

Duro-Last[®] Surface Disinfectant

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION
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Product Name: Duro-Last[®] Surface Disinfectant
Version: 1
Identifier 1: EPA 148-628
Identifier 2: Sodium Hypochlorite
Product Type: Liquid Mixture
Product Use: Disinfectant, cleaning, and sanitizing solution.

Company Information: Duro-Last[®], Inc.
 525 W Morley Dr.
 Saginaw, MI 48601
 Phone: (800) 248-0280
 Internet Address: www.duro-last.com

24 Hour Emergency Contact: INFOTRAC
 1-800-535-5053 (US & Canada)
 1-352-323-3500 (International)

SECTION 2	HAZARD(S) IDENTIFICATION
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OSHA/HCS Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazard Classification: **Health Hazards**
 Skin Corrosion/Irritation, Category 1
 Serious Eye Damage/Eye Irritation, Category 1

Pictogram(s):



Signal Word: DANGER

Hazard Statements: H314 - Causes severe skin burns.
 H318 - Causes serious eye damage.

Precautionary Statements: **Prevention**
 P264 - Wash face, hands and any exposed skin thoroughly after handling.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response
 P301+P330 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P303+P361 - IF ON SKIN (or hair): immediately take off all contaminated clothing. Rinse skin with water/shower.
 P304+P340 - IF INHALED: move victim to fresh air and keep at rest in a position comfortable for breathing.

- P305+P351+P338 - IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
- P310 - Immediately call a POISON CENTER or doctor/physician.
- P321 - Specific treatment (see supplemental first aid instructions on this label).
- P363 - Wash contaminated clothing before reuse.

Storage

- P405 - Store locked up.

Disposal

- P501 - Dispose of contents/container in accordance with all applicable federal, state, and local regulations.

Additional Optional Hazards:

Environmental Hazard:

Chronic Aquatic Toxicity, Category 1

Hazard Statement:

H410: Very toxic to aquatic life with long lasting effects.



Hazards Not Otherwise Classified (HNOC)

Although not expected, heart conditions or chronic respiratory problems such as asthma, chronic bronchitis, or obstructive lung disease may be aggravated by exposure to high concentrations of vapor or mists.

Product contains a strong oxidizer. Always flush drains before and after use.

Reacts with other household chemicals such as toilet bowl cleaners, rust removers, acids, or products containing ammonia to produce hazardous irritating gases, such as chlorine and other chlorinated compounds.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients

Chemical Name	CAS Number	Concentration (%)
Sodium Hypochlorite	7681-52-9	<5.00

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, that are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4 FIRST-AID MEASURES

Eye Contact: Immediately flush eye(s) with plenty of water, occasionally lifting the upper and lower eyelids and continue to rinse for at least 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Contact a physician or a poison control center for treatment advice.

Inhalation: Move to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing is affected.

Skin Contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Contact a physician or a poison control center for treatment advice.

Ingestion: Wash out mouth with water. Remove dentures if any. Move victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do NOT induce vomiting unless directed

to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Never give anything by mouth to an unconscious person. If unconscious, place in recover position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband.

Most Important Symptoms and Effects, Both Acute and Delayed:

Burning of eyes and skin.

Protection of First-Aiders:

No action shall be taken involving any personal risk or without suitable training. Avoid contact with skin, eyes, and clothing. Use personal protective equipment as required (see Section 8). Show this Safety Data Sheet to the doctor in attendance.

Notes to Physician:

Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. See toxicological information (Section 11).

SECTION 5

FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media:

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific Precautionary Methods:

In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer, or drain.

Hazardous Thermal Decomposition Products:

This product causes burns to eyes, skin, and mucous membranes. Thermal decomposition products may include the following materials:
Sodium Chlorate
Irritating Gases and Vapors

Special Protective Actions for Fire-Fighters:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special Protective Equipment For Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) pressure-demand, MSHA/NIOSH (approved or equivalent).

SECTION 6

ACCIDENTAL RELEASE MEASURES

For Non-Emergency Personnel:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation. Use personal protective equipment as required.

For Emergency Responders:

For spills or multiple products, responders should evaluate the SDS of the products for incompatibility with Sodium Hypochlorite. Breathing protection should be worn in enclosed and/or poorly-ventilated areas until hazard assessment is complete. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in “For Non-Emergency Personnel”.

Environmental Precautions: This product is toxic to fish, aquatic invertebrates, oysters, and shrimp. Do not allow spilled material and runoff to have contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air). See Section 12 for Ecological Information.

Cleanup: Stop further leakage or spillage if safe to do so. Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.

Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1940.120).

SECTION 7 HANDLING AND STORAGE

Handling Precautions: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, and clothing. Do not eat, drink, or smoke when using this product.

Storage Requirements: Store in accordance with federal, state, and local regulations. Store this product upright in a cool, dry area, away from direct sunlight and heat to avoid deterioration. Do not contaminate food or feed by storage of this product. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	Basis	Value	Exposure Limit(s)* / Form of Exposure
Sodium Hypochlorite	ACGIH	TLV	N/A
	OSHA	PEL	N/A

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this Safety Data Sheet.

Engineering Measures: If user operations generate fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Use showers and eyewash stations when necessary.

Environmental Exposure Controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Do not wear product-contaminated clothing for prolonged periods. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment: **Respiratory Protection**
If irritation is experienced, NIOSH/MSHA approved respiratory protection shall be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hand Protection
Rubber or neoprene gloves should be worn. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties.

Eye/Face Protection

If splashes are likely to occur, safety glasses with side shields, goggles, or a face shield should be worn.

Skin and Body Protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

SECTION 9**PHYSICAL AND CHEMICAL PROPERTIES**

Physical State:	Thin Liquid	Flammability:	N/A
Color:	Pale Yellow	Explosive Limits:	N/A
Odor:	Bleach	Vapor Pressure:	N/A
Odor Threshold:	N/A	Vapor Density:	N/A
pH:	12	Relative Density:	N/A
Melting Point:	N/A	Solubility:	100%
Freezing Point:	N/A	Specific Gravity:	1.1
Boiling Point/Range:	N/A	Decomposition Temp:	N/A
Flash Point:	N/A	Viscosity:	N/A
Evaporation Rate:	N/A	VOC Content:	N/A

SECTION 10**STABILITY AND REACTIVITY**

Reactivity:	Reacts with other household chemicals such as toilet bowl cleaners, rust removers, acids, or products containing ammonia to produce hazardous irritating gases, such as chlorine and other chlorinated compounds.
Chemical Stability:	The product is chemically stable.
Possibility of Hazardous Reactions:	Stable under recommended storage conditions.
Conditions to Avoid:	No specific data.
Incompatible Materials:	Toilet bowl cleaners, rust removers, acids, or products containing ammonia.
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11**TOXICOLOGICAL INFORMATION****Acute Toxicity**

Ingredient Name	Result	Species	Dose/Exposure
Sodium Hypochlorite	LD ₅₀ Dermal	Rabbit	>10,000 mg/kg
	LD ₅₀ Oral	Rat	8,200 mg/kg

Irritation:**Inhalation**

Exposure to vapor or mist may irritate respiratory tract and cause coughing. Inhalation of high concentrations may cause pulmonary edema.

Eye Contact

Corrosive. May cause severe damage to eyes. May cause redness and tearing of the eyes. May cause burns to eyes.

Skin Contact

May cause severe irritation to skin. Prolonged contact may cause burns to skin.

Ingestion

May cause burns to gastrointestinal tract and respiratory tract, nausea, vomiting, and diarrhea.

Carcinogenicity:

Ingredient Name	OSHA	IARC	NTP
Sodium Hypochlorite	-	Group 3	-

Not classifiable as to carcinogenicity in humans.

Specific Target Organ Toxicity:

Chronic
Carcinogenic potential is unknown.

Target Organ Effects

Respiratory system, eyes, skin, gastrointestinal tract (GI).

Numerical Measures of Toxicity

ATEmix (oral): 54 g/kg

ATEmix (inhalation-dust/mist): 58 mg/L

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity:

Very toxic to aquatic life with long lasting effects. This product is toxic to fish, aquatic invertebrates, oysters, and shrimp. Do not allow product to enter storm drains, lakes, or streams.

Bioaccumulation:

No information available.

Other Adverse Effects:

No information available.

SECTION 13

DISPOSAL CONSIDERATIONS

Disposal Methods:

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. This material and its container must be disposed of in accordance with all applicable federal, state, and local regulations. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Do not reuse empty containers. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14

TRANSPORT INFORMATION

	DOT Classification	IMDG	IATA
UN Number	Not Regulated	Not Regulated	Not Regulated
UN Proper Shipping Name	-	-	-
Transport Hazard Class	-	-	-
Packing Group	-	-	-
Environmental Hazards	-	-	-

Special Precautions for User: **Transport within user’s premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15	REGULATORY INFORMATION
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TSCA Inventory: All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing.

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories:
 Acute Health Hazard: Yes
 Chronic Health Hazard: No
 Fire Hazard: No
 Sudden Release of Pressure Hazard: No
 Reactive Hazard: No

Clean Water Act:
 This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Ingredient Name	Reportable Quantities	Toxic Pollutants	Hazardous Substances
Sodium Hypochlorite	100 lb	-	X

CERCLA
 This material, as supplied, contains one or more substances regulated as hazardous substance under the Comprehensive Environment Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Ingredient Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium Hypochlorite	100 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ

EPA Statement: This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

DANGER: CORROSIVE. Causes irreversible eye damage and skin burns. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wear protective eyewear and rubber gloves when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the restroom. Avoid breathing vapors and use only in a well-ventilated area.

State Regulations:

State	Listed Component(s)
Massachusetts	Sodium Hypochlorite, Sodium Chlorate
New Jersey	Sodium Hypochlorite, Sodium Chlorate
Pennsylvania	Sodium Hypochlorite, Sodium Chlorate
Rhode Island	Sodium Hypochlorite

California Prop 65: This product does not contain a chemical known to the State of California to cause cancer or reproductive harm. For more information, go to www.P65Warnings.ca.gov.

SECTION 16

OTHER INFORMATION

	NFPA	HMIS
Health Hazard	3	3
Flammability	0	0
Instability	0	-
Physical/Chemical Hazards	-	0
Personal Protection	-	B

Previous Editions: First Published: 05/05/2020

Further Information: This SDS was prepared in accordance with OSHA regulatory standards for Toxic and Hazardous Substances: 29 CFR 1910.1200.

Disclaimer: To the best of our knowledge, the information contained herein is accurate. However Duro-Last®, Inc. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be handled with care. Although Duro-Last®, Inc. has described herein all of the hazards to which we are currently aware; we cannot guarantee that these are the only hazards which exist.