

SAFETY DATA SHEET



SDS No.: 8.0
 Revision: February 21, 2020
 Date Created: May 8, 2018

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: EasiStrip SUPRA One Step Ink & Emulsion Remover
General Use: Emulsion Remover
Product Description: Liquid

MANUFACTURER

Easiway Systems, Inc.
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Easiway Systems Contract Number MIS3609005

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

GHS CLASSIFICATION OF SUBSTANCE

Flammable Liquid	Not Applicable
Aspiration Toxicity	Not Applicable
Skin Corrosion/Irritation	Category 2 - Thyroid
Eye Corrosion/Irritation	Category 1
Sensitization	Category 1 B - Skin (Benzenesulfonic acid, C ₁₀ -C ₁₆ -alkyl derivatives)
Carcinogenicity	Not Rated Under GHS
Specific Organ Toxicity Repeated Exposure	Not Rated Under GHS
Specific Organ Toxicity Single Exposure	Not Rated Under GHS
Reproductive Toxicity	Not Rated Under GHS
Acute Toxicity	Not Rated Under GHS
Germ Cell mutagenicity	Not Rated Under GHS
Corrosive to Metals	Not Rated Under GHS; G31 Corrosion test completed for more concentrated similar material.
Hazardous to the aquatic environment	Category 2 - Acute

Hazard Category - means the division of criteria within each hazard class, e.g. acute toxicity includes five hazard categories and flammable liquids include four hazard categories. These categories compare hazard severity within a hazard class. "GHS Classification of Substance" means the material hazard class under that particular category and should not be taken as a comparison of hazard categories more generally. Degree of severity under GHS is "1" being the most severe and sequential numbers indicating correspondingly less severity. "Not Classified Under GHS" does not have characteristics that fall into any of the categories for that hazard class.

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GHS LABEL ELEMENTS

Hazard Pictograms:



thyroid

eye

skin
sensitization

Signal Word:

DANGER

Hazard Statements:

H315 - Causes skin irritation

H318 - Causes serious eye damage

H373 - May cause damage to thyroid through prolonged or repeated ingestion of iodine containing ingredients

H402 - Harmful to aquatic life

H317 - May cause an allergic skin irritation

Precautionary Statements

General:

P101-If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103-Read label before use.

Prevention:

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves. Wear eye or face protection.

P264 - Wash hands thoroughly after handling.

Response:

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 advice/attention.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Tape off immediately all contaminated clothing. Rinse skin with water/shower.

P310 - Immediately call a doctor, a POISON CENTER.

P314 - Get medical advice/attention if you feel unwell.

P333+P313 - If skin irritation or rash occurs: get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

Storage/Disposal:

P403+235+404-Store in well-ventilated place. Keep cool. Store in closed container.

P501-Dispose of contents/container in accordance with local/regional/federal regulations.

Other hazards which do not result in classification for Hazards

None Known

Not Otherwise Classified (HNOC) and Physical Hazards Not Otherwise Classified (PHNOC)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Mixture
Other means of identification:	None
CAS number for mixture:	Not Applicable
Product Code:	Dip Solution

<u>Component</u>	<u>wt%</u>	<u>CAS Registry #</u>
Sodium Metaperiodate	2 - 5	7790-28-5
Sulfuric Acid	trace	7664-93-9
Benzenesulfonic acid, C ₁₀ - C ₁₆ alkyl derivatives	<1	68584-22-5
Sodium Dodecyl Diphenyl Oxide Disulfonate	4 - 6	119345-04-9
Sodium Sulfate	trace	7757-82-6
Water	balance	

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There are no additional ingredients present which, with the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

DESCRIPTION OF NECESSARY FIRST AID MEASURES

INHALATION:

Remove to fresh air and keep at rest in a comfortable position. Get medical attention if symptoms persist after moving to fresh air. Give oxygen if available, symptoms persist, and medical attention is not immediate.

EYE CONTACT:

Remove contact lens (if present). Rinse eyes immediately with plenty of clean water for at least 15 minutes. If necessary, gently hold the eyelid open during the flush. Seek medical attention following initial eye washing. If irritation persists after the 15 minute eye washing, seek medical attention.

SKIN CONTACT:

Immediately wash skin with mild soap solution to remove material from skin. Remove affected clothing and launder prior to re-use. If skin damage occurs other than redness, seek medical attention and provide this SDS to attending medical personnel.

INGESTION:

Not a likely route of exposure based on use. If accidental ingestion does occur, rinse mouth immediately with water. Seek immediate medical attention and provide SDS to attending medical personnel. DO NOT INDUCE VOMITING unless instructed to do so by trained medical personnel/Poison Control Center.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

Potential acute health/effects:

Eye Contact	Corrosive effects if left in the eye.
Inhalation	not appreciable vapor hazard; mist will be corrosive and irritating to respiratory tract.
Skin Contact	redness and irritation on prolonged contact.
Ingestion	Digestive disruption

Over-exposure signs/symptoms

Eye Contact	corrosive damage to the eye.
Inhalation	Exposure to a mist may cause nose, throat, and lung corrosive effects.
Skin Contact	skin damage and dermatitis; skin sensitization
Ingestion	Effects related to iodine exposure.

Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary:

Notes to physician	Product is water based, acidic, and contains an oxidizing agent with iodine in its structure.
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Specific treatments	No specific treatment
Protection of First-Aiders	No special precautions required

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5. FIRE FIGHTING MEASURES

Flashpoint and Method: >93°C
Flammable Limits: Not Determined
Autoignition Temperature: Not Determined

GENERAL HAZARD:

Product is water based and not a significant fire hazard. Sodium metaperiodate is an oxidizer and may contribute oxygen to a fire. The product has an acid pH and hot mist may be corrosive on contact.

SUITABLE EXTINGUISHING MEDIA:

Water fog or fine spray; dry chemical fire extinguishers; carbon dioxide fire extinguishers; foam; alcohol resistant foams (ATC type). Use water fog or fine spray for cooling exposed containers to control heating.

UNSUITABLE EXTINGUISHING MEDIA:

Any extinguisher that is unsuitable for oxidizing agents.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Product is acidic and contains an oxidizing agent. It may react with materials in the fire area, particularly if heated as occurs during fire conditions. Iodine may be present in the airborne vapor created during the fire.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS

Carbon dioxide, aldehydes, and iodine containing compounds.

SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS

Keep containers cool; mist will be acidic and the product contains both surfactants and an oxidizing agent. Any air contaminants are likely to be corrosive to skin and respiratory tract. Wear protective clothing and avoid contact.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTING

In the event of a fire where this product is present in quantity, wear full protective clothing and NIOSH-approved self contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Do not enter an area having containers of the product without self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL RESPONSE:

Product is water based and reactive. Product in small quantities will immediately react with the land materials creating something less toxic than itself unless. The product will add iodine to the land. That may be of concern depending on the location.

WATER SPILL:

Product is water based and will immediately disperse. Control product dispersal as much as you can within the time immediately after the spill. The product is aquatically toxic and will have immediate effects on life in the water body if a significant amount is spilled.

RECOMMENDED DISPOSAL:

Disposal options may be dictated by other materials mixed with this material. Dispose of in accordance with local, state, and federal regulations using methods which consider recycling/reclamation. Neutralization and sewer disposal may be an option but verify with local municipality.

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7. HANDLING AND STORAGE

Precautions for safe handling

Protective measures

Don appropriate personal protective equipment per Section 8 of this SDS. Do not handle until all safety precautions have been read and understood. Do not get into eyes or on skin or clothing. If a mist is created do not breathe mist. Wear appropriate respirator if a mist is created. Keep in original container or a product manufacturer approved alternate. Keep tightly closed when not in use. Store away from caustics and organics. Store under ambient conditions (close to 21 C) and atmospheric pressure. Eating, drinking, and smoking is prohibited when working with this product. Workers should wash hands prior to leaving work area and eating, drinking, or smoking

Store in accordance with local regulations. Store with other oxidizing agents away from metals, and caustics. Keep container tightly closed when not in use. If material is transferred to a different container, verify the container can be used with the product.

Advice on general occupational hygiene

Conditions for safe storage, including any incompatibilities

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

OCCUPATIONAL EXPOSURE LIMITS

Substance	Exposure Limit		
Sodium metaperiodate (TLV set for iodides in general measured as inhalable fraction and vapor and not specific for sodium metaperiodate)	Federal Government -	TWA: 0.01ppm	8 hrs. STEL :
	CA Alberta Provincial -	TWA: 0.1 ppm	8 hrs STEL :
	CA British Columbia Provincial -	TWA: 0.1 ppm	8 hrs STEL :
	CA Manitoba Provincial -	TWA: 0.1 ppm	8 hrs STEL :
	CA New Brunswick Provincial -	TWA: 0.1 ppm	8 hrs STEL :
	CA Newfoundland & Labrador Provincial -	TWA: 0.1 ppm	8 hrs STEL :
	CA Northwest Territories Territory -	TWA: 0.1 ppm	8 hrs STEL :
	CA Nova Scotia Provincial -	TWA: 0.1 ppm	8 hrs STEL :
	CA Nunavut Territory -	TWA: 0.1 ppm	8 hrs STEL :
	CA Ontario Provincial -	TWA: 0.1 ppm	8 hrs STEL :
	CA Prince Edward Island Provincial -	TWA: 0.1 ppm	8 hrs STEL :
	CA Quebec Provincial -	TWA: 0.1 ppm	8 hrs STEL :
	CA Saskatchewan Provincial -	TWA: 0.1 ppm	8 hrs STEL :
	CA Yukon Territory -	TWA: 0.1 ppm	8 hrs STEL :
Sulfuric Acid	Federal Government -	TWA: 0.2 mg/m ³	8 hrs. STEL :
	CA Alberta Provincial -	TWA: 0.2 mg/m ³	8 hrs. STEL :
	CA British Columbia Provincial -	TWA: 0.2 mg/m ³	8 hrs. STEL :
	CA Manitoba Provincial -	TWA: 0.2 mg/m ³	8 hrs. STEL :
	CA New Brunswick Provincial -	TWA: 0.2 mg/m ³	8 hrs. STEL :
	CA Newfoundland & Labrador Provincial -	TWA: 0.2 mg/m ³	8 hrs. STEL :
	CA Northwest Territories Territory -	TWA: 0.2 mg/m ³	8 hrs. STEL :
	CA Nova Scotia Provincial -	TWA: 0.2 mg/m ³	8 hrs. STEL :
	CA Nunavut Territory -	TWA: 0.2 mg/m ³	8 hrs. STEL :
	CA Ontario Provincial -	TWA: 0.2 mg/m ³	8 hrs. STEL :
	CA Prince Edward Island Provincial -	TWA: 0.2 mg/m ³	8 hrs. STEL :
	CA Quebec Provincial -	TWA: 0.2 mg/m ³	8 hrs. STEL :
	CA Saskatchewan Provincial -	TWA: 0.2 mg/m ³	8 hrs. STEL :
	CA Yukon Territory -	TWA: 1 mg/m ³	8 hrs STEL :

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APPROPRIATE ENGINEERING CONTROLS:

Provide adequate general and local exhaust ventilation to maintain levels below established exposure limits. Provide eyewash stations and safety showers (if it is used in a fixed facility routinely using the product in a manner that full body exposure is possible).

Provide hand washing facilities for routine use by personnel using the material.

ENVIRONMENTAL EXPOSURE CONTROLS

Airborne emissions are expected to be minimal and below the need to control. Verify waste water generated through use of the product can be sewered prior to using the product and sewerage the product. Product is corrosive to metals and is likely to degrade metal surfaces over periodic or long term contact.

INDIVIDUAL PROTECTION MEASURES

Hygiene Measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the work period. Ensure eye wash stations are in close proximity to the work area.

Provide hand wash facilities.

Eye/face Protection

Splash goggles and apron should be worn when pouring this material to avoid contact with the liquid. Hand protection is recommended when there is possible direct contact with the liquid. Glove choice should be appropriate for the chemical blend and the specific activity being performed. NOTE: nitrile gloves are a general purpose glove available in a wide variety of thicknesses and protect against most chemicals. Elbow length gloves are recommended when pouring this product.

Skin Protection

Depends on the extent of expected exposure. Elbow length gloves suitable for acidic water based chemicals with oxidizing properties are recommended. Product contains a potential skin sensitizer. Those with a predisposition to skin related allergies should avoid direct skin contact with the product.

Body Protection

The need for full body protection depends on the use and production of mist and aerosols. If a wet environment is created, a disposable water repellent suit is recommended.

Respiratory Protection

Product is not sufficiently volatile to be hazardous in vapor form. If creating a mist, the airborne product levels could exceed exposure standards and respiratory protection may be required. Respiratory protection should be suitable for both acids and oxidizers. Consult your safety supplier as to appropriate available respiratory protection.

EXPOSURE EVALUATION:

Exposures depend on activities being performed and the ventilation in the area.

Personal exposure monitoring can be performed by the employer to determine his/her employee exposures to the product during routine use at the facility. It is beyond the responsibility of the product supplier to estimate/determine airborne exposure in a user's facility.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure:	Not Determined	Vapor Density:	Heavier than air
Specific Gravity:	1.03	Evaporation Rate:	Not Determined
Solubility in Water:	Soluble	Freezing Point:	Not Determined
Melting Point:	Not Applicable	Odor:	Mild
pH:	2.2 - 2.8	Appearance:	Clear, light yellow
Boiling Point:	Not Determined	Physical State:	Liquid
Viscosity:	Not Determined	Flammable Range:	Not Applicable
Flash Point:	>93°C	VOC content:	Not Applicable
Decomposition temp:	Not Determined	Odor Threshold	Not Determined
Partition coefficient:	Not Determined		
n-octanol/water			

10. STABILITY AND REACTIVITY

REACTIVITY

Sodium metaperiodate component is an oxidizer and may intensify a fire by providing oxygen under the right conditions.

CHEMICAL STABILITY

This product is stable if kept in its container and not mixed with other chemicals.

POSSIBILITY OF HAZARDOUS REACTIONS

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Combustible materials, reducing agents, organic materials, caustics.

CONDITIONS TO AVOID

Avoid storing or mixing with incompatible materials as heat and possible air contaminants could be generated. Avoid storing in direct contact with metals.

INCOMPATIBLE MATERIALS

Caustics and reducing agents and metals.

HAZARDOUS DECOMPOSITION PRODUCTS:

None if stored properly and not mixed with incompatible chemicals.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

<u>Component</u>	<u>Acute Test</u>	<u>Value</u>	<u>Species</u>
Sodium Metaperiodate	LD50 intraperitoneal	58 mg/kg	Mouse
Sodium Metaperiodate	EPISKIN Human Skin Model Test	Corrosive Category 1C (exposures between 1 and 4 hrs with observations up to 14 days)	
Sodium Metaperiodate	LD50 oral	264 mg/kg	Rat
Sulfuric Acid	LD50 oral	2140 mg/kg	Rat
Sulfuric Acid	LC50 inhalation	510 mg/m ³ - 2hr	Rat
Benzenesulfonic acid,	LD50 oral	775 mg/kg	Rat
Benzenesulfonic acid,	LD50 dermal	2000 mg/kg	Rabbit
Sodium Dodecyl Diphenyl	LD50oral	>2000 mg/kg	Mouse

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IRRITATION/CORROSION

Acidic pH, oxidizing agent, and surfactants will cause irritation to eyes, skin, and respiratory tract.

SENSITIZATION

Benzenesulfonic acid, C₁₀-C₁₆-alkyl derivatives are identified as skin sensitizers.

MUTAGENICITY

No mutagenic components identified in the product.

CARCINOGENICITY

No carcinogenic components identified in the product.

REPRODUCTIVE TOXICITY

No reproductively toxic components identified in the product.

TERATOGENICITY

No teratogenic components identified in the product.

STOT - SINGLE EXPOSURE

The acidic pH in combination with an oxidizing agent and a surfactant makes this material irritating on prolonged single exposure.

STOT - REPEATED EXPOSURE

Repeated exposure does not create more adverse conditions other than repeated exposure to an iodine containing compound and its effects on the thyroid and the potential for skin sensitization to the product.

ASPIRATION HAZARD

Not an aspiration hazard.

POTENTIAL ACUTE HEALTH EFFECTS

Eye contact	Acidity, oxidizer, and surfactant makes it corrosive to the eyes.
Inhalation	Inhalation as an aerosol/mist can be corrosive to the respiratory tract.
Skin Contact	Acidity, oxidizer, and surfactant makes it irritating to the skin; potential skin sensitizer
Ingestion	Expected to be corrosive to the digestive tract with ingestion of significant iodine.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

Eye contact	Immediate irritation
Inhalation	Irritation to nose, throat, lungs
Skin contact	Redness and irritation
Ingestion	Possible irritation to the digestive tract if sufficient amount is ingested.

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURES

Short term exposure

Potential immediate effects	Irritation
Potential delayed effects	Irreversible damage to the exposed area; skin sensitization

Long term exposure

Potential immediate effects	Irritation
Potential delayed effects	Over exposure to iodine; contact dermatitis

POTENTIAL CHRONIC HEALTH EFFECTS

General	Over exposure to iodine; skin sensitization to the product.
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NUMERICAL MEASURES OF TOXICITY

Acute toxicity estimates	<u>acute toxicity point estimate - ATE</u>
Route	
Oral	2000
Dermal	50
Inhalation	0.05 as a mist

12. ECOLOGICAL INFORMATION

TOXICITY

<u>Species</u>	<u>Test Information</u>	<u>Concentration</u>	<u>Component</u>
Oncorhynchus mykiss (rainbow)	semi-static LC50	>0.17 mg/l-96hr	Sodium periodate
Daphnia magna (Water flea)	static test LC50	>0.18 mg/l-48hr	Sodium periodate
Oryzias latipes	LC50 96hr	4.5 mg/l	Dodecylbenzenesulfonic acid
Daphnia magna (Water flea)	EC50 48 hr	3.4 mg/l	Dodecylbenzenesulfonic acid
Selenastrum capricornutum (algae)	EC50 72 hr	19 mg/l	Dodecylbenzenesulfonic acid
Freshwater	PNEC	0.013 mg/l	Sodium Dodecyl Diphenyl Oxide Disulfonate
Marine Water	PNEC	0.001 mg/l	Sodium Dodecyl Diphenyl Oxide Disulfonate

PERSISTENCE AND DEGRADABILITY

Expected to biodegrade in the environment contributing iodine to the environment.

BIOACCUMULATIVE POTENTIAL

No data available but not expected to bioaccumulate.

MOBILITY IN SOIL

Soil/water partition coefficient (K_{oc})	No data available
Mobility	No data available

OTHER ADVERSE EFFECTS

Contributes iodine to the environment.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Generating waste is to be avoided and/or minimized whenever possible. Disposal of this product, solutions and any by-products should comply with the local regulatory requirements. Waste from use of this product is likely to be able to be disposed of through the sewer system but verify this with local authorities prior to adopting this method of disposal. Unused, excess material beyond its manufacturer shelf life should be disposed of in accordance with local regulatory requirements.

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14. TRANSPORT INFORMATION

Consolidated Transportation of Dangerous Goods Regulations including Amendment SOR/2019-101

TDG Classification	EasiStrip SUPRA One Step Ink & Emulsion Remover
UN Number	NA
Shipping Name and Description	NA
Transport Hazard Class	NA
Packing Group Category	NA
Special Provisions	NA
Explosive Limit and Limited Quantity Index	NA
Excepted Quantities	NA
ERAP Index	NA
Passenger Carrying Vessel Index	NA
Passenger Carrying Road Vehicle or Passenger Carrying	NA

INTERNATIONAL AIR TRADE ASSOCIATION (IATA)

IATA 58th Edition Information	EasiStrip SUPRA One Step Ink & Emulsion Remover
UN Number	NA
Proper Shipping Name Description	NA
Class or Division	NA
Hazard Label(s)	NA
Packing Group	NA
EQ - 2.6 Dangerous Goods in Excepted Quantities	NA
Passenger Aircraft - Limited Quantity Packing Instructions	NA
Passenger Aircraft - Limited Quantity Max net Qty/Pkg	NA
Passenger Aircraft - Packing Instructions	NA
Passenger Aircraft - Quantity Max Net Qty/Pkging	NA
Cargo Aircraft only - Packing Instructions	NA
Cargo Aircraft only - Max Net Qty/Pkging	NA
Special Provisions 4.4	NA
ERG Code	NA

INTERNATIONAL MARITIME DANGEROUS GOODS CODE (IMDG CODE)

IMDG 2016 EDITION	EasiStrip SUPRA One Step Ink & Emulsion Remover
UN Number	NA
Proper Shipping Name Description	NA
Class or Division	NA
Subsidiary Risks	NA
Packing Group	NA
Special Provisions	NA
Limited Quantities	NA
Excepted Quantities	NA
Packing Instructions	NA
Packing Provisions	NA
IBC Instructions 4.1.4	NA
IBC Provisions 4.1.4	NA
Portable tanks and bulk containers - tank instructions	NA
Portable tanks and bulk containers - provisions	NA
EmS	NA
Stowage and Handling	NA
Segregation	NA
Properties and observations	NA

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SPECIAL PRECAUTIONS FOR USER

Transport within user's premises: always transport in containers that are upright upright and secure.
Ensure that persons transporting the product are trained in spill or accident prevention.

15. REGULATORY INFORMATION

CANADIAN LISTS

Canadian NPRI

The following components are listed: **NONE**

CEPA Toxic Substances

The following components are listed: **NONE**

Canada Inventory

All components are listed or exempted.

16. OTHER INFORMATION

CREATION/REVISION SUMMARY:

Created on: May 8, 2018

Revision History: complete revision February 19, 2020 to Canadian WHMIS 2015 GHS compliant SDS requirements

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