

1. IDENTIFICATION

Product Name HAIL MARY

Product Code

Recommended use and restrictions

Intended use Cleaning agent

COMPANY IDENTIFICATION

Surface Cleaning Innovations

10445 Cogdill Rd,

Knoxville, TN 37932

Phone (865) 343-0712

EMERGENCY TELEPHONE NUMBER

CHEMTREC +1 800-424-9300

2. HAZARDS IDENTIFICATION

Hazard Classification

Serious Eye Irritation Category 2

Skin Irritation Category 2

Hazard Pictograms



Signal Word

WARNING!

Hazard Statements

H302: Harmful if swallowed

H315: Causes skin irritation

H319: Causes serious eye irritation

Precautionary Statements

P264: Wash skin thoroughly after handling

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P301+312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P501: Dispose of contents/container to an approved waste disposal facility in accordance with local/regional/national/international regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Nature Blend of alkalis, surfactants, and solvents

Hazardous Ingredients and Impurities

Chemical Name	CAS#	Percentage
Sodium metasilicate pentahydrate	6834-92-0	1 – 5%
Alcohols, C9-11, ethoxylated	68439-46-3	1 – 5%
Isopropyl alcohol	67-63-0	1 – 5%
2-butoxy ethanol	111-76-2	1 – 5%

4. FIRST AID MEASURES

Description of first-aid measures

General Advice

- First Aid responders should pay attention to self-protection and use the recommended protective clothing. If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Show this material safety data sheet to the doctor in attendance.

In case of inhalation

- Move affected individual to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration; if by mouth-to-mouth use rescuer protection (pocket mask, etc.). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician if necessary.

In case of skin contact

- In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

In case of eye contact

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Seek medical advice

In case of ingestion

- If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Most important symptoms and effects, both acute and delayed

- Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.
- Skin contact may aggravate an existing skin disease.

Notes to physician

- All treatments should be based on observed signs and symptoms of distress in the patient.
- Treat symptomatically.
- There is no antidote.

5. FIREFIGHTING MEASURES

Flash Point > 201°F (Pensky Marten Closed Cup)

Autoignition Temperature No data available

Flammability/Explosive limit No data available

Extinguishing media

Suitable extinguishing media

- Water fog or spray
- Dry chemical fire extinguishers
- Foam
- Carbon dioxide CO₂

Unsuitable extinguishing media

- None known

Special hazards arising from the substance or mixture

Specific hazards during fire fighting

- Hazardous decomposition products may form while on fire

Hazardous combustion products

- Oxides of carbon

Advice for fire fighters

Special protective for fire fighters

- Wear a positive-pressure self-contained breathing apparatus (SCBA) and full protective clothing

Firefighting methods

- Do not use a direct water stream as it may spread fire.
- Isolate fire and deny unnecessary entry. Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- Isolate area and deny unnecessary entry
- Wear suitable protective equipment.
- Refer to Section 8 "Exposure controls/ personal protection"
- Ventilate area of leak or spill

Environmental precautions

- Prevent spill material from entering soil, ditches, waterway or groundwater
- Spills may be reportable to the National Response Center and/or to state and local agencies

Methods and materials for containment and cleaning up

- Absorb material with sand, dirt, diatomaceous earth, vermiculite, etc...
- Shovel or sweep up material
- Place in a container for disposal according to local, state, or federal regulations

7. HANDLING AND STORAGE

Precautions for safe handling

- Wear personal protective equipment and observe good industrial hygiene practices.

Conditions for safe storage, including incompatibilities

- Store in the original container.
- Keep the container tightly closed when not in use.

- Keep away from open flames, hot surfaces, and ignition sources
- Keep away from any incompatible materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Due to variations in safety procedures, work environments, and handling practices, these recommendations should be viewed as general guidance. Most equipment manufactures can assist with the use and maintenance of worker protection equipment.

Control parameters

Component	Regulation	Type of Listing	Value
Isopropyl alcohol	ACGIH	TWA	200 ppm
2-butoxy ethanol	ACGIH	TWA	20 ppm
	OSHA	TWA	50 ppm
Sodium metasilicate pentahydrate	OSHA	TWA	15 mg/m3
	ACGIH	TWA	15 mg/m3

Exposure controls

Engineering measures

- Use engineering controls to keep airborne levels below exposure limits to minimize employee exposures.
- Effective exhaust ventilation system
- Eye wash facilities and emergency shower should be available when handling this product

Individual protection measures

- Eye/face protection: Safety glasses with side shields
- Skin/hand protection: Wear suitable protective gloves, clothing, and footwear.
- Respiratory protection: Wear suitable respiratory equipment in cases of insufficient ventilation. Select NIOSH.MSHA approved equipment in accordance to industrial recommendations or regulatory standards.

Hygiene measures

- Practice good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, smoking, applying cosmetics, or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

<u>Physical state</u>	Liquid
<u>Form</u>	Liquid
<u>Color</u>	Colorless
<u>Odor</u>	None
<u>Odor Threshold</u>	No data available
<u>pH</u>	12.8
<u>Melting/freezing point</u>	<32° F
<u>Boiling point</u>	212° F
<u>Flash Point</u>	> 201°F (Pensky Marten Closed Cup)
<u>Evaporation Rate</u>	No data available
<u>Flammability (solid)</u>	No data available
<u>Flammability (gas)</u>	No data available
<u>Flammability (liquid)</u>	No data available
<u>Upper/lower flammability or explosive limits</u>	

<u>Lower (%)</u>	No data available
<u>Upper (%)</u>	No data available
<u>Autoignition temperature</u>	No data available
<u>Vapor pressure</u>	No data available
<u>Vapor density</u>	No data available
<u>Relative Density</u>	1.01 (25°C)
<u>Solubility</u>	Soluble (water)
<u>Partition coefficient</u>	No data available
<u>Decomposition temperature</u>	No data available
<u>Viscosity</u>	No data available
<u>Volatiles by volume</u>	88%

10. STABILITY AND REACTIVITY

<u>Reactivity</u>	No dangerous reaction known under conditions of normal use.
<u>Chemical stability</u>	Product is stable under normal conditions. Mixing with incompatible materials may cause splattering and release of large amounts of heat.
<u>Possible hazardous reactions</u>	
<u>Conditions to avoid</u>	Mixing with incompatible materials
<u>Incompatible Materials</u>	Strong acids and oxidizing agents
<u>Hazardous decomposition products</u>	Oxides of carbon

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

<u>Inhalation</u>	Inhalation of mists may be slightly irritating to the respiratory tract
<u>Skin contact</u>	Causes skin irritation
<u>Eye contact</u>	Causes serious eye irritation
<u>Ingestion</u>	May be harmful if swallowed.

Acute toxicity

<u>Acute oral toxicity</u>	LD50 (rat): > 2,000 mg/kg
<u>Acute inhalation toxicity</u>	No data available
<u>Acute dermal toxicity</u>	LD50 (rabbit): > 2,000 mg/kg
<u>Acute toxicity (other)</u>	No data available

Skin corrosion/irritation

Causes skin irritation

Serious eye damage/irritation

Causes serious eye irritation

Respiratory or skin sensitization

Does not cause sensitization

Germ cell mutagenicity

No data available

Carcinogenicity

Not classified as a carcinogen by IARC, ACGIH, NTP, or OSHA

Toxicity for reproduction and development

<u>Reproductive toxicity</u>	Not expected to cause reproductive effects.
<u>Developmental toxicity</u>	Not expected to cause developmental effects.

Specific target organ toxicity

<u>Single exposure</u>	No data available
<u>Repeated exposure</u>	No data available

Aspiration toxicity No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute toxicity to fish	No data available
Acute toxicity to aquatic invertebrates	No data available
Toxicity to aquatic plants	No data available
Toxicity to microorganisms	No data available
Chronic toxicity to fish	No data available
Chronic toxicity to aquatic invertebrates	No data available
Chronic toxicity to aquatic plants	No data available

Persistence and degradability

Biodegradability Readily biodegradable

Bioaccumulative potential

Partition coefficient: n-octanol/water	No data available
Bioconcentration factor (BCF)	No data available

Mobility in soil No data available

Other adverse effects No data available

13. DISPOSAL CONSIDERATIONS

Disposal instructions Dispose of contents/container in accordance with local/state/federal regulations.

Hazardous waste code Not regulated as a hazardous waste.

Waste from residues/unused products Dispose of contents/container in accordance to local/state/federal regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORTATION INFORMATION

	UN Number	Description	Hazardous Class	Packing Group	Label
DOT		Not regulated for transport			
IATA		Not regulated for transport			
IMDG		Not regulated for transport			

Marine Pollutant (Yes/No) No

Notes Please refer to latest shipping document for the most up to date shipping information including exemptions and special circumstances. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations

15. REGULATORY INFORMATION

Inventory Information

- United States TSCA Inventory

Status

On TSCA Inventory

- Canadian Domestic Substances List (DSL) All components of this product are on the Canadian DSL
- Australia Inventory of Chemical Substances (AICS) On the inventory, or in compliance with the inventory
- Japan. CSCL - Inventory of Existing and New Chemical Substances On the inventory, or in compliance with the inventory
- Korea. Korean Existing Chemicals Inventory (KECI) On the inventory, or in compliance with the inventory
- China. Inventory of Existing Chemical Substances in China (IECSC) On the inventory, or in compliance with the inventory

US. EPA EPCRA SARA Title III

SARA Sections 311/312

Fire Hazard	Reactivity Hazard	Pressure Hazard	Acute Health	Chronic Health
No	No	No	Yes	No

SARA Section 313 Toxic Chemicals

Component/Ingredient	CAS #	Concentration
2-butoxy ethanol	111-76-2	1 – 5%

SARA Section 302 Extremely Hazardous Substance

Component/Ingredient	CAS #	Reportable Qty.
No component listed		

SARA Section 304 Emergency Release Notification

Component/Ingredient	CAS #	Reportable Qty.
No component listed		

US. EPA CERCLA Hazardous Substances and Reportable Quantities

Component/Ingredient	CAS #	Reportable Qty.
No component listed		

Clean Air Act (CAA)

Component/Ingredient	CAS #
No component listed	

Safe Drinking Water Act (SDWA)

Component/Ingredient	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
No component listed				

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

Component/Ingredient	CAS #
No component listed	

16. OTHER INFORMATION

NFPA (National Fire Protection Association) – Classification

Health 2

Flammability	1
Reactivity	0

HMIS (Hazardous Materials Identification System – Classification)

Health	2
Flammability	1
Reactivity	0

PPE Determined by user; dependent on local conditions

Further Information

Issue Date	10/16/25
Revision Date	10/16/25
Version #	01
Revision Note	None

Disclaimer

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