

# Della-Star

# SAFETY DATA SHEET

Preparation Date: 13-Mar-2017

Revision Date: 08-Jun-2018

Revision Number: 3

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product Identifier

**Product Name** Della-Star

### Other means of identification

**Item#:** CAN6550

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended use** Cleaning agent

**Uses advised against** All other

### Details of the supplier of the safety data sheet

**Supplier** DeLaval Inc.  
10900 Rue Secant Street  
Ville d'Anjou, Quebec H1J 1S5  
Tel: (705) 741-3100

### Emergency Telephone Number

(613) 996-6666 (Canutec)

## 2. HAZARDS IDENTIFICATION

### Classification

Acute Toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Corrosive to metals	Category 1

### Label Elements

**DANGER**

### Hazard statements

Harmful if swallowed  
Causes severe skin burns and eye damage

May be corrosive to metals



### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not

breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary Statements - Response

Specific treatment (see First Aid on this label)

Immediately call a POISON CENTER or doctor

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Corrosive to the eyes and may cause severe damage including blindness. Immediately call a POISON CENTER or doctor.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Extremely corrosive and destructive to tissue.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.

Inhalation of vapours in high concentration may cause irritation of respiratory system.

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. Do not induce vomiting. Ingestion causes burns of the upper digestive and respiratory tracts.

#### Precautionary Statements - Storage

Store locked up

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Chemical name	CAS No	Weight %
Potassium hydroxide	1310-58-3	10 - 30*
Sodium hypochlorite	7681-52-9	1 - 5*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### Description of first-aid measures

<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
<b>Inhalation</b>	Move to fresh air. Get medical attention immediately if symptoms occur. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
<b>Ingestion</b>	Do not induce vomiting. Drink 1 or 2 glasses of water. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention immediately. Call a physician or Poison Control Center immediately.

#### Most important symptoms and effects, both acute and delayed

Corrosive. The product causes burns of eyes, skin and mucous membranes.

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

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

The product is not flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Unsuitable Extinguishing Media

No information available

### Specific hazards arising from the chemical

Corrosive to metals. The product causes burns of eyes, skin and mucous membranes.

### Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapours.

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA**

**Health hazards 3**

**Flammability 0**

**Instability 1**

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. For personal protection see section 8.

### Environmental Precautions

Prevent further leakage or spillage if safe to do so.

### Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

#### **Handling**

Avoid contact with skin, eyes and clothing.

### Conditions for safe storage, including any incompatibilities

#### **Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

#### **Incompatible Materials**

Acids, light metals (e.g. aluminum, copper, brass, zinc galvanized).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical name	Alberta	British Columbia	Ontario TWAEV	Quebec
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	CEV: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>

### Appropriate engineering controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Eye/face Protection** Goggles

**Skin and body protection** Rubber gloves, Long sleeved clothing, Chemical resistant apron.

**Respiratory Protection** In case of inadequate ventilation wear respiratory protection.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid	<b>Odor</b>	Slight chlorine
<b>Appearance</b>	Light yellow	<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/ • Method</u>
<b>pH</b>	>13	No data available
<b>Melting point/freezing point</b>	No data available	No data available
<b>Boiling Point/Range</b>	No data available	No data available
<b>Flash Point</b>	No data available	No data available
<b>Evaporation rate</b>	No data available	No data available
<b>Flammability (solid, gas)</b>	No data available	No data available
<b>Flammability Limit in Air</b>		No data available
<b>Upper flammability limit</b>	No data available	
<b>Lower flammability limit</b>	No data available	
<b>Vapor Pressure</b>	No data available	No data available
<b>Vapor Density</b>	1.3 g/mL	No data available
<b>Specific Gravity</b>	1.29	No data available
<b>Water Solubility</b>	soluble	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available	No data available
<b>Autoignition Temperature</b>	No data available	No data available
<b>Decomposition temperature</b>	No data available	No data available
<b>Viscosity of Product</b>	No data available	No data available

**Other information**

**Density** 1.3 g/mL

## 10. STABILITY AND REACTIVITY

**Reactivity**

May react with other chemicals. Do not mix with other chemicals except as directed on label.

**Chemical Stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

May develop chlorine if mixed with acidic solutions. May spatter and release heat if mixed with acids. May react with and cause damage to soft metals such as aluminum, copper, brass or zinc (galvanized) to produce flammable, potentially explosive, hydrogen gas.

**Conditions to Avoid**

Product may degrade if exposed to long-term high temperature.

**Incompatible Materials**

Acids, light metals (e.g. aluminum, copper, brass, zinc galvanized).

**Hazardous decomposition products**

Chlorine.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

**Eyes** Corrosive to the eyes and may cause severe damage including blindness.  
**Skin** Extremely corrosive and destructive to tissue.  
**Ingestion** Ingestion causes burns of the upper digestive and respiratory tracts.

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 861.00  
 ATEmix (dermal) 8,254.00

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium hydroxide 1310-58-3	= 284 mg/kg ( Rat )	-	-
Sodium hypochlorite 7681-52-9	= 8200 mg/kg ( Rat )	10000 mg/kg ( Rabbit )	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin Corrosion/Irritation** Causes burns  
**Serious eye damage/eye irritation** Causes eye burns  
**Sensitization** None known  
**Mutagenic effects** None known  
**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite 7681-52-9	-	Group 3	-	-

**IARC (International Agency for Research on Cancer)**  
 Group 3 - Not Classifiable as to Carcinogenicity in Humans

**Reproductive Effects** None known  
**STOT - single exposure** None known  
**STOT - repeated exposure** None known  
**Aspiration Hazard** None known

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

If available, ecotoxicity values of individual components are shown below.

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Potassium hydroxide 1310-58-3	-	80: 96 h Gambusia affinis mg/L LC50 static	-	-
Sodium hypochlorite 7681-52-9	0.095: 24 h Skeletonema costatum mg/L EC50	LC50 (96 h) 0.06 mg/l	-	2.1: 96 h Daphnia magna mg/L EC50 0.033 - 0.044: 48 h

				Daphnia magna mg/L EC50 Static
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**Persistence and degradability**

No information available.

**Bioaccumulation/Accumulation**

No information available.

**Other adverse effects**

No information available.

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Waste Disposal Method**

Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Dispose of in accordance with local regulations. Should not be released into the environment.

**Contaminated Packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

**14. TRANSPORT INFORMATION****DOT**

<b>UN-No</b>	1760
<b>Proper Shipping Name</b>	Corrosive liquid, n.o.s ( Potassium hydroxide )
<b>Hazard Class</b>	8
<b>Packing Group</b>	III

**15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture****International Regulations**

**Ozone-depleting substances (ODS)** Not applicable

**Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

**Preparation Date:** 13-Mar-2017

**Revision Date:** 08-Jun-2018

**Revision Note:** No information available.

**Disclaimer**

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relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet