



Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS HCS 2012

Trade name: Dairyland Brand Hypo-Chlor 6.40

1 Identification of the substance/mixture and of the company/undertaking

• **1.1 Product identifier**

• **Trade name:** Dairyland Brand Hypo-Chlor 6.40 ST-1, ST-70, ST-2047

• **Article number:** SM50 EPA REG. NO. 3640-64

• **1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

• **Application of the substance / the preparation** Laundry bleach

Product dilution information:

600 ppm	6 oz. to 4 gal. water.	Sanitation of Porous Food Contact Surfaces.
200 ppm	2 oz. to 4 gal. water.	Food Egg Sanitation.
100 ppm	1 oz. to 4 gal. water.	Sanitation of Non-Porous Food Contact Surfaces. Minimum 2 Minute Contact Time Required.

• **1.3 Details of the supplier of the Safety Data Sheet**

• **Manufacturer/Supplier:**

Stearns Packaging Corporation
4200 Sycamore Avenue (53714)
PO Box 3216
Madison, WI 53704-0216
Phone: 800-655-5008
Fax: 1-608-246-5149
Email: stearns@stearnspkg.com
Website: www.stearnspkg.com


• **1.4 Emergency telephone number:**

ChemTel Inc.
(800)255-3924, +1 (813)248-0585

2 Hazards identification

• **2.1 Classification of the substance or mixture**

• **Classification according to Regulation (EC) No 1272/2008**

Product as SOLD			Product at USE DILUTION
	GHS05		Not classified.
Skin Corr. Irrit. 1C	H314	Causes severe skin burns and eye damage.	Not classified.
Eye Dam. 1	H318	Causes serious eye damage.	Not classified.

• **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

• **Classification system:**

The classification is according to the latest editions of the EU-lists and extended by company and literature data.


The classification is in accordance with the latest editions of international substances lists and is supplemented by information from technical literature and by information provided by the company.

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• 2.2 Label elements	
Product as SOLD	Product at USE DILUTION
• Labeling according to Regulation (EC) No 1272/2008	
The product is classified and labeled according to the CLP regulation.	The mixture does not meet the criteria for classification.
• Hazard pictograms	
 GHS05	None
• Signal word Danger	None
• Hazard-determining components of labeling:	
sodium hypochlorite	Not applicable.
• Hazard statements	
H314 Causes severe skin burns and eye damage H318 Causes serious eye damage.	Avoid contact with eyes.
• Precautionary statements	
P262 Do not get in eyes, on skin, or on clothing. P280 Wear protective gloves/protective clothing / eye protection. P264 Wash hands thoroughly after handling. P260 Do not breathe vapors or mists. Mix only with water. Do not mix with acids, toilet cleaners, ammonia or any other chemical. Can react to release chlorine gas. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P303+P361+P353+P363: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. P332+P313 If skin irritation occurs: Get medical advice/attention. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P304+P340: IF INHALED: Remove victim to fresh air and keep comfortable for breathing. P310: Immediately call a POISON CENTER or doctor. P405: Store locked up. P501 Dispose of contents/container in accordance with local regulations.	Wear protective eyewear if eye contact is possible.

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3 Composition/information on ingredients

• 3.2 Mixtures

• **Description:** Mixture of substances listed below with nonhazardous additions.

• Dangerous components:

CAS: 7681-52-9	Sodium Hypochlorite  C R34, R41  Skin Corr. 1C, H314; Eye Dam. 1, H318	6.4%
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• **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

• 4.1 Description of first aid measures

Product as SOLD	Product at USE DILUTION
<p>• After inhalation: Remove victim to fresh air and keep comfortable for breathing.</p> <p>• After skin contact: Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.</p> <p>• After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.</p> <p>• After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.</p>	<p>No special measures required. Treat symptomatically.</p> <p>No known effect after skin contact. Rinse with water for a few minutes.</p> <p>No known effect after eye contact. Rinse with water for a few minutes. If irritation persists, get medical attention.</p> <p>Get medical attention if symptoms occur.</p>
<p>• 4.2 Most important symptoms and effects both acute and delayed Strong irritant with the danger of severe eye injury. Irritant to skin and mucous membranes. Gastric or intestinal disorders. Gastric or intestinal disorders.</p>	No known effects.
<p>• Hazards Danger of severe eye injury.</p>	No known effects.
<p>• 4.3 Indication of any immediate medical attention and special treatment needed</p>	
No further relevant information available.	No further relevant information available.

5 Fire-fighting measures

• 5.1 Extinguishing media

• **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

• **For safety reasons unsuitable extinguishing agents:** None.

• 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

• 5.3 Advice for firefighters

• Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

• **Additional information** No further relevant information available.

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6 Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures

Product as SOLD	Product at USE DILUTION
Wear protective equipment. Keep unprotected persons away. Use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation	Use personal protective equipment as required.

• 6.2 Environmental precautions:

Dilute with plenty of water.	Dilute with plenty of water.
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• 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles. Clean the affected area carefully; suitable cleaners are: Warm water	Large Spills: Flush area with water. Prevent entry into waterways. Small Spills: Wipe up with absorbent material.
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• 6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
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7 Handling and storage

• 7.1 Precautions for safe handling

Product as SOLD	Product at USE DILUTION
Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.	Wash hands thoroughly after handling.

• Information about fire - and explosion protection:

No special measures required.	No precautions necessary.
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• 7.2 Conditions for safe storage, including any incompatibilities

• Storage:

• Requirements to be met by storerooms and receptacles:

Avoid storage near extreme heat, ignition sources or open flame. Unsuitable material for receptacle: aluminium.	Avoid storage near extreme heat, ignition sources or open flame. Unsuitable material for receptacle: aluminium.
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• Information about storage in one common storage facility:

Store away from foodstuffs. Store away from oxidizing agents.	Store away from foodstuffs. Store away from oxidizing agents.
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• Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.	No storage precautions necessary.
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• 7.3 Specific end use(s)

No further relevant information available.	
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8 Exposure controls/personal protection

• **Additional information about design of technical facilities:** No further data; see item 7.

Product as SOLD

Product at USE DILUTION

• 8.1 Control parameters

• **Ingredients with limit values that require monitoring at the workplace:**

Sodium hypochlorite = 0.5 PPM TWA as chlorine, 1 PPM STEL as chlorine (ACGIH), 1 PPM ceiling limit as chlorine (OSHA).

Not applicable.

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.

• 8.2 Exposure controls

• **Personal protective equipment:**

• **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

• **Respiratory protection:**

Not necessary if room is well-ventilated.
Use suitable respiratory protective device when high concentrations are present.
For spills, respiratory protection may be advisable.
NIOSH approved organic vapor respirator equipped with a dust/mist prefilter should be used.

Not necessary if room is well-ventilated.
Use suitable respiratory protective device when high concentrations are present.
For spills, respiratory protection may be advisable.
NIOSH approved organic vapor respirator equipped with a dust/mist prefilter should be used.

• **Protection of hands:**

Avoid direct contact with the chemical/ the product/ the preparation by organizational measures. Use gloves constructed of chemical resistant material such as heavy nitrile rubber.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

No protective equipment is needed under normal conditions.

• **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

No protective equipment is needed under normal conditions.


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Product as SOLD	Product at USE DILUTION
• Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.	
	No protective equipment is needed under normal conditions.
• For the permanent contact gloves made of the following materials are suitable: Rubber gloves	
• Eye protection: Contact lenses should not be worn.  Tightly sealed goggles	
	Wear protective eyewear of contact is possible.
• Body protection: Chemical resistant work clothing if major exposure is possible.	
	No protective equipment is needed under normal conditions.
• Limitation and supervision of exposure into the environment No further relevant information available.	
	No further relevant information available.
• Risk management measures See Section 7 for additional information. No further relevant information available.	
	See Section 7 for additional information. No further relevant information available.

9 Physical and chemical properties

	Product as SOLD	Product at USE DILUTION
• 9.1 Information on basic physical and chemical properties		
• General Information		
• Appearance: Form: Liquid Color: Light yellow Odor: Chlorine Odor threshold: Not determined.		
		Liquid Clear Chlorine Not determined.
• pH-value at 25 °C:	12.4 - 13.0	
• Change in condition Melting point/Melting range: Undetermined. Boiling point/Boiling range: >212 °F / 100 °C		
		Undetermined. >212 °F / 100 °C
• Flash point:	> 100 °C Product does not support combustion.	Not available
• Flammability (solid, gaseous):	Not applicable.	Not applicable.
• Ignition temperature:	Not determined.	Not determined.
• Decomposition temperature:	Not determined.	Not determined.
• Self-igniting:	Product is not self-igniting.	Product is not self-igniting.
• Danger of explosion:	Product does not present an explosion hazard.	Product does not present an explosion hazard.

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	Product as SOLD	Product at USE DILUTION
• Explosion limits: Lower: Upper:	Not determined. Not determined.	Not determined. Not determined.
• Vapor pressure at 20 °C:	Not determined.	Not determined.
• Density at 20 °C: • Relative density • Vapor density • Evaporation rate	1.1 g/cm ³ Not determined. Not determined. Not determined.	Not determined. Not determined. Not determined. Not determined.
• Solubility in / Miscibility with water:	Fully miscible.	Complete
• Partition coefficient (n-octanol/water):	Not determined.	Not determined.
• Viscosity: Dynamic at 20 °C: Kinematic:	Not determined. Not determined.	Not determined. Not determined.
• 9.2 Other information	No further relevant information available.	No further relevant information available.

10 Stability and reactivity

- **10.1 Reactivity** Not determined.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
Avoid exposure to light and temperatures above 120 °F.
- **10.3 Possibility of hazardous reactions**
Chlorine and other toxic or irritating fumes.
- **10.4 Conditions to avoid:** Avoid exposure to light and temperatures above 120 °F.
- **10.5 Incompatible materials:** Avoid mixing directly with any other chemical. Avoid acids, ammonia and various metals, which can generate hydrogen gas. Mix only with water.

11 Toxicological information

• 11.1 Information on toxicological effects	
Product as SOLD	Product at USE DILUTION
• Acute toxicity: 5,230 mg/kg Oral, Rat	Non-toxic at use-dilution.
• Primary irritant effect:	
• on the skin: causes severe skin burns. • on the eye: Causes severe eye damage. May cause permanent damage including blindness without immediate first aid treatment. • if inhaled: May cause corrosive effects to nose, throat, and respiratory system. • on ingested: Causes burns and serious damage to mouth, throat and stomach. • Sensitization: No sensitizing effects known.	No adverse effects due to skin contact are expected. Direct contact with eyes may cause temporary irritation.

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Product as SOLD	Product at USE DILUTION
• Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:	
Corrosive	Not classified

12 Ecological information

• 12.1 Toxicity

• Aquatic toxicity:

Product as SOLD	Product at USE DILUTION
The product contains materials that are harmful to the environment.	No data available.

• **12.2 Persistence and degradability** The product is biodegradable. Significant residuals remain.

• **12.3 Bioaccumulative potential** No further relevant information available.

• **12.4 Mobility in soil** No further relevant information available.

• Ecotoxicological effects:

• **Remark:** After neutralization toxicity cannot be recognized anylonger.

Non-toxic at use dilution.

• Additional ecological information:

• 12.5 Results of PBT and vPvB assessment

• **PBT:** Not applicable.

Not applicable.

• **vPvB:** Not applicable.

Not applicable.

• **12.6 Other adverse effects** No further relevant information available.

No further relevant information available.

13 Disposal considerations

• 13.1 Waste treatment methods

Product as SOLD	Product at USE DILUTION
• Recommendation Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.	
	Diluted product can be flushed to sanitary sewer. Discard empty container in trash.
• Uncleaned packaging: • Recommendation: Disposal must be made according to local regulations.	
	Not applicable.
• Recommended cleansing agents: Water, if necessary together with cleansing agents.	Not applicable.

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14 Transport information

<ul style="list-style-type: none"> • 14.1 UN-Number • DOT, ADR, ADN, IMDG, IATA 	UN1791
<ul style="list-style-type: none"> • 14.2 UN proper shipping name • DOT-LAND, IMDG, IATA (ST-70, ST-2047) 	UN1791, Hypochlorite solutions, (with 7% available chlorine), 8, PG III
<ul style="list-style-type: none"> • DOT-LAND, IMDG, IATA (ST-1) 	UN1791, Hypochlorite solutions, (with 7% available chlorine), 8, PG III, Ltd. Qty.
<ul style="list-style-type: none"> • 14.3 Transport hazard class(es) This product can ship as Limited Quantity if packaged in ≤5 quarts (5.0 Liters) containers (Non Hazardous) • DOT-LAND, IMDG, IATA (ST-70, ST-2047) 	
 <ul style="list-style-type: none"> • Class • Label 	8 Corrosive 8
<ul style="list-style-type: none"> • DOT-LAND, IMDG, IATA (ST-1) 	
 <ul style="list-style-type: none"> • Class • Label 	N/A LTD. QTY.
<ul style="list-style-type: none"> • 14.4 Packing group • DOT, ADR, IMDG, IATA 	III
<ul style="list-style-type: none"> • 14.5 Environmental hazards: • Marine pollutant: 	No
<ul style="list-style-type: none"> • 14.6 Special precautions for user • Danger Code: • EMS Number • Segregation groups 	Warning: Corrosive Substances 80 F-A,S-B Alkalis
<ul style="list-style-type: none"> • 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> • Transport/Additional information: 	Not applicable.

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15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

Product as SOLD	Product at USE DILUTION
• Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):	
All ingredients are listed.	All ingredients are listed.

- Proposition 65 (California):

• Chemicals known to cause cancer:	
None of the ingredients is listed.	None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	None of the ingredients is listed.

• Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	None of the ingredients is listed.

- Carcinogenic Categories

• EPA (Environmental Protection Agency)	
None of the ingredients is listed.	None of the ingredients is listed.

• IARC (International Agency for Research on Cancer)	
None of the ingredients is listed.	None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)	
None of the ingredients is listed.	None of the ingredients is listed.

• NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	None of the ingredients is listed.

• OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	None of the ingredients is listed.

- Canada

• Canadian Domestic Substances List (DSL)	
All ingredients are listed.	All ingredients are listed.

• Canadian Ingredient Disclosure list (limit 0.1%)		
7681-52-9	Sodium Hypochlorite	Not applicable.

• Canadian Ingredient Disclosure list (limit 1%)	
None of the ingredients is listed.	None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Relevant phrases

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

R34 Causes burns.

R41 Risk of serious damage to eyes.

SDS File Name: SM50 DB HypoChlor SDS

NSF Certified: D2, 135239

• Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

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• Sources

SDS Prepared by:

JBE/JER

Revision: 10/16/2017

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