GRA Services International

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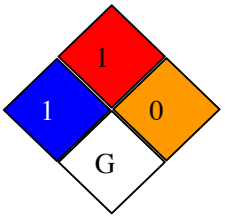


Healthy	1
Fire	1
Physical Hazard	0
Personal Protection	G

Material Safety Data Sheet

According to EC/1907/2006

Section 1: Chemical Product and Company Identification

Product Name: Secure Set Mix & Pour Side B
Chemical Family: Polyether Polyol
Trade Name: Secure Set Mix & Pour
Product Number:
CAS Number: Proprietary
Application: Raw material for producing expanding foam
Company: GRA Services International
5540 NE 2nd Street
Oklahoma City, OK 73117
Email: info@graservices.com

Section 2: Composition and Information on Ingredients

No.	Ingredient Name	CAS No	Weight
I	Polyol	Not available	98.0%min
II	Water	7732-18-5	2.0%max

Section 3: Hazards Identification

Emergency Overview

Appearance: Light yellow to brownish red transparent liquid

Odor: No data available

Hazards of product: May be harmful if swallowed.

Potential Health Effects

Eye Contact: May cause slight temporary eye irritation. Corneal injury is unlikely.

Skin Contact: Essentially nonirritating to skin. Material may be handled at elevated temperatures; contact with heated material may cause thermal burns.

Skin Absorption: Prolonged skin contact is unlikely to result in absorption of harmful amounts.

Inhalation: At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous. Vapor from heated material or mist may cause respiratory irritation.

Ingestion: Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

Section 4: First Aid Measures

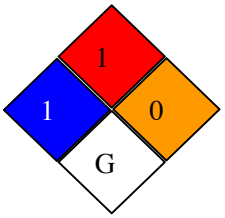
Eye Contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Skin Contact: Wash skin with plenty of water.

Inhalation: Move person to fresh air; if effects occur, consult a physician.

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

Notes to Physician: If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.



Healthy	**1**
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Section 5: Fire and Explosion Data

Extinguishing Media: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Do not use direct water stream. May spread fire. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

Unusual Fire and Explosion Hazards: Container may rupture from gas generation in a fire situation.

Hazardous Combustion Products: Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide. Nitrogen oxides.

Section 6: Accidental Release Measures

Steps to be Taken if Material is Released or Spilled: Contain spilled material if possible. Absorb with materials such as: Dirt. Sand. Sawdust. Collect in suitable and properly labeled containers. Wash the spill site with water. See Section 13, Disposal Considerations, for additional information.

Personal Precautions: Isolate area. Refer to Section 7, Handling, for additional precautionary measures. Keep unnecessary and unprotected personnel from entering the area. Spilled material may cause a slipping hazard. Use appropriate safety

equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Section 7: Handling and Storage

Handling

General Handling: Do not swallow. Wash thoroughly after handling. Product shipped/handled hot can cause thermal burns.

Other Precautions: Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion

Storage

Store in the following material(s): Carbon steel. Stainless steel. Polypropylene. Polyethylene-lined container. Teflon. Glass-lined container. Aluminum. Plasite 3066 lined container. Plasite 3070 lined container. 316 stainless steel.

Shelf life: Use within 24 Months

Section 8: Exposure Controls/Personal Protection

Exposure Limits

None established

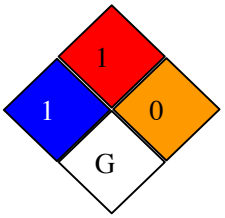
Personal Protection

Eye/Face Protection: Use safety glasses.

Skin Protection: No precautions other than clean body-covering clothing should be needed. When handling hot material, protect skin from thermal burns. Selection of specific items will depend on the operation.

Hand protection: Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized. Use gloves with insulation for thermal protection, when needed.

Respiratory Protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection



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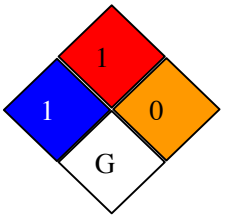
when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator. The following should be effective types of **air-purifying respirators:** Organic vapor cartridge with a particulate pre-filter.
Ingestion: Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

Engineering Controls
Ventilation: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Section 9: Physical and Chemical Properties

Appearance: Light yellow to brownish red transparent liquid
Odor: No data available
Flash Point: Closed Cup > 177 °C (> 351 °F) ASTM D93
Flammable Limits In Air: Lower: No test data available
Upper: No test data available
Autoignition Temperature: No test data available
Vapor Pressure: Literature negligible at ambient temperature
Boiling Point (760 mmHg): Literature decomposes prior to boiling.
Vapor Density (Air = 1 @ 20): >1.00 Literature
Specific Gravity(Water = 1 @ 20): > 1.00 Literature
Freezing Point: No test data available
Solubility in Water @ 20 : Literature slightly soluble
pH: 7 - 12.5 Estimated
Kinematic Viscosity: No test data available



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Section 10: Stability and Reactivity Data

Stability/Instability
Stable under recommended storage conditions. See Storage, Section 7.
Conditions to Avoid: Product can oxidize at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.

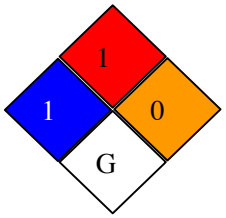
Incompatible Materials: Avoid contact with oxidizing materials. Avoid contact with: Strong acids. Avoid unintended contact with isocyanates. The reaction of polyols and isocyanates generates heat.

Hazardous Polymerization
Will not occur by itself

Thermal Decomposition
Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Carbon dioxide. Alcohols. Ethers. Hydrocarbons. Ketones. Polymer fragments.

Section 11: Toxicological Information

Acute Toxicity
Ingestion
Typical for this family of materials. Estimated LD50, Rat 1,000 - 2,000 mg/kg
Skin Absorption
Typical for this family of materials. Estimated LD50, Rabbit > 2,000 mg/kg
Repeated Dose Toxicity
Based on available data, repeated exposures are not anticipated to cause significant adverse effects.



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Section 12: Ecological Information

CHEMICAL FATE

Movement & Partitioning
Based on information for a similar material: Bioconcentration potential is low (BCF less than 100 or log Pow less than 3)

Persistence and Degradability
Based on information for a similar material: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

ECOTOXICITY
Based on information for a similar material: Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 >100 mg/L in the most sensitive species tested).

Section 13: Disposal Considerations

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. HBL HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Recycler，Reclaimer，Incinerator or other thermal destruction device. For additional information, refer to: Handling & Storage Information, MSDS Section 7 Stability & Reactivity Information, MSDS Section 10 Regulatory Information, MSDS Section 15 As a service to its customers, HBL can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess or manage chemicals or plastics, and that manage used drums. Telephone HBL's Customer Information Group

at 0086-025-58390063 or 0086-025-57350966 for further details.

Section 14: Transport Information

DOT Non-Bulk
NOT REGULATED

DOT Bulk
NOT REGULATED

IMDG
NOT REGULATED

ICAO/IATA
NOT REGULATED

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15: Regulatory Information

National Regulations
Unlisted Substance: No.

State Component Listing:
State Comment: None identified.
National Regulations
Chinese DSL Registration: No

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.
Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312
Immediate (Acute) Health Hazard No

Delayed (Chronic) Health Hazard	No
Fire Hazard	No
Reactive Hazard	No

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HMIS (U.S.A.):
Health Hazard: 1
Fire Hazard: 1
Reactivity: 0
Personal Protection: g

National Fire Protection Association (U.S.A.):
Health: 1
Flammability: 1
Reactivity: 0
Specific hazard: none

Protective Equipment:
Gloves.
Lab coat.
Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
Safety glasses.

Section 16: Other Information

Disclaimer:
Supplier gives no warranty of merchantibility or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own test to determine the quality an suitability of the product. Supplier expressly disclaims any all liability for incidental and /or consequential property damage arising out of the use of this product .No information provided shall be deemed safety data sheet before handling product.

Completed on January 7th, 2021
Replaces Sheet Dated /
Completed By
GRA Services International