

Safety Data Sheet

Issue Date: 11-Mar-2020

Revision Date: 18-Mar-2020

Version 1

1. Identification

Product identifier

Product Name Purging Solution GP Hybrid

Other means of identification

SDS # FSP-002-MX

Product Code LS. 17

Recommended use of the chemical and restrictions on use

Recommended Use For industrial use

Details of the supplier of the safety data sheet

Manufacturer Address

Fresh Start Polymer Solutions
6-14845 Yonge ST.
Suite 116
Aurora, Ontario L4G 6H8

Emergency telephone number

Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

Company Phone Number (289) 894-3723

2. Hazard(s) identification

Classification

Acute toxicity - Oral	Category 4 - (H302)
Skin corrosion/irritation	Category 3 - (H316)
Serious eye damage/eye irritation	Category 2 - (H319)
Respiratory sensitization	Category 1 - (H334)
Skin sensitization	Category 1 - (H317)
Reproductive toxicity	Category 1B - (H360)
Oxidizing solids	Category 3 - (H272)

Label elements

Signal word

Danger

Hazard statements

H302 - Harmful if swallowed
H316 - Causes mild skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H360 - May damage fertility or the unborn child
H272 - May intensify fire; oxidizer



Exclamation mark
Health hazard
Flame over circle

Precautionary Statements - Prevention

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P284 - In case of inadequate ventilation wear respiratory protection
P272 - Contaminated work clothing should not be allowed out of the workplace
P220 - Keep away from clothing and other combustible materials
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Precautionary Statements - Response

P308 + P313 - IF exposed or concerned: Get medical advice/attention

Eyes

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

Skin

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap
P362 + P364 - Take off contaminated clothing and wash it before reuse
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

Inhalation

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor

Ingestion

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
P330 - Rinse mouth

Fire

P370 + P378 - In case of fire: Use water spray to extinguish

Precautionary Statements - Storage

P405 - Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. Composition/information on ingredients**Substance**

Not applicable.

Mixture

Chemical name	CAS No	Weight-%
Proprietary	-	2-6
Proprietary	-	2-6

4. First-aid measures**Description of first aid measures**

Inhalation	If inhaled, removed to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Eye contact	In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid.
Skin contact	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical aid if symptoms occur. Wash clothing before reuse.
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Give large quantities of water for dilution. Never give anything by mouth to an unconscious person. Seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms.	Harmful if swallowed Causes mild skin irritation May cause an allergic skin reaction Causes serious eye irritation May cause allergy or asthma symptoms or breathing difficulties if inhaled May damage fertility or the unborn child
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Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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5. Fire-fighting measures

Suitable Extinguishing Media	Water fog or water spray.
Unsuitable extinguishing media	Not determined.
Specific hazards arising from the chemical	Decomposes at high temperatures, resulting in toxic and corrosive products.
Explosion Data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
Special protective actions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Vacuum or sweep material and place in a disposal container. Avoid generating dust. Provide ventilation. Keep combustibles (wood, paper, oil, etc) away from spilled material.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with skin, eyes or clothing. Keep container tightly closed. Keep from contact with clothing and other combustible materials. Do not breathe dust. Use only with adequate ventilation. Inform laundry personnel of contaminant's hazards. Do not take working clothes home.

Conditions for safe storage, including any incompatibilities

Storage Conditions Do not store near combustible materials. Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry area away from incompatible substances. Keep away from acids. Store protected from moisture. Avoid storage on wood floors.

Packaging materials Strong oxidizing agents. Organic solvents. Ethers. Gasoline. Lubricating oils.

8. Exposure controls/personal protection

Control parameters

Exposure Limits NOM-010-STPS-2014.

Chemical name	TWA	STEL	Ceiling Limit Value
Proprietary	2 mg/m ³	6 mg/m ³	-
Proprietary	0.1 mg/m ³	-	-

Appropriate engineering controls

Engineering controls Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear appropriate protective eyeglasses or chemical safety goggles.

Skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Respiratory protection	Use an approved respirator if exposure limits are exceeded or if irritation develops or persists.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Solid
Appearance	Not determined
Color	Not determined
Odor	Not determined
Odor Threshold	Not determined

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	
Melting point / freezing point	No data available	
Boiling point / boiling range	No data available	
Flash point	No data available	
Evaporation Rate	No data available	
Flammability (Solid, Gas)	No data available	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor Pressure	No data available	
Vapor Density	No data available	
Relative Density	1.06 +/- 0.1	
Water Solubility	No data available	
Solubility in other solvents	No data available	
Partition Coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic Viscosity	No data available	
 <u>Other information</u>		
Oxidizing properties	No data available	
Explosive properties	No data available	
Molecular weight	No data available	
Liquid Density	No data available	
Bulk density	No data available	

10. Stability and reactivity

Reactivity	Not reactive under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to Avoid	Avoid heat, spark, open flames and other ignition sources. Incompatible materials.
Incompatible materials	Strong oxidizing agents. Organic solvents. Ethers. Gasoline. Lubricating oils.
Hazardous decomposition products	None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation	Do not inhale.
Eye contact	Avoid contact with eyes.
Skin contact	Avoid contact with skin.
Ingestion	Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Please see section 4 of this SDS for symptoms.

Acute toxicity

Numerical measures of toxicity

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

Oral LD50	1,918.90 mg/kg
ATEmix (dermal)	33,429.60 mg/kg

Unknown acute toxicity 11.5 % of the mixture consists of ingredient(s) of unknown toxicity
 11.5 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
 11.5 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
 11.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
 11.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
 11.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Proprietary	> 2000 mg/kg (Rat) = 8 g/kg (Rat)	-	-
Proprietary	= 2660 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2 mg/m ³ (Rat) 4 h
Proprietary	= 895 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 21.6 mg/L (Rat) 4 h
Proprietary	> 5000 mg/kg (Rat)	-	-
Proprietary	= 4090 mg/kg (Rat)	-	-
Proprietary	= 3000 mg/kg (Rat) = 3 g/kg (Rat)	> 2000 mg/kg (Rat)	-

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

Interactive effects	Not classified.
Skin corrosion/irritation	Causes mild skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.

Respiratory or skin sensitization May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity Not classified.

Carcinogenicity Group 3 IARC components are "not classifiable as human carcinogens".

Chemical name	ACGIH	IARC	NTP	Mexico
Proprietary	-	Group 3	-	-
Proprietary	-	Group 3	-	-

Legend

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity May damage fertility or the unborn child.

STOT - single exposure Not classified.

STOT - repeated exposure Not classified.

Aspiration hazard Not classified.

Other information Not classified.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Proprietary	2.6 - 21.8: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 158: 96 h Desmodesmus subspicatus mg/L EC50	340: 96 h Limanda limanda mg/L LC50	-	1085 - 1402: 48 h Daphnia magna mg/L LC50
Proprietary	-	771: 96 h Lepomis macrochirus mg/L LC50 static 771: 96 h Oncorhynchus mykiss mg/L LC50 static	-	133: 48 h Daphnia magna mg/L EC50
Proprietary	-	10000: 96 h Lepomis macrochirus mg/L LC50	-	-
Proprietary	242: 120 h Nitzschia mg/L EC50	300: 96 h Lepomis macrochirus mg/L LC50 static 310 - 1220: 96 h Pimephales promelas mg/L LC50 static	-	265: 48 h Daphnia magna mg/L EC50
Proprietary	-	1516: 96 h Lepomis macrochirus mg/L LC50	-	120: 72 h Daphnia magna mg/L EC50

Persistence/Degradability No data available.

Bioaccumulation No data available.

Other Adverse Effects No data available.

13. Disposal considerations

Waste Treatment Methods

Waste from residues/unused products	Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.
Contaminated packaging	Do not reuse empty containers.

14. Transport information

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances

<u>MEX</u>	Not regulated
<u>TDG</u>	Not regulated
<u>DOT</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG</u>	Not regulated

15. Regulatory information

REGULATORY INFORMATION

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

Chemical name	TSCA	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Proprietary	X	X	X	X	X	X	X	X
Proprietary	X	X	X		X	X	X	X
Proprietary	X	X	X	X	X	X	X	X
Proprietary	X	X	X	X	X	X	X	X
Proprietary	X	X	X	X	X	X	X	X
Proprietary	X	X	X	X	X	X	X	X
Proprietary	X	X	X	X	X	X	X	X
Proprietary	X	X	X	X	X	X	X	X
Proprietary	X	X	X	X	X	X	X	X

Legend:

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

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

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

16. Other information

<u>NFPA</u>	Health hazards Not determined	Flammability Not determined	Instability Not determined	Physical and chemical properties Not determined
<u>HMIS</u>	Health hazards Not determined	Flammability Not determined	Physical hazards Not determined	Personal protection Not determined

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGl(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 RTECS (Registry of Toxic Effects of Chemical Substances)
 World Health Organization

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NOM-018-STPS-2015

The information is believed to be accurate, but it is not exhaustive and must be used only as guidance. It is based on the current state of knowledge of the chemical substance or mixture and is applicable to the appropriate safety precautions for the product.

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