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Safety Data Sheet

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

DRK90(05)

#470

Trade name: Water Flakes® All-Purpose Cleaner/Deodorizer

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

- 1.1 Product identifier
- Trade name: Water Flakes® All-Purpose Cleaner/Deodorizer

ST-793, ST-802

- Article number: GP90
- 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 Detergent for general cleaning

Product dilution information: 0.5 wt. oz. (14 g) per 2 gal. of water (heavy-duty); 3 gal. (general cleaning); 4 gal. (light duty cleaning)

1.3 Details of the supplier of the Safety Data Sheet

Stearns Packaging Corporation 4200 Sycamore Avenue (53714)

PO Box 3216

Madison, WI 53704-0216 Phone: 800-655-5008

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

Classification according to Regulation (EC) No 1272/2008
 Product as SOLD

(1) GHS07

Product at USE DILUTION

Not classified.

Not classified.

Eye Dam./Irrit. 2A H319 Causes serious eye irritation.

Skin Irrit. 2 H315 Causes skin irritation.

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

Xi; Irritant R36: Irritating to eyes Not classified.

· Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

The mixture does not meet the criteria for classification.

· 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.

Trade name: Water Flakes® All-Purpose Cleaner/Deodorizer

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• 2.2 Label elements	
 Labeling according to Regulation (EC) No 1272/2008 	
Product as SOLD	Product at USE DILUTION
The product is classified and labeled according to the CLP regulation.	The mixture does not meet the criteria for classification.
Hazard pictograms	
<u>(1)</u>	None
GHS07	
Signal word Warning	No signal word.
Hazard-determining components of labelling:	Transcription of the control of the
disodium metasilicate	Not applicable
Hazard statements	
H315 Causes skin irritation. H319 Causes serious eye irritation.	
Precautionary statements	
P102 Keep out of reach of children. P280 Wear protective gloves / eye protection. P264 Wash hands thoroughly after handling. P305+P351+P338+P337+P313 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: get medical attention. P302+P352+P362+P332+P313 IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical attention.	Keep out of reach of children. Unused product or its solutions may be poured down the drain, Never pour unused product or its solutions down an outdoor drain.

3 Composition/information on ingredients

- 3 2 Mivfures
- Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 497-19-8 EINECS: 207-838-8 Index number: 011-005-00-2	Sodium Carbonate Xi R36	25-50%
	Eye Irrit. 2A, H319	
CAS: 144-55-8	Sodium Bicarbonate	<15%
CAS: 77-92-9 EINECS: 201-069-1	citric acid Xi R36	<10%
	Eye Irrit. 2A, H319	

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Trade name: Water Flakes® All-Purpose Cleaner/Deodorizer

		(Contd. from p
CAS: Proprietary	Proprietary Surfactant	<10%
	Eye Dam./Eye Irrit. 2B]
CAS: 6834-92-0 EINECS: 229-912-9 Index number: 014-010-00-8	disodium metasilicate C R34; Xi R37	<3%
	Skin Corr. 1B, H314	
	STOT SE 3, H335, Acute Tox., Oral, 4 H302	
CAS: 112926-00-8	Precipitated silica (Silica-Amorphous) substance with a Community workplace exposure limit	<1%

[•] Additional information: For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

Product as SOLD	Product at USE DILUTION
General information: No special measures required.	No special measures required:
 After inhalation: Supply fresh air; consult doctor in case of complaints. 	No special measures required, Treat symptomatically,
After skin contact: Immediately rinse with water. If skin irritation continues, consult a doctor.	No known effect after skin contact. Rinse with water for a few minutes
After eye contact: Remove contact lenses if worn. Rinse opened eye for several minutes under running water. Then consult a doctor.	No known effect after eye contact. Rinse with water for a few minutes. If irritation persists, get medical attention.
After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.	Get medical attention if symptoms occur.
4.2 Most important symptoms and effects, both acute and delayed Cramp Nausea Thirst Coughing	No known effects:
Hazards No further relevant information available.	No known effects,
 4.3 Indication of any immediate medical attention and spe 	cial treatment needed
Treat skin and mucous membrane with antihistamine and corticoid preparations.	Treat symptomatically.
In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.	
Medical supervision for at least 48 hours.	
If swallowed, gastric irrigation.	

Trade name: Water Flakes® All-Purpose Cleaner/Deodorizer

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5 Fire-fighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: None.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

• Additional information No further relevant information available.

6 Accidental release measures

Product as SOLD	Product at USE DILUTION
Ensure adequate ventilation	Use personal protective equipment as required.
Product forms slippery surface when combined with water.	
6.2 Environmental precautions:	
No special measures required.	Avoid contact of large amounts of spilled material and run off with soil and surface waterways.
• 6.3 Methods and material for containment and cleaning t	ıp:
Pick up mechanically. 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 water- ways. Small Spills: Wipe up with absorbent material.
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.

7 Handling and storage

Product as SOLD	Product at USE DILUTION
Prevent formation of dust. Any unavoidable deposit of dust must be regularly removed.	No special measures required.
Information about fire - and explosion protection:	
No special measures required.	No special measures required.
7.2 Conditions for safe storage, including any incom	patibilities
Storage:	
Requirements to be met by storerooms and recepta	cles:
Protect from humidity and water. Store in a cool location.	Keep out of reach of children.

(Contd. on page 5)

Trade name: Water Flakes® All-Purpose Cleaner/Deodorizer

	(Contd. from page
Product as SOLD	Product at USE DILUTION
Information about storage in one common storage fac	ility:
Do not store together with acids. Store away from foodstuffs. Store away from oxidizing agents.	No storage precautions necessary,
Further information about storage conditions:	
Store in cool, dry conditions in well sealed receptacles. Protect from humidity and water. Store in dry conditions. Keep container tightly sealed. Protect from freezing.	No storage precautions necessary.

8 Exposure controls/personal protection

 Additional information about 	design of technical facilities:	No further data: see item 7
· Additional illiorniation about	design of technical facilities.	INO IUITITEI WALA, SEE ILEIII /.

Product as SOLD

Product at USE DILUTION

• 8.1 Control parameters

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- 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. Not required under normal conditions of use.

• Respiratory protection:

Not required under normal conditions of use. Use suitable respiratory protective device in case of insufficient ventilation.

Use suitable respiratory protective device when high concentrations are present.

A respirator is not required under normal and intended conditions of use.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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.

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Trade name: Water Flakes® All-Purpose Cleaner/Deodorizer

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Product as SOLD	Product at USE DILUTION
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,
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,
Eye protection:	
Safety glasses	No protective equipment is needed under normal conditions.
Body protection:	
Alkaline resistant protective clothing	No protective equipment is needed under normal conditions.
• Limitation and supervision of exposure into the environn	nent
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.

	Product as SOLD	Product at USE DILUTION
• 9.1 Information on basic physical a	nd chemical properties	
 General Information Appearance: Form: Color: Odor: Odor threshold: 	Powder Yellow Citrus Not determined.	Liquid colorless Citrus Not determined:
• pH-value at 20 °C:	Not applicable.	9.5 ± 0.5 at all label use-dilutions.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. Undetermined.	Not applicable. 100° C / 212° F
- Flash point:	Not applicable.	Not determined.
Flammability (solid, gaseous):	Not determined.	Not applicable.
Ignition temperature:	Not determined.	Not applicable.
Decomposition temperature:	Not determined.	Not determined.

Trade name: Water Flakes® All-Purpose Cleaner/Deodorizer

		(Contd. from page
	Product as SOLD	Product at USE DILUTION
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.
 Explosion limits: Lower:	Not determined. Not determined.	Not determined. Not determined.
• Vapor pressure at 20 °C:	23 hPa	Not determined.
Density at 20 °C: Relative density Vapor density Evaporation rate	1.14 g/cm³ Not determined, Not applicable. Not applicable.	1.00 g/cm³ Not determined. Not applicable. Not applicable
Solubility in / Miscibility with water:	Soluble.	Complete
Partition coefficient (n-octanol/water):	Not determined.	Not determined.
Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.	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:
- No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions

Reacts with acids.

As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion. Reacts with strong oxidizing agents.

Toxic fumes may be released if heated above the decomposition point.

- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: Possible in traces.

11 Toxicological information

11.1 Information on toxicological effects	
Product as SOLD	Product at USE DILUTION
Acute toxicity:	Non-toxic at use-dilution.
Primary irritant effect:	
on the skin: Irritant to skin and mucous membranes.	No adverse effects due to skin contact are expected.
 on the eye: Strong irritant with the danger of severe eye injury. 	Direct contact with eyes may cause temporary irritation.

(Contd. on page 8)

Trade name: Water Flakes® All-Purpose Cleaner/Deodorizer

(Contd. from page 7)

Product as SOLD	Product at USE DILUTION
Sensitization: No sensitizing effects known.	No sensitizing effects known.
Additional toxicological information:	
The product shows the following dangers according Classification Guidelines for Preparations as issued	to the calculation method of the General EU in the latest version:
Irritant	Not classified No known significant effects or critical hazards.

12 Ecological information

- 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark:

After neutralization a reduction of the harming action may be recognized Due to mechanical actions of the product (e.g. agglutinations) damages may occur

- Additional ecological information:
- · General notes:

This statement was deduced from the properties of the single components. Due to available data on eliminability/decomposition and bioaccumulation potential a prolonged damage of the environment is unlikely.

- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

• 13.1 Waste treatment methods	
Product as SOLD	Product at USE DILUTION
Recommendation	
Smaller quantities can be disposed of with household waste. 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 official regulations.	Diluted product can be flushed to sanitary sewer. Discard empty container in trash.
 Recommended cleansing agents: Water, if necessary together with cleansing agents. 	

Safety Data Sheet

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

Trade name: Water Flakes® All-Purpose Cleaner/Deodorizer

(Contd. from page 8)

Product as SOLD	
Product as SOLD	
 14.1 UN-Number DOT, ADR, ADN, IMDG, IATA 	N/A
• 14.2 UN proper shipping name • DOT, ADR, ADN, IMDG, IATA	Cleaning Compounds, NOI, powder.
14.3 Transport hazard class(es)	
• DOT, ADR, ADN, IMDG, IATA • Class	N/A
• 14.4 Packing group • DOT, ADR, IMDG, IATA	N/A
• 14.5 Environmental hazards: • Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
• UN "Model Regulation":	Cleaning Compounds, NOI, powder.

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 355 (extremely hazardous substances):			
None of the ingredients is listed.	Not applicable:		
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 female:	s:		
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.		

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Trade name: Water Flakes® All-Purpose Cleaner/Deodorizer

IARC (International Agency for Research on Cancer) 112926-00-8 Precipitated silica (Silica-Amorphous) 3 No TLV (Threshold Limit Value established by ACGIH)	Product at USE DILUTION one of the ingredients is listed: ot applicable; one of the ingredients is listed;
EPA (Environmental Protection Agency) None of the ingredients is listed. IARC (International Agency for Research on Cancer) 112926-00-8 Precipitated silica (Silica-Amorphous) 3 No TLV (Threshold Limit Value established by ACGIH)	it applicable.
None of the ingredients is listed. IARC (International Agency for Research on Cancer) 112926-00-8 Precipitated silica (Silica-Amorphous) 3 No TLV (Threshold Limit Value established by ACGIH)	it applicable.
IARC (International Agency for Research on Cancer) 112926-00-8 Precipitated silica (Silica-Amorphous) 3 No TLV (Threshold Limit Value established by ACGIH)	it applicable.
112926-00-8 Precipitated silica (Silica-Amorphous) 3 No TLV (Threshold Limit Value established by ACGIH)	
TLV (Threshold Limit Value established by ACGIH)	
	one of the ingredients is listed.
None of the ingredients is listed.	one of the ingredients is listed.
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	ne of the ingredients is listed.
OSHA-Ca (Occupational Safety & Health Administration)	
All ingredients are listed.	ingredients are listed.
Canada	
Canadian Domestic Substances List (DSL)	
All ingredients are listed.	ingredients are listed.
Canadian Ingredient Disclosure list (limit 0.1%)	
None of the ingredients is listed.	one of the ingredients is listed.
Canadian Ingredient Disclosure list (limit 1%)	
77-92-9 Citric Acid No	otapplicable.
497-19-8 Sodium Carbonate No	ot applicable.
6834-92-0 disodium metasilicate No	ot applicable.

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.

 Rel 	levan	t p	hras	es
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H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

R34	Causes burns.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.

R38 Irritating to skin.

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Trade name: Water Flakes® All-Purpose Cleaner/Deodorizer

(Contd. from page 10)

Product as SOLD	Produc	Product at USE DILUTION		
 Hazardous Material Information System (U.S. 	A.)			
Health 2	Health	0		
Flammability 0	Flammability	0		
Physical hazards 0	Physical hazards	0		
4=Very High; 3=High; 2=Moderate; 1=Slight; 0=Insignifica	nt 4=Very High; 3=High; 2=M	oderate; 1=Slight; 0=I	nsignificant	
• NFPA ratings (scale 0 - 4)			Secretary Lawrence (Section Section Se	
Health = 2		ealth = 0		
Fire = 0	T O O FI	re=0.		
Reactivity = 0	R	eactivity = 0		

MSDS File Name: GP90 WATER FLAKES ALL-PURPOSE CLEANER DEODORIZER SDS

NSF Certified: C1, 7/27/04 EPA/DfE Recognized: Yes · 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)

LD50: Lethal dose, 50 percent

Sources

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com

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