



SAFETY DATA SHEET

BLEACH SOLUTION "A"

Revised Date: 08-22-2015

Supersedes: 01-31-2001

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



SAFETY DATA SHEET

BLEACH SOLUTION "A"

Revised Date: 08-22-2015

Supersedes: 01-31-2001

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.



SAFETY DATA SHEET

BLEACH SOLUTION "A"

Revised Date: 08-22-2015

Supersedes: 01-31-2001

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



SAFETY DATA SHEET

BLEACH SOLUTION "A"

Revised Date: 08-22-2015

Supersedes: 01-31-2001

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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SAFETY DATA SHEET

BLEACH SOLUTION "A"

Revised Date: 08-22-2015

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Sodium hydroxide	REL(Ceiling)	2 mg/m ³
Appropriate engineering controls	Provide adequate general and local exhaust ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	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



SAFETY DATA SHEET

BLEACH SOLUTION "A"

Revised Date: 08-22-2015

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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.



SAFETY DATA SHEET

BLEACH SOLUTION "A"

Revised Date: 08-22-2015

Supersedes: 01-31-2001

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.



SAFETY DATA SHEET

BLEACH SOLUTION "A"

Revised Date: 08-22-2015

Supersedes: 01-31-2001

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



SAFETY DATA SHEET

BLEACH SOLUTION "A"

Revised Date: 08-22-2015

Supersedes: 01-31-2001

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



SAFETY DATA SHEET

BLEACH SOLUTION "A"

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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
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemical List (ECL)	Yes
New Zealand	New Zealand Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes



SAFETY DATA SHEET

BLEACH SOLUTION "A"

Revised Date: 08-22-2015

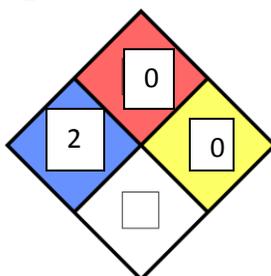
Supersedes: 01-31-2001

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.