





# SAFETY DATA SHEET

## DALY'S DECK & HOUSE CLEANER

Revised Date: 11-17-2015

Supersedes: 10-27-2000

**Storage**  
**Disposal**

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.

**Hazard(s) not otherwise classified (HNOC)**

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	CAS number	%
Sodium hypochlorite	7681-52-9	18.20
Sodium metasilicate	6834-92-0	3.64
Sodium carbonate	497-19-8	1.82
Sodium tripolyphosphate	7758-29-4	1.82
Benzenesulfonic Acid, Decyl(sulfophenoxy)-, Disodium Salt	36445-71-3	1.62
Caustic soda	1310-73-2	1
Benzenesulfonic Acid, Oxybis[decyl]-, Disodium Salt	70146-13-3	0.4
2-butoxyethanol	111-76-2	0.36
Polysiloxane, Polyalkylene, Copolymer	64365-23-7	0.02

### 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 (redness, irritation). 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. Inhalation



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### Indication of immediate medical attention and special treatment needed

of mist or vapors may cause irritation of mucous membrane.

### General information

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. 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

Non-flammable.

### Unsuitable extinguishing media

None known.

### Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed possibly chlorine.

### 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. Cover with plastic sheet to prevent spreading. Absorb in



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vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following 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** Reducing agents and metals such as 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
Caustic soda	PEL(TWA)	2 mg/m <sup>3</sup>
2-butoxyethanol	PEL(TWA)	240 mg/m <sup>3</sup>

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

Components	Type	Value
Caustic soda	TWA	2 mg/m <sup>3</sup>
2-butoxyethanol	TWA	240 mg/m <sup>3</sup>

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

None of the components in this product is listed.

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

None of the components in this product is listed.

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Caustic soda	TLV(Ceiling)	2 mg/m <sup>3</sup>
2-butoxyethanol	TLV(TWA)	20 ppm



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### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Caustic soda	REL(Ceiling)	2 mg/m <sup>3</sup>
2-butoxyethanol	REL(TWA)	24 mg/m <sup>3</sup>
<b>Appropriate engineering controls</b>	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

<b>Eye/face protection</b>	Wear safety goggles or face shield.
<b>Skin protection</b>	
<b>Hand protection</b>	Wear alkali-resistant rubber or plastic gloves.
<b>Other</b>	Impervious protective clothing if contact is likely. Eyewash station should be available. Local exhaust if vapor will be created.
<b>Respiratory protection</b>	None normally required. Avoid breathing mist, if sprayed.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	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

<b>Appearance</b>	Clear liquid
<b>Physical state</b>	Liquid
<b>Form</b>	Liquid
<b>Color</b>	Clear liquid
<b>Odor</b>	Slight chlorine odor
<b>Odor threshold</b>	Not available
<b>pH</b>	Not available
<b>Melting point/freezing point</b>	Not available
<b>Initial boiling point and boiling range</b>	212 °F
<b>Flash point</b>	Non-flammable
<b>% Volatile by Volume</b>	80-85%
<b>Evaporation rate (BuOAc=1)</b>	As water
<b>Maximum Volatile Organic Compound (V.O.C.)</b>	None
<b>Flammability (solid, gas)</b>	Non-flammable
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower (%)</b>	Not applicable
<b>Flammability limit – upper (%)</b>	Not applicable



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<b>Explosive limit - lower (%)</b>	Not applicable
<b>Explosive limit - upper (%)</b>	Not applicable
<b>Vapor pressure (mm Hg)</b>	125mm Hg@77 °F
<b>Vapor density (Air=1)</b>	0.9
<b>Relative density (Specific gravity)</b>	1.1
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Soluble
<b>Solubility (other)</b>	Soluble in alcohol, acetone, some glycol ethers; insoluble in petroleum hydrocarbons.
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>Viscosity</b>	Not available

### 10. Stability and reactivity

<b>Reactivity</b>	Hazardous reactions will not occur under normal conditions.
<b>Chemical stability</b>	Stable under recommended handling and storage conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization will not occur.
<b>Conditions to avoid</b>	None known.
<b>Incompatible materials</b>	Reducing agents and metals such as aluminum, tin, and zinc.
<b>Hazardous decomposition Products</b>	Possible chlorine.

### 11. Toxicological information

<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	May cause burning of the mouth and throat, nausea, gastrointestinal irritation or vomiting.
<b>Inhalation</b>	Vapors or mist may cause irritation of mucous membranes.
<b>Skin contact</b>	May cause tissue destruction, chemical burns, rash or redness.
<b>Eye contact</b>	Brief contact may cause severe eye damage. Prolonged contact may cause permanent eye damage which can lead to blindness.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Severe eye damage (redness, irritation) 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.
<b>Delayed and immediate effects and also chronic effects from short- and long-term exposure</b>	No adverse long term affects 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 hypochlorite (CAS 7681-52-9)	Oral LD <sub>50</sub>	Rat	8.91 g/kg
	Dermal LD <sub>50</sub>	Rabbit	> 20000 mg/kg
	Inhalation LC <sub>50</sub>	Rat	> 10.5 mg/l, 1h
Sodium metasilicate (CAS 6834-92-0)	Oral LD <sub>50</sub>	Rat	1153 mg/kg
Sodium carbonate (CAS 497-19-8)	Oral LD <sub>50</sub>	Rat	2800 mg/kg
	Dermal LD <sub>50</sub>	Rabbit	>2,000 mg/kg
	Inhalation LC <sub>50</sub>	Rat	1.15 mg/l, 4h
Sodium tripolyphosphate (CAS 7758-29-4)	Oral LD <sub>50</sub>	Rat	3120 mg/kg
	Dermal LD <sub>50</sub>	Rabbit	>4640 mg/kg
	Inhalation LC <sub>50</sub>	Rat	> 0.39 mg/l, 4h
Benzenesulfonic Acid, Decyl(sulfophenoxy)-, Disodium Salt (CAS 36445-71-3)	Oral LD <sub>50</sub>	Rat	>2000 mg/kg
	Dermal LD <sub>50</sub>	Rabbit	1350 mg/kg
	Inhalation LC <sub>50</sub>	Rat	2.17 mg/l, 4h
Caustic soda (CAS 1310-73-2)	Dermal LD <sub>50</sub>	Rabbit	1350 mg/kg
2-butoxyethanol (CAS 111-76-2)	Oral LD <sub>50</sub>	Rat	470 mg/kg
	Dermal LD <sub>50</sub>	Rabbit	220 mg/kg
	Inhalation LC <sub>50</sub>	Rat	2.17 mg/l, 4h

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



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### 12. Ecological information

#### Numerical measures of toxicity

Components	Test	Species	Test Results
Sodium Hypochlorite (CAS 7681-52-9)	LC <sub>50</sub>	Pacific herring ( <i>Clupea pallasii</i> )	0.065 mg/l, 96 h
	EC <sub>50</sub>	Water flea ( <i>Daphnia magna</i> )	0.032 mg/l, 48h
	EC <sub>50</sub>	Red algae ( <i>Gracilaria tenuistipitata</i> )	46 mg/l, 96h
Sodium metasilicate (CAS 6834-92-0)	LC <sub>50</sub>	Mosquitofish ( <i>Gambusia affinis</i> )	2320 mg/l, 96h
Caustic soda (CAS 1310-73-2)	LC <sub>50</sub>	Rainbow trout ( <i>Oncorhynchus mykiss</i> )	45.4 mg/l, 96h
	EC <sub>50</sub>	Water flea ( <i>Ceriodaphnia sp.</i> )	40.4 mg/l, 48h

#### Persistence and degradability

No information available.

#### Bioaccumulative potential

No information available.

#### Mobility in soil

No information available.

#### Other adverse effects

No information available.

### 13. Disposal considerations

#### Disposal instructions

Dispose in accordance with all applicable federal, state and local regulations. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container; dispose of this material and its container in a safe way.

#### Contaminated packaging

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

### 14. Transport information

#### DOT

UN number	UN 1791
UN proper shipping name	HYPOCHLORITE SOLUTION
Transport hazard class(es)	
Class	8
Subsidiary risk	-





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**Label(s)**

8 - Corrosive



**Packing group**  
**Environmental hazards**  
**Marine pollutant**  
**Special precautions for user**

III  
 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 1791  
 HYPOCHLORITE SOLUTION  
 8  
 -  
 8 - Corrosive



**Packing group**  
**Environmental hazards**  
**ERG Code**  
**Special precautions for user**

III  
 Yes  
 8L  
 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 1791  
 HYPOCHLORITE SOLUTION  
 8  
 -  
 8 - Corrosive



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<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No
<b>EmS</b>	F-A, S-B
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	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)**

Caustic soda (CAS 1310-73-2)	Listed
2-butoxyethanol (CAS 111-76-2)	Listed

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Sodium hypochlorite (CAS 7681-52-9)	Listed
Caustic soda (CAS 1310-73-2)	Listed

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard categories</b>	Immediate Hazard	-	Yes
	Delayed Hazard	-	No
	Fire Hazard	-	No
	Pressure Hazard	-	No
	Reactivity Hazard	-	No

**SARA 302/304 Extremely hazardous substance**

None of the chemicals in this product is listed.

**SARA 311/312 Hazardous chemical** Yes

**SARA 313 (TRI reporting)**

None of the chemicals in this product is listed.



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

Sodium hypochlorite (CAS 7681-52-9)

Caustic soda (CAS 1310-73-2)

2-butoxyethanol (CAS 111-76-2)

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

Sodium hypochlorite (CAS 7681-52-9)

Sodium tripolyphosphate (CAS 7758-29-4)

Caustic soda (CAS 1310-73-2)

2-butoxyethanol (CAS 111-76-2)

**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)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non- Domestic Substances List (NDSL)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

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

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

Issue date	10-27-2000
Revision date	11-17-2015
Version #	01



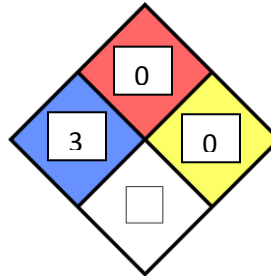
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### NFPA rating



### 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.