# SAFETY DATA SHEET

Water Flakes® Neutral Cleaner

# Section 1. Identification

**GHS** product identifier Water Flakes® Neutral Cleaner

Other means of identification

FP60 ST-791, ST-800

**Product type** 

: Solid

Relevant identified uses of the substance or mixture and uses advised against

**Product use** : Cleaner

Area of application : Industrial applications, Professional applications.

**Product dilution information** : 0.5 wt. oz. (14 g) per 3 gallons of water.

Supplier/Manufacturer : STEARNS PACKAGING CORPORATION

4200 Sycamore Avenue (53714)

PO Box 3216

Madison, WI 53704-0216 Telephone no.: 800-655-5008 Fax no.: 608-246-5149

Website: www.stearnspkg.com

e-mail address of person responsible for this SDS

stearns@stearnspkg.com

**Emergency telephone** number (with hours of

operation)

: CHEM-TEL: 800-255-3924

### Section 2. Hazards identification

#### **Product as SOLD**

: This material is considered hazardous by

the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

**OSHA/HCS** status

: EYE IRRITATION - Category 2A Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 48.1%

**GHS Label elements** 

**Hazard pictograms** 

Signal word : Warning

**Hazard statements** : Causes serious eve irritation.

**Precautionary statements** 

General : Keep out of the reach of children.

: Wear eye protection. Wash hands **Prevention** thoroughly after handling.

: IF IN EYES: Rinse cautiously with water Response

for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get

medical attention.

No storage precautions necessary. **Storage** 

**Disposal** : No disposal precautions necessary.

Hazards not otherwise

classified

None known.

#### **Product AT USE DILUTION**

Not classified.

Not classified.

None

None

The mixture does not meet the criteria for

classification.

Keep out of the reach of children.

Observe good industrial hygiene practices.

Rinse hands after handling.

No storage precautions necessary.

Unused product or its solutions may be poured down the drain. Never pour unused product or its solutions down an outdoor

drain.

None known.

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## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of : FP60 ST-791, ST-800

identification

Inhalation

**CAS** number/other identifiers

**CAS** number : Not applicable. **Product code** : Not available.

Ingredient name	Other names	%	CAS number
citric acid	citric acid	10 - 30	77-92-9
sodium carbonate	sodium carbonate	10 - 30	497-19-8
alcohols, C9-11, ethoxylated or	alcohol ethoxylate or Proprietary	<3	68439-46-3 or
Proprietary Nonionic Surfactant	Nonionic Surfactant		proprietary

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

#### Section 4. First aid measures

#### **Description of necessary first aid measures**

#### **Product as SOLD**

**Eye contact** : Remove contact lenses if worn, Rinse opened eye for several minutes under

running water. Then consult a doctor. : Supply fresh air; consult doctor in case of

complaints.

**Skin contact** : Brush off loose particles from skin.

> Immediately rinse with water. If skin irritation continues, consult a doctor.

Ingestion : Rinse out mouth and then drink plenty of

water.

Do not induce vomiting; call for medical

help immediately.

Most important symptoms/effects, acute and delayed

#### Potential acute health effects

: Causes serious eye irritation. Eye contact

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the

> following: pain or irritation watering

redness

Inhalation : Adverse symptoms may include the

following:

respiratory tract irritation

coughing

: Adverse symptoms may include the Skin contact

following: irritation redness

Ingestion : No specific data.

#### **Product AT USE DILUTION**

No known effect after eve contact. Rinse with water for a few minutes. If irritation persists, get medical attention.

No special measures required. Treat

symptomatically.

No known effect after skin contact. Rinse with water for a few minutes.

Get medical attention if symptoms occur.

No known effect after eye contact. Rinse with water for a few minutes. If irritation persists, get medical attention.

Treat symptomatically.

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### Section 4. First aid measures

Indication of immediate medical attention and special treatment needed, if necessary

Product as SOLD

Notes to physician : Treat symptomatically. Contact poison

treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment. Product AT USE DILUTION

Treat symptomatically.

No specific treatment.

No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

# Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

**Unsuitable extinguishing** 

media

: Do not use water jet.

Specific hazards arising from: No specific fire or explosion hazard.

the chemical

**Hazardous thermal** decomposition products : Decomposition products may include the following materials:

: Use an extinguishing agent suitable for the surrounding fire.

carbon dioxide carbon monoxide sulfur oxides metal oxide/oxides

**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 fire-fighters

Remark

: Dust explosion class: St1

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

#### **Product as SOLD**

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. Provide adequate ventilation.

Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

#### For emergency responders

: 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".

#### **Product AT USE DILUTION**

Use personal protective equipment as required.

Avoid contact of large amounts of spilled material and run off with soil and surface waterways.

Use a water rinse for final clean-up.

Use personal protective equipment as required.

Avoid contact of large amounts of spilled material and run off with soil and surface waterways.

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### Section 6. Accidental release measures

#### **Product as SOLD**

#### **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### **Product AT USE DILUTION**

Avoid discharge into storm water drains, water courses, or onto the ground.

#### Methods and materials for containment and cleaning up

#### **Small spill**

: Move containers from spill area. Avoid dust Small Spills: Wipe up with absorbent generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

material. Use a water rinse for final cleanup.

#### Large spill

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Large Spills: Flush area with water. Prevent entry into waterways.

Discharge collected material per Section 13 of the SDS.

# Section 7. Handling and storage

#### Precautions for safe handling

#### Product as SOLD

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### **Product AT USE DILUTION**

No special measures required.

#### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Wash hands thoroughly after handling.

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# Section 7. Handling and storage

#### Conditions for safe storage, : including any incompatibilities

#### **Product as SOLD**

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and wellventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Keep from freezing.

#### **Product AT USE DILUTION**

Keep out of reach of children.

## Section 8. Exposure controls/personal protection

### Control parameters

Occupational exposure limits

None.

#### Appropriate engineering controls

#### Product as SOLD

#### Use only with adequate ventilation. If user operations generate dust, 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.

#### **Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **Product AT USE DILUTION**

No exposure limits noted for ingredient(s).

No biological exposure limits noted for the ingredient(s).

#### **Individual protection measures Hygiene measures**

after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that evewash stations and safety showers are close to the workstation location.

: Wash hands, forearms and face thoroughly Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### **Eye/face protection**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

No protective equipment is needed under normal conditions.

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# Section 8. Exposure controls/personal protection

#### Skin protection

#### **Product as SOLD**

#### Product AT USE DILUTION

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard

should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures,

consisting of several substances, the protection time of the gloves cannot be

accurately estimated.

Recommended: Neoprene gloves. Rubber

gloves.

**Body protection** Personal protective equipment for the body No protective equipment is needed under

should be selected based on the task being normal conditions. performed and the risks involved and should be approved by a specialist before

handling this product.

Other skin protection : 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.

Use a properly fitted, air-purifying or air-fed Respiratory protection

> respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected

respirator.

No protective equipment is needed under normal conditions.

No protective equipment is needed under normal conditions.

No protective equipment is needed under normal conditions.

## Section 9. Physical and chemical properties

#### **Product as SOLD**

#### **Appearance**

: Solid. [Granular solid.] **Physical state** 

Color : Orange. Odor : Pine.

**Odor threshold** : Not available. : Not applicable. pН

**Boiling point** : Not available. Flash point : Not available.

**Evaporation rate** Flammability (solid, gas) Lower and upper explosive (flammable) limits

: Not available. : Not applicable. : Not available.

### **Product AT USE DILUTION**

Liquid.

Faint orange.

Not available.

Pine.

6.2 to 7.2 Not available. Not available.

Not available. Not applicable. Not available.

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# Section 9. Physical and chemical properties

**Product as SOLD Product AT USE DILUTION** Vapor pressure Not available. Not available. Vapor density : Not available. Not available. Relative density : 1.112 1.0 **Solubility** : Easily soluble in the following materials: Complete cold water and hot water. Solubility in water Not available. Not available. Partition coefficient: n-: Not available. Not available. octanol/water **Auto-ignition temperature** : Not available. Not available. **Decomposition temperature**: Not available. Not available. **SADT** : Not available. Not available. **Viscosity** : Not available. Not available.

### Section 10. Stability and reactivity

#### **Product as SOLD**

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous : Under normal conditions of storage and use, hazardous reactions will not occur. reactions

: Under normal conditions of storage and use, hazardous polymerization will not occur.

**Conditions to avoid** : Keep from freezing. Keep away from heat.

**Incompatible materials**: Reactive or incompatible with the following materials: acids.

**Hazardous decomposition** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
citric acid	LD50 Oral	Rat	3 g/kg	-
sodium carbonate	LD50 Oral	Rat	4090 mg/kg	-
alcohols, C9-11, ethoxylated	LD50 Oral	Rat	>2000 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
citric acid	Eyes - Severe irritant	Rabbit	-	24 hours 750	-
				Micrograms	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	0.5 Milliliters	-
sodium carbonate	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				milligrams	
	Eyes - Severe irritant	Rabbit	-	50 milligrams	-
	Skin - Mild irritant	Rabbit	_	24 hours 500	-
				milligrams	
alcohols, C9-11, ethoxylated	Skin – Irritant	Rabbit	-	-	-
	Eyes - Severe irritant	Rabbit	-	-	-

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## Section 11. Toxicological information

**Product as SOLD** 

Not available.

Sensitization **Mutagenicity** Not available. Carcinogenicity Not available. Not available.

Reproductive toxicity **Teratogenicity** Specific target organ

toxicity (single exposure)

Specific target organ

toxicity (repeated exposure)

**Aspiration hazard** Information on the likely

routes of exposure

Not available.

Not available.

Not available.

Not available. Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : May cause respiratory irritation.

**Skin contact** : Causes skin irritation.

: Irritating to mouth, throat and stomach. Ingestion

Direct contact with eyes may cause

**Product AT USE DILUTION** 

Non-toxic at use-dilution.

temporary irritation. Not applicable.

No adverse effects due to skin contact are

expected.

Non-toxic at use-dilution.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the

following: pain or irritation watering redness

Inhalation : Adverse symptoms may include the

following:

respiratory tract irritation

coughing

Skin contact : Adverse symptoms may include the

> following: Irritation redness

Ingestion : No specific data. No specific data.

No specific data.

No specific data.

No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

**Potential immediate** 

effects

Potential delayed effects: Not available.

: Not available.

: Not available.

Not available.

Not available.

Long term exposure

**Potential immediate** 

effects

Potential delayed effects: Not available.

Potential chronic health

effects General

: No known significant effects or critical

Not available.

hazards.

Carcinogenicity : No known significant effects or critical

hazards.

Not available.

Not available.

No known significant effects or critical

No known significant effects or critical

hazards.

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# Section 11. Toxicological information

Product as SOLD

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical

No known significant effects of hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

#### **Product AT USE DILUTION**

No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
Oral	2452.7 mg/kg

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
citric acid	Acute LC50 160000 μg/l Marine water	Crustaceans - Carcinus maenas- Adult	48 hours
sodium carbonate	Acute EC50 242000 μg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute LC50 176000 μg/l Fresh water	Crustaceans - Amphipoda	48 hours
	Acute LC50 265000 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 300000 μg/l Fresh water	Fish - Lepomis macrochirus	96 hours
alcohols, C9-11, ethoxylated	Acute LC50 8.5 mg/l Fresh water	Fish – Fathead Minnow (Pimephales promelas)	96 hours
	Acute EC50 5.3 mg/l Fresh water	Daphnia - Daphnia magna	48 hours

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
citric acid	-1.8	-	low

# Section 13. Disposal considerations

Product as SOLD Product AT USE DILUTION

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

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#### **Product as SOLD**

#### **Disposal methods**

: The generation of waste should be avoided Diluted product can be flushed to sanitary or minimized wherever possible. Disposal of this product, solutions and any byproducts should at all times 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. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

#### **Product AT USE DILUTION**

sewer. Discard empty container in trash.

# Section 14. Transport information

#### **Product as SOLD**

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	Cleaning Compounds, NOI, powder	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

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.

Transport in bulk according: Not available. to Annex II of MARPOL 73/78 and the IBC Code

#### **Product AT USE DILUTION**

Not intended for transport

# Section 15. Regulatory information

U.S. Federal regulations

: United States inventory (TSCA 8b): Not determined.

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**Product as SOLD** 

**Product AT USE DILUTION** 

**Product AT USE DILUTION** 

Not listed

Not listed

Not listed

Not listed

Not listed

Not regulated.

Not regulated.

**Clean Air Act Section 112** 

(b) Hazardous Air **Pollutants (HAPs)** 

Clean Air Act Section 602

**Class I Substances** 

Not listed

Not listed

Clean Air Act Section 602 Class II Substances

**DEA List I Chemicals** 

Not listed (Precursor Chemicals)

**DEA List II Chemicals** (Essential Chemicals) Not listed

Not listed

**SARA 302/304** 

Composition/information on ingredients

No products were found.

**Product as SOLD** 

SARA 304 RQ : Immediate (acute) health hazard

**SARA 311/312** : Not regulated.

Classification : Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
citric acid	10 - 30	Yes.	No.	No.	Yes.	No.
sodium carbonate	10 - 30	No.	No.	Yes.	Yes.	No.
alcohols, C9-11, ethoxylated	1 - 5	No.	No.	No.	Yes.	No.

**SARA 313** : Not applicable.

State regulations

**Massachusetts** : The following components are listed:

SODIUM SULFATE (SOLUTION);

PRECIPITATED SILICA

**New York** : None of the components are listed.

The following components are listed: **New Jersey** 

SILICA, AMORPHOUS, PRECIPITATE &

**GEL** 

**Pennsylvania** : The following components are listed:

SODIUM SULFATE (SOLUTION);

PRECIPITATED SILICA

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer and birth defects or other reproductive harm

## Section 16. Other information

**SDS File Name** : FP60 Water Flakes Neutral Cleaner SDS

: 02/05/2015 Date of issue/Date of revision : 11/03/2017 Date of previous issue Version : 1 11/12 Water Flakes® Neutral Cleaner

C1; 7/8/05 **NSF Certified** Yes

**DfE Certified** 

Date of issue/Date of

**History** 

11/03/2017

revision

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**Version** 

Prepared by JBE/JER

Key to abbreviations ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labeling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

References HCS (U.S.A.)- Hazard Communication Standard

International transport regulations

Indicates information that has changed from previously issued version.

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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