# SAFETY DATA SHEET



Issuing Date: 05-Oct-2015

Revision Date: 05-Oct-2015

Version 1

	1. IDENTIFICATION
Product Name	Dawn Ultra Dishwashing Liquid, Original Scent
Product ID:	97591965_RET_NG
Product Type:	Finished Product - Consumer (Retail) Use Only
Recommended use	Dish Care
Restrictions on Use	Use only as directed on label.
Synonyms	Dawn Ultra Dishwashing Liquid, Pomegranate Awakening (97591967_RET_NG) Dawn Ultra Dishwashing Liquid, Apple Orchard Harvest (97591968_RET_NG)
Manufacturer	PROCTER & GAMBLE - Fabric and Home Care Division Ivorydale Technical Centre 5289 Spring Grove Avenue Cincinnati, Ohio 45217-1087 USA
	Procter & Gamble Inc. P.O. Box 355, Station A Toronto, ON M5W 1C5 1-800-331-3774
E-mail Address	pgsds.im@pg.com
Emergency Telephone	Transportation (24 HR) CHEMTREC - 1-800-424-9300 (U.S./ Canada) or 1-703-527-3887 Mexico toll free in country: 800-681-9531

# 2. HAZARD IDENTIFICATION

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

This product is classifed under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:.

<u>Hazard Category</u> Eye Damage / Irritation	Category 2B
Signal Word	WARNING
Hazard Statements	Causes eye irritation
Hazard pictograms	None

Precautionary Statements - Prevention	Wash hands thoroughly after handling
Precautionary Statements - Response	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 advice/attention IF SWALLOWED: Drink 1 or 2 glasses of water
Precautionary Statements - Storage	None
Precautionary Statements - Disposal	None
Hazards not otherwise classified (HNOC)	None

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

Chemical Name	Synonyms	Trade Secret	CAS-No	Weight %
Sulfuric acid, mono-C10-16-alkyl esters, sodium salts	Sulfuric acid, mono-C10-16-alkyl esters, sodium salts	No	68585-47-7	15 - 20
Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts	Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydro xy-, C10-16-alkyl ethers, sodium salts	No	68585-34-2	5 - 10
Amine oxides, C10-16-alkyldimethyl	Amine oxides, C10-16-alkyldimethyl	No	70592-80-2	5 - 10
Ethanol	Ethanol	No	64-17-5	1 - 5

# 4. FIRST AID MEASURES

# First aid measures for different exposure routes

Eye contact	Rinse with plenty of water. Get medical attention immediately if irritation persists.
Skin contact	Rinse with plenty of water. Get medical attention if irritation develops and persists.
Ingestion	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.
Inhalation	Move to fresh air. If symptoms persist, call a physician.
Most important symptoms/effects, acute and delayed	None under normal use conditions.
Indication of immediate medical att	ention and special treatment needed, if necessary

Notes to Physician

Treat symptomatically.

# **5. FIRE-FIGHTING MEASURES**

97591965\_RET\_NG - Dawn Ultra Dishwashing Liquid, Original Scent

Suitable extinguishing media	Dry chemical, CO <sub>2</sub> , alcohol-resistant foam or water spray.
Unsuitable Extinguishing Media	None.
Special hazard	None known.
Special protective equipment for fire-fighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Specific hazards arising from the chemical	None.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective ed	quipment and emergency procedures
Personal precautions	Use personal protective equipment. Do not get in eyes, on skin, or on clothing.
Advice for emergency responders	Use personal protective equipment as required.
Methods and materials for containr	nent and cleaning up
Methods for containment	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
	7. HANDLING AND STORAGE

# T. HANDLING AND STORAGE

# Precautions for safe handling

Advice on safe handling	Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.
Conditions for safe storage, includ	ing any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible products	None known.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Control parameters**

## **Exposure Guidelines**

Chemical Name	CAS-No	ACGIH TLV	OSHA PEL	Mexico PEL
Ethanol	64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	Mexico: TWA 1000 ppm Mexico: TWA 1900 mg/m³

Chemical Name	CAS-No	Alberta	Quebec	Ontario TWAEV	British Columbia
Ethanol	64-17-5	TWA: 1000 ppm	TWA: 1000 ppm	STEL: 1000 ppm	STEL: 1000 ppm
		TWA: 1880 mg/m <sup>3</sup>	TWA: 1880 mg/m <sup>3</sup>		

No relevant exposure guidelines for other ingredients

.

# Exposure controls

Engineering Measures	Distribution, Workplace and Household Settings: Ensure adequate ventilation
	<b>Product Manufacturing Plant (needed at Product-Producing Plant ONLY):</b> Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction
Personal Protective Equipment	
Eye Protection	Distribution, Workplace and Household Settings: No special protective equipment required
	Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Use appropriate eye protection
Hand Protection	<b>Distribution, Workplace and Household Settings:</b> No special protective equipment required
	Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Protective gloves
Skin and Body Protection	Distribution, Workplace and Household Settings: No special protective equipment required
	Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Wear suitable protective clothing
Respiratory Protection	Distribution, Workplace and Household Settings: No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY): In case of insufficient ventilation wear suitable respiratory equipment

# 9. PHYSICAL AND CHEMICAL PROPERTIES

liquid Various color by product

No information available

Scented

Physical State @20°C
Appearance
Odor
Odor threshold

Property pH value	<u>Values</u> 9.0 - 9.2
Melting/freezing point	No information available
Boiling point/boiling range	100 - 104 °C / 212 - 219 °F
Flash point	No Flash to Boiling (NFTB)
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability Limits in Air	
Upper flammability limit	No information available
Lower Flammability Limit	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	1.04
Water solubility	100%
Solubility in other solvents	No information available
Partition coefficient: n-octanol/wate	erNo information available
Autoignition temperature	No information available
Decomposition temperature	No information available

Note 10% aqueous solution

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Viscosity of Product	No information available
VOC Content (%)	Products comply with US state and federal regulations for VOC content in consumer
	products.

10. STABILITY AND REACTIVITY		
Reactivity	None under normal use conditions.	
Stability	Stable under normal conditions.	
Hazardous polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	
Conditions to Avoid	None under normal processing.	

Materials to avoid None in particular.

Hazardous Decomposition Products None under normal use.

# **11. TOXICOLOGICAL INFORMATION**

<u>Product Information</u> Information on likely routes of exposure

Inhalation	No known effect.
Skin contact	No known effect.
Ingestion	No known effect.
Eye contact	Irritating to eyes.

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

Acute toxicity Skin corrosion/irritation	No known effect. No known effect.
Serious eye damage/eye irritation	Irritating to eyes.
Skin sensitization	No known effect.
Respiratory sensitization	No known effect.
Germ cell mutagenicity	No known effect.
Neurological Effects	No known effect.
Reproductive toxicity	No known effect.
Developmental toxicity	No known effect.
Teratogenicity	No known effect.
STOT - single exposure	No known effect.
STOT - repeated exposure	No known effect.
Target Organ Effects	No known effect.
Aspiration hazard	No known effect.
Carcinogenicity	No known effect.

# Component Information

Chemical Name	CAS-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts	68585-34-2	>2001 mg/kg	-	-

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

The product is not expected to be hazardous to the environment.

Persistence and degradability

No information available.

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Bioaccumulative potential	No information available.
Mobility	No information available.
Other adverse effects	No information available.

**13. DISPOSAL CONSIDERATIONS** 

## Waste treatment

Waste from Residues / Unused Products	Disposal should be in accordance with applicable regional, national and local laws and regulations.		
Contaminated packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.		
California Hazardous Waste Codes (non-household setting)	331		
14. TRANSPORT INFORMATION			

DOT	Not regulated
IMDG	Not regulated
IATA	Not regulated

# **15. REGULATORY INFORMATION**

# U.S. 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

## CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	CAS-No	Hazardous Substances RQs	Extremely Hazardous Substances RQs	CERCLA/SARA 302 TPQ
Sodium hydroxide	1310-73-2	1000 lb	-	

## Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substance(s) which are either listed as hazardous air pollutants (HAPS) or VOC's per the Clean Air Act:

Chemical Name	CAS-No	CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
Phenoxyethanol	122-99-6	Х

#### **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CAS-No	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide	1310-73-2	1000 lb	-	-	Х

# California Proposition 65

#### 97591965\_RET\_NG - Dawn Ultra Dishwashing Liquid, Original Scent

This product is not subject to warning labeling under California Proposition 65.

## **U.S. State Regulations (RTK)**

Chemical Name	CAS-No	New Jersey
Ethanol	64-17-5	X

Chemical Name	CAS-No	Massachusetts
Ethanol	64-17-5	Х

Chemical Name	CAS-No	Pennsylvania
Ethanol	64-17-5	Х
Sodium hydroxide	1310-73-2	Х
Phenoxyethanol	122-99-6	Х

# International Inventories

## **United States**

All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

#### Canada

This product is in compliance with CEPA for import by P&G.

# Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory **CEPA** - Canadian Environmental Protection Act

# **16. OTHER INFORMATION**

Issuing Date:	05-Oct-2015
Revision Date:	05-Oct-2015
Disclaimer	

The information provided in this 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 SDS

## SAFETY DATA SHEET

#### Section 1 Chemical Product and Company Identification

## HOME SCIENCE TOOLS

665 Carbon Street Billings, MT 59102 800-860-6272 www.homesciencetools.com

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#### CHEMTREC 24 Hour Emergency USA Phone Number (800) 424-9300 1 703-741-5500 (from anywhere in the world).

For laboratory and industrial use only. Not for drug, food or household use.

Product HYDROGEN PEROXIDE, 6%

#### Synonyms Hydrogen Dioxide

#### Section 2 Hazards Identification

## Signal word: WARNING

Pictograms: GHS07 Target organs: Respiratory and gastrointestinal systems, skin, eyes



**GHS Classification:** Acute toxicity (Category 4) Eye irritation (Category 2A)

#### GHS Label information: Hazard statement:

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

#### Precautionary statement:

P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

# Supplementary information:

Do not tamper with venting mechanism.

#### Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Composition / Information on Ingredients				
Chemical Name		CAS #	%	EINECS	
Water Hydrogen peroxide Acetanilide		7732-18-5 7722-84-1 103-84-4	<94% 6% 0.05%	231-791-2 231-765-0 203-150-7	
Section 4	First Aid Measures				

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES IRRITATION AND / OR BURNS TO EYES. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSES IRRITATION AND / OR BURNS TO THE SKIN. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

#### Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Water only! Apply vast amounts for cooling and dilution.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This product is a strong oxidizer which may release oxygen and promote the combustion of flammable materials. Spontaneous combustion can occur if allowed to remain in contact with oxidizable materials. Drying of product on clothing or combustible material may cause fire.

#### Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7	Handling & Storage
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Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances. Keep away from ignition sources. Do not allow temperature of storage to rise above 100°F.

Section 8	Exposure Controls / Personal Protection				
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)	
Exposure Limits.	Hydrogen peroxide	TWA: 1 ppm ; 1.4 mg/m <sup>3</sup> (A3)	TWA: 1 ppm ; 1.4 mg/m <sup>3</sup>	TWA: 1 ppm ; 1.4 mg/m <sup>3</sup>	

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

approved respirator.			,			,	
Section 9	Physical & Chemical Prope	erties					
Appearance: Clear, Odor: Slightly punge Odor threshold: Da pH: Data not availab Melting / Freezing point: Boiling point: Approx Flash point: Data no	available. Data not available er) roximately 1.0 (water	Auto-igniti Decompos Viscosity: Molecular	•	: Data not available Ire: Data not available. ble. re			
Section 10	Stability & Reactivity						
combustion.	Excessive temperatures, heat,	sparks, open fla		s of ignition. Contact			
-		-			a dirt contamir	iants, fiammable	substances, oxidizable materials
·	osition products: Oxygen, which	in will promote t	ne compustion of harr	imable material.			
Section 11	Toxicological Information						
Skin corrosion/irrita Serious eye damage Respiratory or skin Germ cell mutageni Carcinogenity: Data NTP: No component IARC classified: Grou OSHA: No componer Reproductive toxici STOT-single exposu STOT-repeated expo Aspiration hazard: Potential health effe Inhalation: Expected Ingestion: Expected Skin: Expected to ca Eyes: Expected to ca Signs and symptom of the skin, asthma an	of this product present at levels of up 3: Not classifiable as to its carn at of this product present at levels ty: Data not available ure: The substance or mixture is boure: Data not available Data not available ects: to be irritating to respiratory tract to cause burns to the gastrointes use irritation and/or burns. As the ause irritation and/or burns. Cou	e irritant. e greater than or e cinogenicity to h s greater than or classified as sp t. t. tinal tract. e concentration Id cause cornea ealth effects abo	or time of exposure in l damage which may ove. Medical condition	ntified as a carcinoger dicant, single exposure ncreases, the extent c occur several days la	n or potential c e, category 3 v of damage incr ter.	with narcotic efferences.	
Section 12	Ecological Information						
Toxicity to daphnia a Toxicity to algae: Ch Persistence and deg Mobility in soil: No Other adverse effect Section 13 These disposal guid	mbusia affinis (fish, fresh water), and other aquatic invertebrate: alorella vulgaris (Algae), EC50 = gradability: No data available data available ts: An environmental hazard car Disposal Considerations delines are intended for the di different. Dispose of in acco Transport Information (US	s: Daphnia mag 2.5 mg/l/growth Bioaccumu PBT and vi not be excluded sposal of cata rdance with all	na (Crustacia), EC50 rate [Hydrogen perox Ilative potential: No PvB assessment: No d in the event of unpro- log-size quantities of local, state and fed	= 7.7 mg/l/24 hours [l ide] data available o data available ofessional handling or only. Federal regula	disposal. ations may ap	pply to empty c	
UN/NA number:	• • •	ing name: N	•				
Hazard class: No Exceptions: Not	t applicable Packi	n <b>g group</b> : N	0	Reportable Qua	ntity: No	Ma	arine pollutant: No
Section 15	Regulatory Information						
	to be listed if the CAS number for th	•					
Compone Hydrogen peroxide	nt	Listed	CERLCA (RQ) Not listed	RCRA code Not listed	DSL Listed	NDSL Not listed	CA Prop 65 This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16	Other Information						,
The information containe dent determinations of s	ed herein is furnished without warrant	ation from all sour	ces to assure proper use	of these materials and	the safety and h	ealth of employee	ered by them and must make indepen s. NTP: National Toxicology Program, osure. RE: Repeated Exposure.

Form 06/2015

# SAFETY DATA SHEET

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#### Section 1 Chemical Product and Company Identification

# HOME SCIENCE TOOLS

665 Carbon Street Billings, MT 59102 800-860-6272 www.homesciencetools.com

# CHEMTREC 24 Hour Emergency USA Phone Number (800) 424-9300

1 703-741-5500 (from anywhere in the world). For laboratory and industrial use only. Not for drug, food or household use.

# Product IODINE-POTASSIUM IODIDE SOLUTION

Synonyms Iodine-Iodide / Iodine Solution / Iodine / Iodine Lugol's Dilute / Gram's Iodine Solution / Dilute Lugol's Solution

#### Section 2 Hazards Identification

#### Signal word: WARNING

Pictograms: GHS07 / GHS09 Target organs: Thyroid, kidneys, endocrine system, skin, eyes, reproductive system. central nervous system.



#### **GHS Classification:**

Acute toxicity, dermal (Category 4) Acute toxicity, inhalation (Category 4) Aquatic toxicity, acute (Category 1)

#### GHS Label information: Hazard statement(s):

H312: Harmful in contact with skin. H332: Harmful if inhaled.

H400: Very toxic to aquatic life.

#### Precautionary statement(s):

P261: Avoid breathing mist/vapours/spray.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352: IF ON SKIN: Wash with plenty of water and soap.
P312: Call a POISON CENTER or doctor if you feel unwell.
P362+P364: Take off contaminated clothing and wash it before reuse.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312: Call a POISON CENTER or doctor if you feel unwell.
P312: Call a POISON CENTER or doctor if you feel unwell.
P391: Collect spillage.
P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

#### Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / Information on Ingredients						
Chemical Name		CAS #	%	EINECS		
Water Potassium iodide Iodine		7732-18-5 7681-11-0 7553-56-2	95.10% 3.05% 1.85%	231-791-2 231-659-4 231-442-4		
Section 4	First Aid Measures					

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: HARMFUL IF INHALED. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. Harmful if inhaled.

EYE CONTACT: MAY CAUSE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: HARMFUL IN CONTACT WITH SKIN. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. Harmful in contact with skin.

#### Section 5 Fire Fighting Measures

Extinguishing Media: Use any media suitable for extinguishing supporting fire.

General information: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

#### Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

#### Section 7 Handling & Storage

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. Keep out of reach of children. Use with adequate ventilation. Wash thoroughly after handling.

Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale vapors, mist or spray. Wash thoroughly after handling. Remove and wash clothing before reuse.

#### Storage: Store in a cool, well-ventilated area away from incompatible substances. Section 8 **Exposure Controls / Personal Protection** Chemical Name ACGIH (TLV) OSHA (PEL) NIOSH (REL) Exposure Limits: TWA: 0.01 ppm<sup>(IFV)</sup>/ STEL: 0.1 ppm<sup>(V)</sup> Iodine CAS # 7553-56-2 STEL: C 0.1 ppm/C 1 mg/m<sup>3</sup> STEL: C 0.1 ppm/C 1 mg/m<sup>3</sup> Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low. Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator. **Physical & Chemical Properties** Section 9 Appearance: Deep amber liquid. Evaporation rate (Water = 1): < 1 Partition coefficient: (n-octanol / water): Not applicable Odor: Characteristic odor Flammability (solid/gas): Not applicable. Auto-ignition temperature: Not applicable Odor threshold: Not applicable. Explosion limits: Lower / Upper: Not applicable Decomposition temperature: Data not available. pH: Data not available. Vapor pressure (mm Hg): 14 [water] Viscosity: Data not available. Melting / Freezing point: ~ 0°C (~ 32°F) [water] Vapor density (Air = 1): 0.7 [water] Molecular formula: Mixture Boiling point: ~ 100°C (212°F) [water] Relative density (Specific gravity): 1.0 [water] Molecular weight: Mixture Flash point: Not flammable. Solubility(ies): Complete in water. Section 10 Stability & Reactivity Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Stable under recommended storage conditions. Excessive temperatures which cause evaporation. Incompatibilities with other materials: Metals or unsaturated organic compounds, ammonia solutions or alkaline solutions of ammonia salts. Will form explosive nitrogen iodides when reacted with gaseous ammonia. Hazardous decomposition products: Toxic iodide fumes Section 11 **Toxicological Information** Acute toxicity: Oral-Rat LD50: 14,000 mg/kg [lodine CAS # 7553-56-2] Skin corrosion/irritation: Data not available Serious eve damage/irritation: Data not available Respiratory or skin sensitization: Inhalation-rat 3.1 mg/m3 / 24 hour / 13 weeks - continuous [lodine CAS # 7553-56-2] Germ cell mutagenicity: Data not available Carcinogenity: Data not available IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available Potential health effects: Inhalation: Symptoms include cough, wheezing, and labored breathing. Symptoms may be delayed. Ingestion: Causes abdominal pain, diarrhea, nausea, and vomiting. Ingestion of levels of 2-3 grams of iodine may cause death. Skin: Contact may cause redness and pain. Eyes: Contact causes watering of the eyes, redness and pain. Signs and symptoms of exposure: Effects of short-term exposure: Lachrymator. The substance is severely irritating to the eyes and the respiratory tract, and is irritating to the skin. Inhalation of the vapor may cause asthma-like reactions. Inhalation of the vapor may cause lung edema. The effects may be delayed. Effects of long-term exposure: Repeated or prolonged contact may cause skin sensitization in rate cases. Repeated or prolonged inhalation exposure may cause asthma-like syndrome. The substance may have effects on the thyroid. Specific data not available for this mixture. Exercise appropriate procedures to minimize potential hazards.. Additional information: RTECS #: NN1575000 [lodine CAS # 7553-56-2] Section 12 **Ecological Information** Toxicity to fish: Very toxic to aquatic life. Toxicity to daphnia and other aquatic invertebrates: No data available Toxicity to algae: No data available Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. **Disposal Considerations** Section 13 These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. Transport Information (US DOT / CANADA TDG) Section 14 UN/NA number: Not applicable Shipping name: Not Regulated Hazard class: Not applicable Packing group: Not applicable Reportable Quantity: No Marine pollutant: No Exceptions: Not applicable 2016 ERG Guide # Not applicable **Regulatory Information** Section 15 A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list. CERLCA (RQ) RCRA code DSL NDSL Component TSCA CA Prop 65 This product does not contain lodine Listed Not listed Not listed Listed Not listed any chemicals known to the State Potassium iodide Listed Not listed Not listed Listed Not listed of California to cause cancer or reproductive toxicity. Section 16 **Other Information** The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure,

ERG: Emergency Response Guidebook



# Safety Data Sheet

Revision Number: 013.0

Issue Date: 05/27/2015

# 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product identifier used on the label: Sta-Flo Concentrated Liquid Starch

Other means of identification: 719091, 719092

Recommended use of the chemical and restrictions on use: Fabric conditioner; No restrictions on use

Name, address and telephone number of the chemical manufacturer: The Dial Corporation, a Henkel Company 7201 E. Henkel Way Scottsdale, AZ 85255-9672 USA

> CHEMTREC: 1-800-424-9300 (24 hours daily) Internet: www.henkelna.com

Emergency telephone number: Medical Emergencies: 1-888-689-9082

# 2. HAZARD IDENTIFICATION

The hazards described in this OSHA Globally Harmonized System Safety Data Sheet (SDS) are not intended for consumers, and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

#### Classification of the substance or mixture in accordance with paragraph (d) of §1910.1200

HAZARD CLASS	HAZARD CATEGORY
None	None

Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200

Signal word:	Not prescribed
Hazard Statement(s):	Not prescribed
Symbol(s):	None

Not prescribed
Not prescribed
Not prescribed
Not prescribed

Hazards not otherwise classified: Not available.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### The following chemicals are classified as health hazards in accordance with paragraph (d) of § 1910.1200.

Chemical Name*	CAS Number (Unique Identifier)	Concentration
Borax	1330-43-4	0.1 – 1 %

\*The specific chemical identity and/or exact percentage (concentration) of composition has been withheld because a trade secret is claimed in accordance with paragraph (i) of §1910.1200.

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#### Description of necessary measures

Inhalation:	Remove from exposure area to fresh air. Treat symptomatically and supportively.
Skin contact:	Rinse affected area with large amounts of mild soap and water until no evidence of product remains. Discontinue
	exposure. Get medical attention if irritation persists.
Eye contact:	Rinse eyes with plenty of water until no evidence of product remains. Get medical attention if pain or irritation develops.
Ingestion:	Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. Contact physician or local
-	poison control center.

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

After eye contact: May cause mild transient irritation After skin contact: Repeated or prolonged excessive exposure may cause irritation or dermatitis. After ingestion: Nausea and possible vomiting may occur. After inhalation: Unlikely to occur due to the physical properties of the product. At elevated temperatures, vapors or mists may cause irritation.

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

After eye contact: Rinse eyes with plenty of water until no evidence of product remains. After skin contact: Rinse affected area with mild soap and water until no evidence of product remains. After ingestion: Dilution by rinsing the mouth and giving a glass of water to drink is generally recommended. After inhalation: Remove from exposure area to fresh air.

# **5. FIRE FIGHTING MEASURES**

#### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Dry chemical, carbon dioxide, water spray or regular foam. Unsuitable extinguishing media: None known

#### Specific hazards arising from the chemical

Oxides of carbon and oxides of nitrogen.

#### Special protective equipment and precautions for fire-fighters

In case of fire, wear a full-face positive-pressure self-contained breathing apparatus and protective suit. Shut off all ignition sources. Move containers from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Use flooding amounts of water as a fog, solid streams may be ineffective. Avoid breathing hazardous vapors, keep upwind.

# 6. ACCIDENTAL RELEASE MEASURES

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

Wear skin, eye and respiratory protection as recommended in Section 8. Stop or reduce any leaks if it is safe to do so. Spills present a slipping hazard. Keep unnecessary personnel away. Ventilate spill area if possible. Make sure area is slip-free before re-opening to traffic.

#### **Environmental Precautions**

Small or household quantities may be disposed in sewer or other liquid waste system. For larger quantities check with your local water treatment plant.

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

SMALL SPILLS: Contain and absorb with absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. Dispose in suitable waste container.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Do not get in eyes. Do not take internally. Use with adequate ventilation. Avoid generating aerosols and mists.

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

Store in original containers in a cool dry area. Storage areas for large quantities (warehouse) should be well ventilated. Keep the containers tightly closed when not in use.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.

Hazardous Component(s)	ACGIH	OSHA PEL	AIHA WEEL	OTHER
None	None	None	None	None

## Appropriate engineering controls

Provide local exhaust or general dilution ventilation to keep exposure to airborne contaminants below the permissible exposure limits where mists or vapors may be generated.

# Individual protection measures

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Liquid Starch

**Respiratory:** Air contamination monitoring should be carried out where mists or vapors are likely to be generated, to assure that the employees are not exposed to airborne contaminants above the permissible exposure limits.

Eye: Safety glasses are required to prevent eye contact where dusty conditions may occur.

**Hand/Body:** Protective gloves are required where repeated or prolonged skin contact may occur. Protective clothing is required where repeated or prolonged skin contact may occur.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	liquid, light blue
Odor:	floral, woody
Odor threshold:	Not available.
pH:	8.50 – 9.30 (25 °C)
Melting point/ range:	Not available.
Boiling point/range:	Not available.
Flash point:	Not available.
Evaporation rate:	Not available.
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Vapor pressure:	Not available.
Vapor density:	Not available.
Solubility in water:	Soluble
Partition coefficient (n-octanol/water)	): Not available.
	Not available.
Autoignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	60 - 220 mPa.s
VOC content:	Not available.
Specific gravity:	1.025 - 1.040 at 25 °C (77°F)

# **10. STABILITY AND REACTIVITY**

Reactivity:

This product may react with strong alkalies.

Chemical stability: Stable under normal ambient temperature (70°F, 21°C) and pressure (1 atm).

Possibility of hazardous reactions: Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

**Conditions to avoid:** Avoid storing in direct sunlight and avoid extremes of temperature.

Incompatible materials: Strong oxidizers and alkalis.

Hazardous decomposition products: Thermal decomposition products may include toxic oxides of sulfur and carbon, and hydrogen sulfide.

# 11. TOXICOLOGICAL INFORMATION

#### Likely routes of exposure including symptoms related to characteristics

Inhalation:Unlikely to occur due to the physical properties of the product. At elevated temperatures, vapors or mists may cause<br/>irritation.Skin contact:Repeated or prolonged excessive exposure may cause irritation or dermatitis.Eye contact:This product may cause slight irritation.Ingestion:May cause mild gastrointestinal irritation with nausea, vomiting, diarrhea and abdominal pain.Physical/Chemical:No physical/chemical hazards are anticipated for this product.

#### Other relevant toxicity information:

This product is laundry care product. Direct contact with eyes may cause irritation. No adverse effects are anticipated to skin from normal use.

#### Numerical measures of toxicity, including delayed and immediate effect

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Borax	Oral LD50 (RAT) = 2.660 mg/kg	Blood, Central nervous system,
	Dermal LD50 (RABBIT) = > 1.055 mg/kg	Gastrointestinal, Irritant, Kidney, Liver, Skin,
	Inhalation LC50 (RAT, $4 h$ ) = > 0,002 mg/l	Less weight gain and food intake.

#### Carcinogenicity information

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Borax	No	No	No

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Liquid Starch

# Mutagenicity Toxicity to reproduction

None of the ingredients in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). None of the ingredients in this product are known to cause mutagenicity. None of the ingredients in this product are known to have reproductive, fetal, or developmental hazards.

# **12. ECOLOGICAL INFORMATION**

#### **Aquatic Toxicity:**

This product is anticipated to be safe for the environment at concentrations predicted in household settings under normal use conditions. The following toxicity information is available for the hazardous ingredient(s) when used as technical grade and is provided as reference for the occupational settings.

#### Toxicity to fish:

The aquatic toxicity profile of this product has not been determined.

#### Toxicity to aquatic invertebrates:

The aquatic toxicity profile of this product has not been determined.

#### Toxicity to algae:

The aquatic toxicity profile of this product has not been determined.

#### Persistence and Degradability: No data available.

Bioaccumulation Potential: The bioaccumulation potential of this product has not been determined.

Mobility: The mobility of this product (in soil and water) has not been determined.

13. DISPOSAL CONSIDERATIONS		
Waste Number and Description:	Not regulated.	
Disposal Considerations: Disposal of products:	This product is not a RCRA hazardous waste and can be disposed of in accordance with federal, state and local regulations.	
Disposal of packages:	Place in trash.	
Additional information:	Observe all federal, state and local regulations when storing or disposing of this substance	

# **14. TRANSPORT INFORMATION**

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper shipping classification may vary by packaging, properties, and mode of transportation.

#### U.S. Department of Transportation Ground (49 CFR) F

Not regulated
None
None
None

#### International Air Transportation (ICAO/IATA)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

#### Water Transportation (IMO/IMDG)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None
Marine pollutant:	None

## **15. REGULATORY INFORMATION**

Occupational safety and health act: Hazard Communication Standard, 29 CFR 1910.1200(g) Appendix D: The Occupational Safety and Health Administration (OSHA) require that the Safety Data Sheets (SDSs) are readily accessible to employees for all hazardous chemicals in the workplace. Since the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers, this SDS may contain health hazard information not relevant to consumer use.

#### **United States Regulatory Information:**

TSCA 8 (b) Inventory Status: TSCA 12 (b) Export Notification: **CERCLA/SARA Section 302:** CERCLA/SARA Section 311/312: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory. None above reporting de minimis None above reporting de minimis Not available.

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None above reporting de minimis No California Proposition 65 listed chemicals are known to be present.

#### Canada Regulatory Information:

CEPA DSL/NDSL Status: One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.

# **16. OTHER INFORMATION**

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

#### This safety data sheet contains changes from the previous version in sections: 2, 11

Prepared by: R&D Support Services

**Issue date:** 05/27/2015

Supercedes: Rev. 12, 04/27/2015

# Issuing Date No data available

SAFETY DATA SHEET

Revision Date 13-May-2015

**Revision Number** 2



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

Product identifier				
Product Name	permanent marker black ink			
Other means of identification				
Synonyms	None			
Recommended use of the chemical and restrictions on use				
Recommended Use	Pens			
Uses advised against	No information available			
Details of the supplier of the safety data sheet				
Supplier Name	Wenzhou Aihao Pen Trade Co., Ltd			
Supplier Address	No.128, Wenchang Road, Longwan Zone Wenzhou Zhejiang 325011 CN			
Supplier Phone Number	Phone:86-13524536325 Contact Phone86-021-68622126			
Supplier Email	732314056@qq.com			
Emergency telephone number				

Emergency telephone number

# 2. HAZARDS IDENTIFICATION

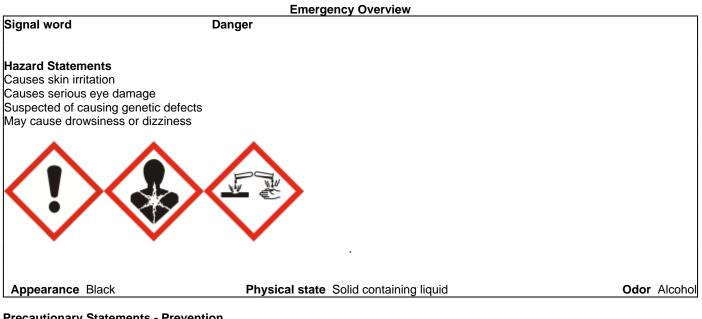
# **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Germ cell mutagenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3



#### **GHS Label elements, including precautionary statements**



# **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention Specific treatment (see supplemental first aid instructions on this label)

#### Eves

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

#### Skin

IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

#### **Precautionary Statements - Storage**

Store locked up Store in a well-ventilated place. Keep container tightly closed

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

Not applicable



## **Unknown Toxicity**

10.6% of the mixture consists of ingredient(s) of unknown toxicity

## **Other information**

May be harmful if swallowed Toxic to aquatic life with long lasting effects

# Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%	Trade Secret
Third Party Formulation (TP # 1196598)	Proprietary	30 - 60	*
Third Party Formulation (TP # 1196598)	Proprietary	15 - 40	*
Third Party Formulation (TP # 1196598)	Proprietary	1 - 5	*
Third Party Formulation (TP # 1196598)	Proprietary	1 - 5	*

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

# 4. FIRST AID MEASURES

# First aid measures

General Advice	Show this safety data sheet to the doctor in attendance.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Seek immediate medical attention/advice.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Ingestion	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

# Most important symptoms and effects, both acute and delayed

Most Important Symptoms and	Burning sensation. Inhalation of high vapor concentrations may cause symptoms
Effects	like headache, dizziness, tiredness, nausea and vomiting.

# Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.



# **5. FIRE-FIGHTING MEASURES**

## Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

# Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

# Specific hazards arising from the chemical

No information available.

Uniform Fire Code Irritant: Solid

Hazardous Combustion Products Carbon oxides.

Explosion Data Sensitivity to Mechanical Impact No.

#### Sensitivity to Static Discharge No.

# 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.

# 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required.
Other Information	Refer to protective measures listed in Sections 7 and 8.
Environmental precautions	
Environmental precautions	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.
Methods and material for containme	ent and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.



# 7. HANDLING AND STORAGE

## Precautions for safe handling

 Handling
 Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

 Conditions for safe storage, including any incompatibilities

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

 Incompatible Products
 Strong acids. Strong oxidizing agents. Strong bases.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Control parameters**

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Third Party Formulation (TP # 1196598)	STEL: 100 ppm TWA: 50 ppm	(vacated) TWA: 100 ppm (vacated) TWA: 360 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 540 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 360 mg/m <sup>3</sup> STEL: 150 ppm STEL: 540 mg/m <sup>3</sup>
Third Party Formulation (TP # 1196598)	TWA: 100 ppm	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> (vacated) TWA: 200 ppm (vacated) TWA: 500 mg/m <sup>3</sup> (vacated) STEL: 250 ppm (vacated) STEL: 625 mg/m <sup>3</sup>	IDLH: 800 ppm TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> STEL: 250 ppm STEL: 625 mg/m <sup>3</sup>

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

#### Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

#### Appropriate engineering controls

Engineering Measures	Showers
	Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection	None required for consumer use. If there is a risk of contact:. Tight sealing safety goggles.
Skin and body protection	None required for consumer use. Wear protective gloves and protective clothing. Long sleeved clothing. Impervious gloves.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or



smoke when using this product. Wash hands before breaks and immediately after handling the product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# **Physical and Chemical Properties**

**Particle Size Distribution** 

Physical state	Solid containing liquid		
Appearance	Black	Odor	Alcohol
Color	No information available	Odor Threshold	No information available
<b>D</b>			
Property	<u>Values</u>	Remarks Method	
рН	No data available	None known	
Melting / freezing point	No data available	None known	
Boiling point / boiling range	No data available	None known	
Flash Point	No data available	None known	
Evaporation Rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air			
Upper flammability limit	No data available		
Lower flammability limit	No data available		
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Specific Gravity	No data available	None known	
Water Solubility	Difficult solubility	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/wa	terNo data available	None known	
Autoignition temperature	No data available	None known	
Decomposition temperature	No data available	None known	
Kinematic viscosity	No data available	None known	
Dynamic viscosity	No data available	None known	
Explosive properties	No data available		
Oxidizing properties	No data available		
Other Information			
Softening Point	No data available		
VOC Content (%)	No data available		
Particle Size	No data available		

# **10. STABILITY AND REACTIVITY**

# **Reactivity**

No data available.

<u>Chemical stability</u> Stable under recommended storage conditions. <u>Possibility of Hazardous Reactions</u> None under normal processing. <u>Hazardous Polymerization</u> Hazardous polymerization does not occur.

<u>Conditions to avoid</u> None known based on information supplied. <u>Incompatible materials</u> Strong acids. Strong oxidizing agents. Strong bases. <u>Hazardous Decomposition Products</u> Carbon oxides.

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May cause drowsiness and dizziness.
Eye contact	Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Severely irritating to eyes. Causes serious eye damage. May cause burns. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Irritating to skin. Prolonged contact may cause redness and irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

# **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Third Party Formulation (TP # 1196598)	= 5200 mg/kg(Rat)	= 13 g/kg (Rabbit)	= 54.6 mg/L (Rat)4 h > 24 mg/L (Rat)1 h
Third Party Formulation (TP # 1196598)	= 1870 mg/kg(Rat)	-	> 13548 ppm (Rat)4 h
Third Party Formulation (TP # 1196598)	= 1219 mg/kg(Rat)	-	-

# Information on toxicological effects

# Symptoms

Erythema (skin redness). May cause redness and tearing of the eyes. May cause blindness. Burning. Inhalation of high vapor concentrations may cause symptoms like



headache, dizziness, tiredness, nausea and vomiting.					
Delayed and immediate effects as well as chronic effects from short and long-term exposure					
Sensitization	No informatio	on available.			
Mutagenic Effects	There is no c	There is no data available for this product. Contains a known or suspected mutagen.			
Carcinogenicity	The table bel	The table below indicates whether each agency has listed any ingredient as a carcinogen.			
Chemical Name	ACGIH	IARC	NTP	OSHA	
Third Party Formulation (TP # 1196598)		Group 3			
	ncy for Research on Cance as to Carcinogenicity in Hur				
Reproductive toxicity	No information	on available.			
STOT - single exposure	No information	No information available.			
STOT - repeated exposur	e No information	No information available.			
Chronic Toxicity		Contains a known or suspected mutagen. Possible risk of irreversible effects. Carcinogenic potential is unknown.			
Target Organ Effects	, ,	Respiratory system. Eyes. Skin. May affect the genetic material in germ cells (sperm and eggs). Central Nervous System (CNS). Gastrointestinal tract (GI).			

Aspiration Hazard No information available.

# Numerical measures of toxicity Product Information

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

ATEmix (oral) 2,458.00 mg/kg ATEmix (dermal) 23,718.00 mg/kg (ATE) ATEmix (inhalation-dust/mist) 99.60 mg/l

# **12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

Toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Third Party Formulation (TP # 1196598)		96h LC50: = 20.8 g/L (Pimephales promelas) 96h LC50: 4600 - 10000 mg/L (Leuciscus idus)		48h EC50: = 23300 mg/L
Third Party Formulation (TP # 1196598)		96h LC50: = 4480 mg/L (Pimephales promelas)	EC50 = 17700 mg/L 5 min EC50 = 45000 mg/L 5 h EC50 = 8686 mg/L 15 min EC50 = 980 mg/L 12 h	48h EC50: 3339 - 3977 mg/L 48h EC50: = 3642 mg/L
Third Party Formulation (TP # 1196598)	72h EC50: = 36 mg/L (Desmodesmus subspicatus)	96h LC50: = 5.6 mg/L (Cyprinus carpio)		48h EC50: = 5.2 mg/L

## Persistence and Degradability

No information available.

# **Bioaccumulation**

Chemical Name	Log Pow
Third Party Formulation (TP # 1196598)	-0.437
Third Party Formulation (TP # 1196598)	0.34
Third Party Formulation (TP # 1196598)	2

# Other adverse effects

No information available.

# **13. DISPOSAL CONSIDERATIONS**

# Waste treatment methods

Disposal methods	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.
Contaminated Packaging	Dispose of contents/containers in accordance with local regulations.

# California Hazardous Waste Codes 331

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Third Party Formulation (TP # 1196598)	Toxic
	Ignitable



# **14. TRANSPORT INFORMATION**

DOT Proper Shipping Name Hazard Class	NOT REGULATED NON REGULATED N/A
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA_ Proper Shipping Name Hazard Class	Not regulated NON REGULATED N/A
IMDG/IMO Hazard Class Marine Pollutant	Not regulated N/A Product is a marine pollutant according to the criteria set by IMDG/IMO
RID	Not regulated
ADR	Not regulated
ADN	Not regulated
	15. REGULATORY INFORMATION
International Inventories	

TSCA DSL Complies All components are listed either on the DSL or NDSL.

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

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	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

This product does not contain any Proposition 65 chemicals.

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Third Party Formulation (TP # 1196598)	Х	Х	Х		
Third Party Formulation (TP # 1196598)	Х	Х	Х		

# International Regulations

## Mexico

## National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Third Party Formulation (TP # 1196598)		Mexico: TWA 200 ppm
(15-40)		Mexico: TWA 500 mg/m <sup>3</sup>
		Mexico: STEL 250 ppm
		Mexico: STEL 625 mg/m <sup>3</sup>

Mexico - Occupational Exposure Limits - Carcinogens

# Canada

WHMIS Hazard Class

Not determined

# **16. OTHER INFORMATION**

NFPA HMIS	Health Hazards 2 Health Hazards 3 *	Flammability 0 Flammability 0	Instability 0 Physical Hazard 0	Physical and Chemical Hazards - Personal Protection X
Chronic Hazard Star	<b>Legend</b> * = Chronic He	ealth Hazard		X
Prepared By				
Revision Date Revision Note	13-May-20 No informa	015 ation available		

# Disclaimer

The information provided in this 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

