danger



STRONG OXIDIZER

Section 3: Composition / Information on Ingredients

| Chemical Name | CAS number | Weight Concentration % |
|-------------------|------------|------------------------|
| Water | 7732-18-5 | 70.00% - 80.00% |
| Hydrogen Peroxide | 7722-84-1 | 20.00% - 30.00% |

Section 4: First Aid Measures

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician.

IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.

IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persist.

IF SWALLOWED: DO NOT INDUCE VOMITING. Do not attempt to give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.

Note to Physician: Provide general supportive measures and treat symptomatically. Keep victim warm. Keep under observation. Symptoms may be delayed.

Section 5: Fire Fighting Measures

Flash Point: NDA

LEL: NDA

UEL: NDA

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical, or CO2. Do not use water jet as an extinguisher, as this will spread the fire.

EXPLOSION HAZARDS: May intensify fire. Strong oxidizer! Contact with combustible material may cause fire.

HAZARDOUS COMBUSTION PRODUCTS: Greatly increases the burning rate of combustible materials. Containers may explode when heated. During fire, gases hazardous to health may be formed.

FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and gear when fighting fires involving this material. Although not flammable as supplied, this material is a strong oxidizer and will contribute copious amounts of oxygen during decomposition.

FIRE EQUIPMENT: Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NOISH approved, self-contained breathing apparatus.

Section 6: Accidental Release Measures

PERSONAL PRECAUTIONS: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). 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. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.

SMALL SPILLS: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use.

LARGE SPILLS: Stop the flow of the material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Section 7: Handling and Storage

HANDLING: PREVENT/ KEEP FROM FREEZING. Do not taste or swallow. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep away from heat, sparks, and flame. Surfaces that are hot may ignite even liquid product in the absence of sparks or flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone.

STORAGE: Keep in original container tightly closed when not in use and stored away in a cool dark area up to one year.

COMMENTS: Read label before use. KEEP OUT OF REACH OF CHILDREN! Empty containers, retain product residue (liquid and/or vapor). Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition; they may explode and cause injury or death.

Section 8: Exposure Control and Personal Protection

| Chemical Name / CAS No. | OSHA Exposure Limits | ACGIH Exposure Limits | Other Exposure Limits |
|--------------------------------|------------------------------------|---|-----------------------|
| Water 7732-18-5 | NDA | NDA | NDA |
| Hydrogen Peroxide 7722-84-1 | TWA 1 ppm (1.4 mg/m ³) | TLV: 1 ppm CEIL: 2 mg/m ³ | NDA |

ENGINEERING CONTROLS: Provide explosion-proof general local exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

VENTILATION: Good general ventilation should be used. Ventilation rates should be matched to conditions.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety goggles. Maintain eye wash fountain and quick drench facilities in work areas.

SKIN: Wear protective gloves. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

RESPIRATORY: In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

WORK HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

OTHER USE PRECAUTIONS: May be harmful if swallowed. May irritate body tissues. Use with adequate ventilation. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

COMMENTS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

CONTAMINATED GEAR: Take off contaminated clothing and wash it before reuse. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Section 9: Physical and Chemical Properties

| | |
|--|--|
| Vapor Pressure: 0 mm Hg 30 C PH 2.4-3.4 Solubility: Complete Flash point: N/A Autoignition temperature: N/A Grams 0.0 VOC/Coating/Regulatory Appearance: Clear, Colorless | Vapor Density: >1 Freezing point: -28 °F (-33.3 °C) Boiling range: 244.1 °F (117.84 °C) Evaporation rate: >1 (n-Butyl Acetate=1) Decomposition temperature: N/A Viscosity: 0.890 cP at 25 °C Odor: Slightly Sharp / Pungent |
|--|--|

Section 10: Stability and Reactivity

Stability:

Under normal conditions:

STABLE

Incompatibilities:

Strong oxidizers.

Decomposes slowly to release oxygen. Unstable when heated or contaminated with heavy metals, reducing agents, rust, dirt or organic materials. Stability is reduced when pH is above 4.0.

Hazardous decomposition:

Oxygen, hydrogen gas, water, heat, steam.

Hazardous polymerization will not occur.

Section 11: Toxicological Information

Mixture Toxicity

Oral Toxicity LD50: 2,934mg/kg

Component Toxicity

7722-84-1 Hydrogen Peroxide

Oral LD50: 1,518 mg/kg (Rat) Dermal LD50: 4,060 mg/kg (Rat)

PRIMARY ROUTES OF ENTRY

Inhalation, skin contact, eye contact, ingestion.

Target Organs: Eyes, lungs, respiratory system.

Effects of Overexposure

| | |
|------------|--|
| Eyes | Contact with liquid is corrosive to the eyes and causes severe burns. Contact with the eyes may cause corneal damage. |
| Skin | Causes severe skin irritation and possible burns. May cause discoloration, erythema (redness), swelling, and the formation of papules and vesicles (blisters). |
| Ingestion | Causes gastrointestinal irritation with nausea, vomiting and diarrhea. Causes gastrointestinal tract burns. May cause vascular collapse and damage. May cause damage to the red blood cells. May cause difficulty in swallowing, stomach distension, possible cerebral swelling and death. Ingestion may result in irritation of the esophagus, bleeding of the stomach and ulcer formation. |
| Inhalation | Causes chemical burns to the respiratory tract. May cause ulceration of nasal tissue, insomnia, nervous tremors with numb extremities, chemical pneumonia, unconsciousness, and death. At high concentrations, respiratory effects may include acute lung damage and delayed pulmonary edema. |
| Chronic | Prolonged or repeated skin contact may cause dermatitis. Laboratory experiments have resulted in mutagenic effects. Repeated contact may cause corneal damage. |

Section 12: Ecological Information

Component Ecotoxicity

Hydrogen Peroxide

Fish: Carp: LC50 = 42 mg/L; 48 Hr; Unspecified

Fish: Fathead Minnow: LC50 = 16.4 mg/L; 96 Hr; Fresh water

Fish: Fathead Minnow: NOEC = 5 mg/L; 96 Hr; Fresh water

Water flea Daphnia: EC50 = 2.4 mg/L; 48 Hr; Fresh water

Fish: Channel catfish: LC50 = 37.4 mg/L; 96 Hr; Fresh water

Section 13: Disposal Considerations

DISPOSAL: If spilled, contain spilled material and dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. Avoid release to the environment.

Section 14: Transport Information

| <u>Agency</u> | <u>Proper Shipping Name</u> | <u>UN Number</u> | <u>Packing Group</u> | <u>Hazard Class</u> |
|---------------|--|------------------|----------------------|---------------------|
| DOT | Hydrogen Peroxide, Aqueous Solution Oxidizer, Corrosive | UN2014 | II | 5.1 (8) |
| IATA-DGR | Hydrogen Peroxide, Aqueous Solution Oxidizer, Corrosive | UN2014 | II | 5.1 (8) |
| IMDG | Hydrogen Peroxide, Aqueous Solution Oxidizer, Corrosive | UN2014 | II | 5.1 (8) |

Section 15: Regulatory Information

ACGIH (American Conference of Governmental Industrial Hygienists)

TWA (Time-Weighted Average)

OSHA (Occupational Safety and Health Administration)

NIOSH (National Institute for Occupational Safety and Health)

US Federal regulations:

This product is a "Hazardous Chemical" as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12 (b) Export Notification (40 CFR 302.4):

Not listed.

SARA 304 Emergency release notification:

HYDROGEN PEROXIDE (H₂O₂) (CAS 7722-84-1) 1000 Lbs.

US. California Proposition 65:

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Country:

Canada

WHMIS

(Workplace Hazardous Materials Information System)

Regulation



Section 16: Other Information

ABBREVIATIONS USED IN THE SDS:

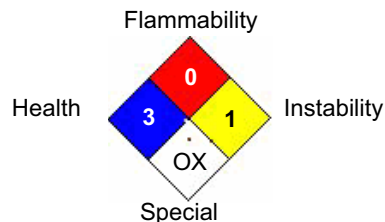
NDA: No Data Available

N/A: Not Applicable

Hazardous Material Information System (HMIS)

| | | |
|---------------------|---|---|
| HEALTH | 3 | HMIS & NFPA Hazard Rating Legend * = Chronic Health Hazard 0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH |
| FLAMMABILITY | 0 | |
| PHYSICAL HAZARD | 1 | |
| PERSONAL PROTECTION | H | |

National Fire Protection Association (NFPA)



DISCLAIMER: The information contained herein is based on data available to us and is believed to be correct. WOOD KOTE PRODUCTS makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. WOOD KOTE PRODUCTS assumes no responsibility for injury from the use of the product described herein. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with handling, storage, use or disposal of the product.

Date Revised: 10/9/2015



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

APR 17 1998

400 Seventh Street, S.W.
Washington, D.C. 20590

Mr. Gary P. Velikanje
President
Wood Kote Products, Inc
8000 N.E. 14th Place
Portland, OR 97211

Dear Mr. Velikanje:

This is in response to your letter of October 16, 1997, regarding the packaging of a two component wood bleach kit consisting of an aqueous solution of hydrogen peroxide (28%) and an aqueous solution of sodium hydroxide with a buffer of silicic acid. You request clarification under the provisions of the Hazardous Materials Regulations (HMR; 49 CFR Parts 171-180).

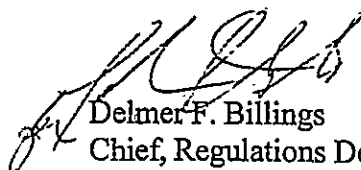
Specifically, you asked if a two part kit consisting of one inner container of a material described as Hydrogen peroxide, aqueous solution, 5.1, UN 2014 with a Class 8 subsidiary hazard, and one inner container of a material describe as Sodium hydroxide solution, 8, UN 1824, PG II may be placed in the same outside packaging for transport by vessel. You expressed concern that ocean carriers will not accept these shipments although they have been prepared in accordance with the HMR and the International Maritime Dangerous Goods (IMDG) Code.

Yes, these materials may be packaged together in the same outside package provided they are in accordance with 49 CFR 173.21 (e). As indicated in paragraph 3.6 in Annex I of the General Introduction to the IMDG Code, Amendment 28 (see IMDG Code page 0509), a corresponding provision specifies that materials may not be packaged together in the same outer packaging with other material if they react dangerously to each other and cause combustion and/or evolution of considerable heat, evolution of flammable, poisonous or asphyxiate gases, or the formation of corrosive or unstable substances.

In addition, it is the shippers responsibility to ensure that your materials are properly packaged, marked and labeled. Each material within the package, must be described on the shipping paper and marked on the outside package. The package must be labeled with a Division 5.1 label and a Class 8 label for the primary hazard of the materials.

I hope that this information is helpful. If you need further assistance, please contact us.

Sincerely,



Delmer F. Billings
Chief, Regulations Development
Office of Hazardous Materials Standards



*Polydore
File: 173.21
SC: 189*

16 October, 1997

Edward T Mazzullo, Director
Office of Hazardous Materials Standards
Research and Special Programs Administration
US DEPARTMENT OF TRANSPORTATION
400 7th St SW
Washington DC 20590

Via: Fax [202-366-8700] and USPS Priority Mail

Re: Request for clarification

Mr Mazzullo:

I am writing to request the assistance of your office. We manufacture and market a two component Wood Bleach kit. The components are: Part "A", an aqueous solution of Hydrogen Peroxide (28%) and Part "B", an aqueous solution of Sodium Hydroxide with a buffer of Silicic Acid. Each component is packaged in heavy duty polyethylene bottles (16 oz, 32 oz or 1 gal). The two bottles for the 16 oz and 32 oz kits are then enclosed in a plastic bag which is then placed into a light weight fiberboard box and then packed 8 kits in a UN specified heavy weight fiberboard carton. The gallon kits are packaged with 2 kits per UN specified heavy weight fiberboard carton with each Part "A" component enclosed in a plastic bag.

Should the two components leak and combine they will not react dangerously with each other, cause combustion or evolution of considerable heat, evolution of flammable or poisonous gases or vapors, or the formation of corrosive or unstable substances. The two components combined are, in fact, less dangerous than each individually.

I have, for your reference, enclosed the following MSDS's:

| <u>Product Description</u> | <u>Product Code</u> |
|-----------------------------------|---------------------|
| Part "A" | 800-WB-A |
| Part "B" | 800-WB-B |
| Part "A" & "B" combined ratio 1:1 | 800-WB-B |

I am also enclosing photocopies of letters you have provided to the WM Barr Co. Our wood bleach is equivalent to the Klean-Strip Wood Bleach they produce except the "A" and "B" labeling is reversed. Our concern is the same as WM Barr's addressed in your 08 November 1995, letter. We want to be able to make domestic and international marine shipments of our wood bleach and would like to have clarification addressed to Wood Kote to present to the shipping authorities.

Would it be possible for you to provide a clarification letter addressed to Wood Kote which states that our Wood Bleach components are compatible for shipment together and therefore the segregation requirements enumerated in the IMDG Code page 0129 15.1.16 and 49CFR Sec 176.83(b) & (c) (2) (iii) do not apply?

I assume you may have questions and may require additional information before you can issue the documentation we are seeking. If so, please do not hesitate to contact us by telephone, 800-843-7666 or fax 503-285-8374.

I thank you, in advance, for your prompt attention to this matter.

Yours truly,



Gary P Velikanje, President
WOOD KOTE PRODUCTS, INC

enclosures

cc: T Nash

SAFETY DATA SHEET
WOOD KOTE PRODUCTS INC.
www.woodkote.com

Section 1: Product and Company Identification

Product Name: Lite-N-Up Part "A" (Wood Bleach) Product Code: 801A

WOOD KOTE PRODUCTS INC.

8000 NE 14th Place
Portland, Oregon 97211
USA

TEL: 503-285-8371

800-843-7666 (Toll Free USA & Canada)

FAX: 503-285-8374

E-MAIL: info@woodkote.com

EMERGENCY CONTACT

INFOTRAC (Transportation): 800-535-5053

Product Use: Intended for professional use only. Wood Bleach component intended to be combined in equal proportions with Lite-N-Up Part "B" (Product Code 802B)

Section 2: Hazards Identification

GHS Ratings:

| | | |
|-------------------------------|--------------|--|
| Oxidizing liquid | 2 | Oxidizing liquid class 2 |
| Oral Toxicity | Acute Tox. 4 | Oral>300+<=2000mg/kg |
| Dermal Toxicity | Acute Tox. 4 | Dermal>1000+<=2000mg/kg |
| Skin corrosive | 2 | Reversible adverse effects in dermal tissue. Draize score: >= 2.3 < 4.0 or persistent inflammation. |
| Eye corrosive | 1 | Serious eye damage: irreversible damage 21 days after exposure. Draize score: Corneal opacity >= 3, Iritis > 1.5. |
| Organ toxin single exposure | 3 | Transient target organ effects- Narcotic effects- Respiratory tract irritation. |
| Organ toxin repeated exposure | 2 | Presumed to be harmful to human health- Animal studies with significant toxic effects relevant to humans at generally moderate exposure (guidance)- Human evidence in exceptional cases. |

GHS Hazards

| | |
|------|--|
| H271 | May cause fire or explosion; strong oxidizer. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

GHS Precautions

| | |
|----------------|---|
| P210 | Keep away from heat/sparks/open flames/hot surfaces - No smoking. |
| P220 | Keep/Store away from clothing/combustible materials. |
| P221 | Take any precaution to avoid mix in with combustibles. |
| P260 | Do not breathe mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell |
| P302+P352 | IF ON SKIN: Wash with soap and water |
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing |
| P305+P351+P338 | IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing |

P332+P313
P370+P378
P403
P405
P420
P501WK

If skin irritation occurs: Get medical advice/attention
In case of fire: Use water fog, "alcohol" foam, dry chemical, or CO2.
Store in a well ventilated place.
Store locked up.
Store away from other materials.
If spilled, contain spilled material and dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. Avoid release to the environment.

Signal Word: Danger



STRONG OXIDIZER

Section 3: Composition / Information on Ingredients

| Chemical Name | CAS number | Weight Concentration % |
|-------------------|------------|------------------------|
| Water | 7732-18-5 | 70.00% - 80.00% |
| Hydrogen Peroxide | 7722-84-1 | 20.00% - 30.00% |

Section 4: First Aid Measures

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.

IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.

IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persist.

IF SWALLOWED: DO NOT INDUCE VOMITING. Do not attempt to give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.

Note to Physician: Provide general supportive measures and treat symptomatically. Keep victim warm. Keep under observation. Symptoms may be delayed.

Section 5: Fire Fighting Measures

Flash Point: NDA

LEL: NDA

UEL: NDA

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical, or CO2. Do not use water jet as an extinguisher, as this will spread the fire.

EXPLOSION HAZARDS: May intensify fire. Strong oxidizer! Contact with combustible material may cause fire.

HAZARDOUS COMBUSTION PRODUCTS: Greatly increases the burning rate of combustible materials. Containers may explode when heated. During fire, gases hazardous to health may be formed.

FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and gear when fighting fires involving this material. Although not flammable as supplied, this material is a strong oxidizer and will contribute copious amounts of oxygen during decomposition.

FIRE EQUIPMENT: Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NOISH approved, self-contained breathing apparatus.

Section 6: Accidental Release Measures

PERSONAL PRECAUTIONS: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). 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. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.

SMALL SPILLS: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use.

LARGE SPILLS: Stop the flow of the material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Section 7: Handling and Storage

HANDLING: PREVENT/ KEEP FROM FREEZING. Do not taste or swallow. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep away from heat, sparks, and flame. Surfaces that are hot may ignite even liquid product in the absence of sparks or flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone.

STORAGE: Keep in original container tightly closed when not in use and stored away in a cool dark area up to one year.

COMMENTS: Read label before use. KEEP OUT OF REACH OF CHILDREN! Empty containers, retain product residue (liquid and/or vapor). Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition; they may explode and cause injury or death.

Section 8: Exposure Control and Personal Protection

| Chemical Name / CAS No. | OSHA Exposure Limits | ACGIH Exposure Limits | Other Exposure Limits |
|--------------------------------|------------------------------------|---|-----------------------|
| Water 7732-18-5 | NDA | NDA | NDA |
| Hydrogen Peroxide 7722-84-1 | TWA 1 ppm (1.4 mg/m ³) | TLV: 1 ppm CEIL: 2 mg/m ³ | NDA |

ENGINEERING CONTROLS: Provide explosion-proof general local exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

VENTILATION: Good general ventilation should be used. Ventilation rates should be matched to conditions.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety goggles. Maintain eye wash fountain and quick drench facilities in work areas.

SKIN: Wear protective gloves. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

RESPIRATORY: In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

WORK HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

OTHER USE PRECAUTIONS: May be harmful if swallowed. May irritate body tissues. Use with adequate ventilation. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

COMMENTS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

CONTAMINATED GEAR: Take off contaminated clothing and wash it before reuse. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Section 9: Physical and Chemical Properties

| | |
|---|--|
| Vapor Pressure: 0 mm Hg 30 °C PH 2.4-3.4 Solubility: Complete Flash point: N/A Autoignition temperature: N/A Grams 0.0 VOC/Coating/Regulatory Appearance: Clear, Colorless | Vapor Density: >1 Freezing point: -28 °F (-33.3 °C) Boiling range: 244.1 °F (117.84 °C) Evaporation rate: >1 (n-Butyl Acetate=1) Decomposition temperature: N/A Viscosity: 0.890 cP at 25 °C Odor: Slightly Sharp / Pungent |
|---|--|

Section 10: Stability and Reactivity

Stability:

Under normal conditions:

STABLE

Incompatibilities:

Strong oxidizers.

Decomposes slowly to release oxygen. Unstable when heated or contaminated with heavy metals, reducing agents, rust, dirt or organic materials. Stability is reduced when pH is above 4.0.

Hazardous decomposition:

Oxygen, hydrogen gas, water, heat, steam.

Hazardous polymerization will not occur.

Section 11: Toxicological Information

Mixture Toxicity

Oral Toxicity LD50: 2,934mg/kg

Component Toxicity

7722-84-1

Hydrogen Peroxide

Oral LD50: 1,518 mg/kg (Rat) Dermal LD50: 4,060 mg/kg (Rat)

PRIMARY ROUTES OF ENTRY

Inhalation, skin contact, eye contact, ingestion.

Target Organs: Eyes, lungs, respiratory system.

Effects of Overexposure

Eyes

Contact with liquid is corrosive to the eyes and causes severe burns. Contact with the eyes may cause corneal damage.

Skin

Causes severe skin irritation and possible burns. May cause discoloration, erythema (redness), swelling, and the formation of papules and vesicles (blisters).

Ingestion

Causes gastrointestinal irritation with nausea, vomiting and diarrhea. Causes gastrointestinal tract burns. May cause vascular collapse and damage. May cause damage to the red blood cells. May cause difficulty in swallowing, stomach distension, possible cerebral swelling and death. Ingestion may result in irritation of the esophagus, bleeding of the stomach and ulcer formation.

Inhalation

Causes chemical burns to the respiratory tract. May cause ulceration of nasal tissue, insomnia, nervous tremors with numb extremities, chemical pneumonia, unconsciousness, and death. At high concentrations, respiratory effects may include acute lung damage and delayed pulmonary edema.

Chronic

Prolonged or repeated skin contact may cause dermatitis. Laboratory experiments have resulted in mutagenic effects. Repeated contact may cause corneal damage.

Section 12: Ecological Information

Component Ecotoxicity

Hydrogen Peroxide

Fish: Carp: LC50 = 42 mg/L; 48 Hr; Unspecified
Fish: Fathead Minnow: LC50 = 16.4 mg/L; 96 Hr; Fresh water
Fish: Fathead Minnow: NOEC = 5 mg/L; 96 Hr; Fresh water
Water flea Daphnia: EC50 = 2.4 mg/L; 48 Hr; Fresh water
Fish: Channel catfish: LC50 = 37.4 mg/L; 96 Hr; Fresh water

Section 13: Disposal Considerations

DISPOSAL: If spilled, contain spilled material and dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. Avoid release to the environment.

Section 14: Transport Information

| Agency | Proper Shipping Name | UN Number | Packing Group | Hazard Class |
|----------|--|-----------|---------------|--------------|
| DOT | Hydrogen Peroxide, Aqueous Solution Oxidizer, Corrosive | UN2014 | II | 5.1 (8) |
| IATA-DGR | Hydrogen Peroxide, Aqueous Solution Oxidizer, Corrosive | UN2014 | II | 5.1 (8) |
| IMDG | Hydrogen Peroxide, Aqueous Solution Oxidizer, Corrosive | UN2014 | II | 5.1 (8) |

Section 15: Regulatory Information

ACGIH (American Conference of Governmental Industrial Hygienists)

TWA (Time-Weighted Average)

OSHA (Occupational Safety and Health Administration)

NIOSH (National Institute for Occupational Safety and Health)

US Federal regulations:

This product is a "Hazardous Chemical" as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12 (b) Export Notification (40 CFR 302.4):

Not listed.

SARA 304 Emergency release notification:

HYDROGEN PEROXIDE (H₂O₂) (CAS 7722-84-1) 1000 Lbs.

US. California Proposition 65:

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Country:

Canada

WHMIS

(Workplace Hazardous Materials Information System)

Regulation



Section 16: Other Information

ABBREVIATIONS USED IN THE SDS:

NDA: No Data Available

N/A: Not Applicable

Hazardous Material Information System (HMIS)

| | | |
|---------------------|---|---|
| HEALTH | | 3 |
| FLAMMABILITY | | 0 |
| PHYSICAL HAZARD | | 1 |
| PERSONAL PROTECTION | H | |

HMIS & NFPA Hazard Rating

Legend

* = Chronic Health Hazard

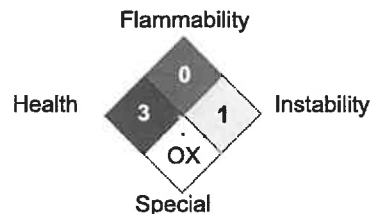
0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

National Fire Protection Association (NFPA)



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Date Revised: 10/9/2015



SAFETY DATA SHEET

BLEACH SOLUTION "B"

Revised Date: 10-02-2023

Supersedes: 06-01-2019

1. Identification

| | |
|---|--|
| Product identifier | Bleach Solution "B" |
| Other means of identification | |
| SDS number | 01 |
| Synonyms | 17100 |
| 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 98168. |
| 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 | Oxidizing liquids | Category 1 |
| Health hazards | Acute toxicity, oral | Category 4 |
| | Acute toxicity, inhalation | Category 4 |
| | Skin corrosion/irritation | Category 1A |
| | Serious eye damage/eye irritation | Category 1 |
| | Specific target organ toxicity, single exposure; Respiratory tract irritation | Category 3 |

Label elements



| | |
|--------------------------------|--|
| Signal word | Danger |
| Hazard statement | May cause fire or explosion; strong oxidizer. Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage. May cause respiratory irritation. |
| Precautionary statement | |
| Prevention | Keep away from heat/sparks/open flames/hot surfaces — No |



SAFETY DATA SHEET

BLEACH SOLUTION "B"

Revised Date: 10-02-2023

Supersedes: 06-01-2019

Response

smoking. Keep away from clothing and other combustible materials. Wear protective gloves/protective clothing/eye protection/face protection. Wear fire resistant or flame retardant clothing. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray.

IF ON CLOTHING: Rinse Immediately contaminated CLOTHING and SKIN with plenty of water before removing clothes. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. In case of fire: Use water spray, Adapt fire-extinguishing measures to surroundings, Foam, dry powder, Carbon dioxide (CO₂) for extinction. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF ON SKIN: wash with plenty of soap and water. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water/or [shower]. IF INHALED: Remove person to fresh air and Keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Use only outdoors or in a well-ventilated area. Store separately. Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Storage

Disposal

Hazard(s) not otherwise classified (HNOC)

None known.

3. Composition/information on ingredients

Mixture

| <u>Chemical name</u> | <u>CAS number</u> | <u>%</u> |
|----------------------|-------------------|----------|
| Hydrogen Peroxide | 7722-84-1 | 30 |

4. First-aid measures

Inhalation

Move individual to fresh air. If breathing has stopped, apply artificial respiration, get medical attention immediately.



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Skin contact

Wash area with soap and water. If irritation persists, get medical attention.

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; do not give baking soda or acid antidotes. Get medical attention.

Most important symptoms/effects, acute and delayed

May cause redness, irritation or chemical burns. Vapors or mist may cause respiratory tract irritation. Harmful or fatal if swallowed. May cause chemical burns.

Indication of immediate medical attention and special treatment needed

Obtain medical assistance. Pre-existing skin conditions could be aggravated by repeated exposure.

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

Non flammable.

Unsuitable extinguishing media

Do not use a heavy water stream.

Specific hazards arising from the chemical

Strong oxidizer can initiate spontaneous combustion. Rapid oxygen evolution from decomposing Hydrogen Peroxide may increase intensity of a fire. Decomposition of product can cause oxygen enrichment of atmosphere, making it ignitable.

Special protective equipment and Special firefighting procedures

Wear protective clothing and self-contained breathing apparatus. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

6. Accidental release measures



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Personal precautions, protective equipment and emergency procedures

Product causes chemical burns. Evacuate personnel to safe areas. Keep out unprotected persons. Keep unauthorized persons away.

Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and materials for containment and cleaning up

In case of larger quantities: Collect product in suitable containers (e. g. made of plastic) using appropriate equipment (e. g. liquid pump). Keep away from flammable substances. Keep away from incompatible substances. Rinse away any residue with plenty of water. Dispose of absorbed material in accordance with the regulations. With small amounts: Dilute product with lots of water and rinse away or absorb with liquid-binding material, e. g.: diatomaceous earth or universal binder. Pick up mechanically. Collect in suitable containers. Clean contaminated surface thoroughly. Pack and label wastes like the pure substance. Do not detach label from the delivery containers prior to disposal. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Precautions for safe handling

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Take any precaution to avoid mixing with Combustibles. Do not breathe mist, vapors, spray. Avoid contact during pregnancy/while nursing.

Conditions for safe storage

Store locked up. Store in original tightly closed container. Store away from incompatible materials. KEEP OUT OF REACH OF CHILDREN.

Incompatible materials

Heavy metals and their salts, reducing agents, strong oxidizers, alkalis and particular solids will cause decomposition.

8. Exposure controls/personal protection

Occupational exposure limits



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

| Components | Type | Value |
|-------------------|-----------|--------------------------------|
| Hydrogen peroxide | PEL (TWA) | 1 ppm (1.4 mg/m ³) |

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

| Components | Type | Value |
|-------------------|------|--------------------------------|
| Hydrogen peroxide | TWA | 1 ppm (1.4 mg/m ³) |

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

None of the chemical in this product is listed.

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

None of the chemical in this product is listed.

US. ACGIH Threshold Limit Values

| Components | Type | Value |
|-------------------|-----------|-------|
| Hydrogen peroxide | TLV (TWA) | 1 ppm |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|-------------------|-----------|--------------------------------|
| Hydrogen peroxide | REL (TWA) | 1 ppm (1.4 mg/m ³) |

Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety goggles or face shield.

Skin protection

Hand protection

Rubber or plastic gloves.

Other

Plastic apron, in contact is likely. Eyewash station should be available.

Respiratory protection

Wear NIOSH-approved respirator for organic vapors.

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. 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 | Clear, water-white liquid. |
| Physical state | Liquid. |
| Form | Liquid. |
| Color | Clear, water-white. |
| Odor | Not available. |
| Odor threshold | Not available. |
| pH | Not available. |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | 222 °F |
| Flash point | Not applicable. |
| % Volatile by Volume | 100% |
| Evaporation rate (BuOAc=1) | Less than water. |
| Maximum Volatile Organic Compound (V.O.C.) | None. |
| 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) | 23mm Hg at 86 °F |
| Vapor density (Air=1) | Not available. |
| Relative density (Specific gravity) | 1.112 |
| Solubility(ies) | |
| Solubility (water) | Soluble. |
| Solubility (other) | Completely soluble in alcohol. |
| 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 unstable. Thermal decomposition generates corrosive vapors. |
| Chemical stability | Unstable on exposure to light. May cause fire or explosion; strong oxidizer. |
| Possibility of hazardous reactions | Hazardous polymerization will not occur. |



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Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Overheating. Open flame.

Incompatible materials

Heavy metals and their salts, reducing agents, strong oxidizers, alkalis and particular solids will cause decomposition.

Hazardous decomposition Products

Oxygen, steam, peroxide vapor and heat.

11. Toxicological information

Information on likely routes of exposure

Ingestion

Harmful or fatal if swallowed.

Inhalation

Vapors or mist may cause respiratory tract irritation.

Skin contact

May cause chemical burns.

Eye contact

May cause redness, irritation or chemical burns.

Symptoms related to the physical, chemical and toxicological characteristics

May cause redness, irritation or chemical burns. Vapors or mist may cause respiratory tract irritation. Harmful or fatal if swallowed. May cause chemical burns.

Delayed and immediate effects and also chronic effects from short- and long-term exposure

Pre-existing skin conditions could be aggravated by repeated exposure. Long term over-exposure can result in dermatitis.

Numerical measures of toxicity

| Components | Test | Species | Test Results |
|-----------------------------------|-----------------------------|---------|--------------|
| Hydrogen peroxide (CAS 7722-84-1) | Oral LD ₅₀ | Rat | 376 mg/kg |
| | Inhalation LC ₅₀ | Rat | 2 mg/l, 4h |

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization

No data available.

Skin sensitization

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

Germ cell mutagenicity

Not a mutagen.

Carcinogenicity

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Reproductive toxicity

No data available.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

No data available.



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12. Ecological information

Numerical measures of toxicity

| Components | Test | Species | Test Results |
|--------------------------------------|------------------|--|------------------|
| Hydrogen peroxide (CAS 7722-84-1) | LC ₅₀ | Fathead minnow (<i>Pimephales promelas</i>) | 16.4 mg/l , 96h |
| | EC ₅₀ | Water flea (<i>Daphnia pulex</i>) | 2.4 mg/l , 48h |
| | EC ₅₀ | Algae (<i>Chlorella vulgaris</i>) | 1.6-5 mg/l , 72h |

| | |
|--------------------------------------|---------------------|
| Persistence and degradability | Rapidly degradable. |
| Bioaccumulative potential | Not established. |
| Mobility in soil | Not established. |
| Other adverse effects | Not established. |

13. Disposal considerations

| | |
|-------------------------------|--|
| Disposal instructions | Diluted spills can be flushed down sewer. Dispose of in accordance with all applicable federal, state and local regulations. |
| Contaminated packaging | Rinse empty containers before disposal; recommended cleaning agent: water. Offer rinsed packaging material to local recycling facilities. Do not reuse empty containers. Dispose of containers that have not been emptied completely and/or cleaned like of substance. |

14. Transport information

DOT

| | |
|-----------------------------------|-------------------------------------|
| UN number | UN 2014 |
| UN proper shipping name | HYDROGEN PEROXIDE, AQUEOUS SOLUTION |
| Transport hazard class(es) | |
| Class | 5.1 |
| Subsidiary risk | 8 |
| Label(s) | 5.1 - Oxidizer 8 - Corrosive |



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Packing group
Environmental hazards
Marine pollutant
Special precautions for user

II

No
Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number
UN proper shipping name
Transport hazard class(es)
Class
Subsidiary risk
Label(s)

UN 2014
Hydrogen peroxide, aqueous solution
5.1
8
5.1 - Oxidizer
8 - Corrosive



Packing group
Environmental hazards
ERG Code
Special precautions for user

II

No
5C
Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number
UN proper shipping name
Transport hazard class(es)
Class
Subsidiary risk
Label(s)

UN 2014
HYDROGEN PEROXIDE, AQUEOUS SOLUTION
5.1
8
5.1 - Oxidizer
8 - Corrosive



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| | |
|---|---|
| Packing group | II |
| Environmental hazards | |
| Marine pollutant | No |
| EmS | F-H, S-Q |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not available. |

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 chemical in this product is listed.

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

Hydrogen peroxide(CAS7722-84-1)

CERCLA Hazardous Substance List (40 CFR 302.4)

None of the chemical in this product is listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

SARA 302/304 Extremely hazardous substance

Hydrogen peroxide(CAS 7722-84-1)

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

This product contains no chemicals subject to reporting.

Other federal regulations

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



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None of the chemical in this product is listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

None of the chemical in this product is listed.

Safe Drinking Water Act (SDWA)

None of the chemical in this product is listed.

US State regulations

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

Hydrogen peroxide(CAS 7722-84-1)

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

Hydrogen peroxide(CAS 7722-84-1)

US. California Proposition 65

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

None of the chemical in this product is listed.

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 | 01-31-2001 |
| Revision date | 08-24-2015 |
| Version # | 01 |

NFPA rating

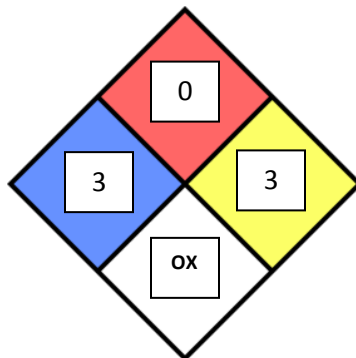


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References

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.



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1. Identification

| | |
|---|--|
| Product identifier | Bleach Solution "A" |
| Other means of identification | |
| SDS number | 01 |
| Synonyms | 17000 |
| 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 98168. |
| 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 | |
| Health hazards | Acute toxicity, oral | Category 4 |
| | Skin corrosion/irritation | Category 1B |
| | Serious eye damage/eye irritation | Category 1 |
| Label elements |  | |
| Signal word | Danger | |
| Hazard statement | Harmful if swallowed. Causes severe skin burns and eye damage. | |
| Precautionary statement | | |
| Prevention | Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust or mist. Wear protective gloves/protective clothing/eye protection/face protection. | |
| Response | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting. Wash | |



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Storage Disposal

Hazard(s) not otherwise classified (HNOC)

contaminated clothing before reuse. IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water/or [shower]. IF INHALED: Remove person to fresh air and Keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
None known.

3. Composition/information on ingredients

Mixture

| Chemical name | CAS number | % |
|---------------------------------|------------|-------|
| Sodium Silicate | 1344-09-8 | 12.47 |
| Sodium Hydroxide (Caustic Soda) | 1310-73-2 | 4.49 |

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. If irritation persists, get medical attention. |
| 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; do not give baking soda or acid antidotes. Get medical attention. |
| Most important symptoms/effects, acute and delayed | Eye contact may cause severe eye damage. Skin contact may cause tissue destruction, chemical burns, rash or redness. Ingestion may cause burning of the mouth and throat, nausea, gastrointestinal irritation or vomiting. |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. |



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General information

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 media
Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and Special firefighting procedures

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do it without risk. Use standard firefighting procedures and consider the hazards of other involved materials.

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. SMALL SPILLS: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

LARGE SPILLS: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following



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product recovery, flush area with water. 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

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Do not reuse container for other purposes.

Conditions for safe storage

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Incompatible materials

Mineral acids, halogenated hydrocarbons, reducing agents and metals like aluminum, tin and zinc.

8. Exposure controls/personal protection

Occupational exposure limits

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

| Components | Type | Value |
|------------------|----------|---------------------|
| Sodium hydroxide | PEL(TWA) | 2 mg/m ³ |

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

| Components | Type | Value |
|------------------|------|---------------------|
| Sodium hydroxide | TWA | 2 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 |
|------------------|--------------|---------------------|
| Sodium hydroxide | TLV(Ceiling) | 2 mg/m ³ |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|------------|------|-------|
|------------|------|-------|



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Sodium hydroxide

Appropriate engineering controls

REL(Ceiling)

2 mg/m³

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

Wear safety goggles.

Skin protection

Hand protection

Wear alkali-resistant rubber or plastic gloves.

Other

Impervious protective clothing if contact is likely. Eyewash station should be available. Local exhaust if vapor will be created.

Respiratory protection

None normally required.

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. 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

Clear, odorless liquid

Physical state

Liquid

Form

Liquid

Color

Clear liquid

Odor

Odorless

Odor threshold

Not available

pH

Not available

Melting point/freezing point

Not available

Initial boiling point and boiling range

212 °F

Flash point

Non-flammable

% Volatile by Volume

87%

Evaporation rate (BuOAc=1)

As water

Maximum Volatile Organic Compound (V.O.C.)

None

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



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| | |
|--|---|
| Explosive limit - upper (%) | Not applicable |
| Vapor pressure (mm Hg) | As water |
| Vapor density (Air=1) | As water |
| Relative density (Specific gravity) | 1.05 |
| Solubility(ies) | |
| Solubility (water) | Soluble |
| Solubility (other) | Soluble in alcohol, acetone, some glycol ethers; insoluble in petroleum hydrocarbons. |
| Partition coefficient (n-octanol/water) | Not available |
| Auto-ignition temperature | Not available |
| 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 | None known. |
| Incompatible materials | Mineral acids, halogenated hydrocarbons, reducing agents and metals like aluminum, tin and zinc. |
| Hazardous decomposition Products | None known. |

11. Toxicological information

Information on likely routes of exposure

| | |
|--|---|
| Ingestion | May cause burning of the mouth and throat, nausea, gastrointestinal irritation or vomiting. |
| Inhalation | Vapors or mist may cause irritation of mucous membranes. |
| Skin contact | May cause tissue destruction, chemical burns, rash or redness. |
| Eye contact | Brief contact may cause severe eye damage. Prolonged contact may cause permanent eye damage which can lead to blindness. |
| Symptoms related to the physical, chemical and toxicological characteristics | Severe eye damage and blindness. Tissue destruction, chemical burns, rash or redness of skin. Irritation of mucous membranes. Burning of the mouth and throat, 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. Pre-existing skin conditions could be aggravated by repeated exposure. |



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Numerical measures of toxicity

| Components | Test | Species | Test Results |
|-------------------------------------|-------------------------|---------|--------------|
| Sodium Hydroxide (CAS 1310-73-2) | Dermal LD ₅₀ | Rabbit | 1350 mg/kg |
| Sodium Silicate (CAS 1344-09-8) | Oral LD ₅₀ | Rat | 1960 mg/kg |
| | Dermal LD ₅₀ | Rabbit | >4640 mg/kg |

| | |
|---|--|
| Skin corrosion/irritation | Causes severe skin burns and eye damage. |
| Serious eye damage/eye irritation | Causes serious eye damage. |
| Respiratory or skin sensitization | |
| Respiratory sensitization | No data available. |
| Skin sensitization | No data available. |
| Germ cell mutagenicity | Not a mutagen. |
| Carcinogenicity | This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP. |
| Reproductive toxicity | No data available. |
| Specific target organ toxicity - single exposure | Based on available data, the classification criteria are not met. |
| Specific target organ toxicity - repeated exposure | No data available. |
| Aspiration hazard | No data available. |

12. Ecological information

Numerical measures of toxicity

| Components | Test | Species | Test Results |
|-------------------------------------|------------------|---|----------------|
| Sodium Hydroxide (CAS 1310-73-2) | LC ₅₀ | Rainbow trout (<i>Oncorhynchus mykiss</i>) | 45.4 mg/l, 96h |
| | EC ₅₀ | Water flea (<i>Ceriodaphnia sp.</i>) | 40.4 mg/l, 48h |
| Sodium Silicate (CAS 1344-09-8) | LC ₅₀ | Zebra fish (<i>Danio rerio</i>) | 1108 mg/l, 96h |
| | EC ₅₀ | Water flea (<i>Daphnia magna</i>) | 1700 mg/l, 48h |
| | EC ₅₀ | Algae (<i>Scenedesmus subspicatus</i>) | 207 mg/l, 72h |

| | |
|--------------------------------------|---------------------------|
| Persistence and degradability | No information available. |
| Bioaccumulative potential | No information available. |
| Mobility in soil | No information available. |



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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

DOT

| | |
|------------------------------|---|
| UN number | UN 1824 |
| UN proper shipping name | SODIUM HYDROXIDE SOLUTION |
| Transport hazard class(es) | |
| Class | 8 |
| Packing group | II |
| Environmental hazards | |
| Marine pollutant | No |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |

IATA

| | |
|----------------------------|---------------------------|
| UN number | UN 1824 |
| UN proper shipping name | SODIUM HYDROXIDE SOLUTION |
| Transport hazard class(es) | |
| Class | 8 |
| Label(s) | |



| | |
|-----------------------|----|
| Packing group | II |
| Environmental hazards | No |
| ERG Code | 8L |




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| | |
|---|---|
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| IMDG | |
| UN number | UN 1824 |
| UN proper shipping name | SODIUM HYDROXIDE SOLUTION |
| Transport hazard class(es) | |
| Class | 8 |
| Label(s) |  |
| Packing group | II |
| Environmental hazards | |
| Marine pollutant | No |
| EmS | F-A, S-B |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not available. |

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 regulated.

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

None of the chemicals in this product is listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium Hydroxide (CAS 1310-73-2)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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



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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)

This product contains no chemicals subject to reporting.

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)

None of the chemicals in this product is listed.

US State regulations

US. Massachusetts RTK – Substance List

Sodium Hydroxide (CAS 1310-73-2)

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

Sodium Hydroxide (CAS 1310-73-2)

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

Sodium Hydroxide (CAS 1310-73-2)

US. California Proposition 65

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

None of the chemicals in this product is listed.

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non- Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | Yes |
| | Inventory of Existing and New Chemical Substances (ENCS) | Yes |
| Japan | Existing Chemical List (ECL) | Yes |
| Korea | New Zealand Inventory | Yes |
| New Zealand | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| Philippines | | |



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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

01-31-2001

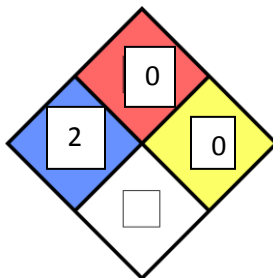
Revision date

08-21-2015

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.