

# Safety Data Sheet

Issue date 22-Apr-2015

Version 1

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Product Identifier

Product name NIAGARA SPRAY STARCH

### Other means of identification

Product code 08177, 08134, 08182, 08120, 08102, 08150, 08125, 08248, 08249, 08950, 08247, 08192, 08246

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

Recommended Use Ironing aid, laundry starch.

Uses advised against Do not use on fabrics marked as "dry clean only".

### Name, Address, and Telephone of the Responsible Party

Niagara Starch Company  
1025 W. 8th Street  
Kansas City MO 64101  
1-816-329-1300

### Emergency Telephone Number

Emergency Phone Number 1-800-424-9300 CHEMTREC

## 2. Hazards Identification

### Classification

Gases Under Pressure	liquefied gas
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### Label Elements

#### EMERGENCY OVERVIEW

#### Warning

Contains gas under pressure; may explode if heated



**Appearance** Cloudy white, very thin emulsion

**Physical State** Aerosol

**Odor** Characteristic odor of starch.

### Precautionary Statements - Storage

Protect from sunlight. Store in a well-ventilated place

### Hazards not otherwise classified (HNOC)

# NIAGARA SPRAY STARCH

## Other Information

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### 3. Composition/information on Ingredients

<b>Synonyms</b>	Spray Starch.
<b>Chemical Family</b>	MIXTURES.
<b>Formula</b>	7-8100-5
<b>Chemical nature</b>	Aqueous solution of a polymer.

Chemical name	CAS No	weight-%	Trade secret
Water	7732-18-5	90-95	*
N-Butane	106-97-8	1-5	*
Propane	74-98-6	1-2	*

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

### 4. First aid measures

#### FIRST AID MEASURES

<b>Eye Contact</b>	Flush from eyes with plenty of water promptly.
<b>Skin contact</b>	Wash with soap and water.
<b>inhalation</b>	If overcome by vapor, move person to fresh air.
<b>INGESTION</b>	Ingestion from an aerosol product is unlikely to occur.

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

<b>Symptoms</b>	Acute, Deliberate inhalation of concentrated vapor or mist may cause headaches. Prolonged and repeated contact with the eyes may cause mild irritation.
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#### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	None needed.
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### 5. Fire-fighting measures

#### Suitable extinguishing media

Dry chemical, CO2 or water spray.

**Unsuitable extinguishing media** Use water spray or fog; do not use straight streams.

#### Specific hazards arising from the chemical

Containers are under pressure. Temperatures above 130 °F may cause cans to burst.

**Hazardous combustion products** Thermal decomposition may release carbon monoxide and carbon dioxide.

#### Explosion data

**Sensitivity to Mechanical Impact** Contents under pressure, keep away from heat and open flame.

**Sensitivity to Static Discharge** Keep away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

#### Protective equipment and precautions for firefighters

Use personal protective equipment as required.

### 6. Accidental release measures

# NIAGARA SPRAY STARCH

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## Personal precautions, protective equipment and emergency procedures

**Personal precautions** CONTENTS UNDER PRESSURE. Do not puncture or incinerate cans.

**Other Information** Keep out of reach of children.

## Environmental Precautions

**Environmental Precautions** See Section 12 for additional Ecological Information.

## Methods and material for containment and cleaning up

**Methods for Containment** Provide adequate ventilation to area being treated. Soak up spills with chemically inert, absorbent material.

**Methods for cleaning up** Clean contaminated surface thoroughly.

## 7. Handling and Storage

### Precautions for safe handling

**Advice on safe handling** Avoid getting spray into eyes. Keep out of reach of children.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Store in a cool, dry place away from heat and open flame. Avoid storing at below-freezing temperatures. **AEROSOL STORAGE LEVEL I (NFPA-30B)**.

**Incompatible Materials** Temperatures above 122 °F (50 °C).

## 8. Exposure Controls/Personal Protection

### Control parameters

**Exposure guidelines** See occupational exposure limits listed below.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
N-Butane 106-97-8	STEL: 1000 ppm	(vacated) TWA: 800 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	TWA: 800 ppm TWA: 1900 mg/m <sup>3</sup>
Propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1800 mg/m <sup>3</sup>	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>

### Appropriate engineering controls

**Engineering controls** Use with adequate general or local exhaust ventilation.

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

**Eye/face Protection** None required.

**Skin and Body Protection** None required.

**Respiratory protection** None required if used in a well-ventilated area .

**General hygiene considerations** None required.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

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## NIAGARA SPRAY STARCH

<b>Physical State</b>	Aerosol	<b>Odor</b>	Characteristic odor of starch.
<b>Appearance</b>	Cloudy white, very thin emulsion	<b>Odor threshold</b>	No information available
<b>Color</b>	white		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>	8.75 +/- 0.25	No information available	
<b>Melting point/freezing point</b>	NA	No information available	
<b>Boiling point/boiling range</b>	212 °F/100 °C	No information available	
<b>Flash Point</b>	Not available	No information available	
<b>Evaporation Rate</b>	Faster than butyl acetate	No information available	
<b>Flammability (solid, gas)</b>		No information available	
<b>Flammability Limits in Air</b>		No information available	
<b>Upper flammability limits</b>	Not available		
<b>Lower Flammability Limit</b>	Not available		
<b>Vapor pressure</b>	Not available	No information available	
<b>Vapor Density</b>		No information available	
<b>Specific gravity</b>		No information available	
<b>Water solubility</b>	0.99 - 1.0 concentrate	No information available	
<b>Solubility in other solvents</b>	completely soluble	No information available	
<b>Partition coefficient</b>		No information available	
<b>Autoignition Temperature</b>		No information available	
<b>Decomposition temperature</b>		No information available	
<b>Kinematic viscosity</b>		No information available	
<b>Dynamic viscosity</b>		No information available	
<b>Explosive properties</b>	No information available		
<b>Oxidizing properties</b>	No information available		
<b>Other Information</b>			
<b>Softening point</b>	No information available		
<b>Molecular weight</b>	No information available		
<b>VOC content (%)</b>	4.5 %		
<b>Density</b>	No information available		
<b>Bulk Density</b>	8.33 Lb/gal		

## 10. Stability and Reactivity

### Reactivity

Not applicable  
no data available

### Chemical stability

Stable.

### Possibility of hazardous reactions

Temperatures above 130 °F may cause cans to burst with force.

**hazardous polymerization**      Hazardous polymerization does not occur.

### Conditions to Avoid

Temperatures above 122 °F (50 °C).

### Incompatible Materials

Temperatures above 122 °F (50 °C).

### Hazardous decomposition products

Thermal decomposition may yield gases like carbon monoxide and carbon dioxide.

## 11. Toxicological Information

### Information on likely routes of exposure

**Product Information**      Product does not present an acute toxicity hazard based on known or supplied information

## NIAGARA SPRAY STARCH

<b>inhalation</b>	no data available.
<b>Eye Contact</b>	no data available.
<b>Skin contact</b>	no data available.
<b>INGESTION</b>	no data available.

Chemical name	Oral LD50	dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg ( Rat )	-	-
N-Butane 106-97-8	-	-	= 658 g/m <sup>3</sup> ( Rat ) 4 h
Propane 74-98-6	-	-	= 658 mg/L ( Rat ) 4 h

### Information on toxicological effects

**Symptoms** No information available.

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

**sensitization** No information available.  
**Germ Cell Mutagenicity** No information available.  
**carcinogenicity** Not known chronic effects based on available data. None of the ingredients present in excess of 0.1% are listed as carcinogenic by NTP, IARC or OSHA.

**Reproductive Toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration Hazard** No information available.

### Numerical measures of toxicity - Product Information

**Unknown acute toxicity** -  
The following values are calculated based on chapter 3.1 of the GHS document .  
**ATEmix (inhalation-gas)** 10000000  
**ATEmix (inhalation-vapor)** 16447.4 mg/l

## 12. Ecological Information

### ecotoxicity

8% of the mixture consists of components(s) of unknown hazards to the aquatic environment

### Persistence and degradability

No information available.

### Bioaccumulation

No information available.

Chemical name	Partition coefficient
N-Butane 106-97-8	2.89
Propane 74-98-6	2.3

**Other adverse effects** No information available

## 13. Disposal Considerations

## NIAGARA SPRAY STARCH

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### Waste treatment methods

<b>Disposal of wastes</b>	Do not puncture or incinerate container. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions.
<b>Contaminated packaging</b>	Pressurized container: Do not pierce or burn, even after use.

## 14. Transport Information

### DOT

<b>Proper Shipping Name</b>	Aerosols, Non-Flammable (each not exceeding 1L capacity)
<b>Hazard Class</b>	2.2
<b>Identification Number</b>	UN1950

## 15. Regulatory information

### International Inventories

<b>TSCA</b>	All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
<b>DSL</b>	All ingredients are listed or are excluded from listing on the DSL.

### Legend:

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

### US Federal Regulations

#### **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**

<b>Acute Health Hazard</b>	yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### US State Regulations

#### **California Proposition 65**

# NIAGARA SPRAY STARCH

This product does not contain any Proposition 65 chemicals

## U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5			X
N-Butane 106-97-8	X	X	X
Propane 74-98-6	X	X	X

## U.S. EPA Label information

EPA Pesticide registration number Not applicable

## 16. Other information

<u>NFPA</u>	Health Hazards 1	Flammability 1	Instability 1	Physical and chemical properties Not applicable
<u>HMIS</u>	Health Hazards 1	Flammability 2	Physical Hazards 1	Personal Protection Not applicable

Prepared by Regulatory Department  
Issue date 22-Apr-2015

### Revision note

This SDS supersedes a previous SDS dated May 01, 2014

### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information 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**