



A HUBER COMPANY

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03
Canadian Workplace Hazardous Material Information System (WHMIS) 2015
Mexico NOM-018-STPS-2000; NOM-018-STPS-2015
Globally Harmonized System (GHS)

GEOVIS® XT

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name: GEOVIS® XT

Pure substance/mixture: Substance

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use: Rheology Modifier.

1.3. Details of the supplier of the safety data sheet

Distributor: Silver Fern Chemical, Inc.
2226 Queen Anne Avenue North
Suite C
Seattle, WA 98109 USA

Customer Service: 1-866-282-3384

E-mail: info@silverfernchemical.com

Website: www.silverfernchemical.com

1.4. Emergency telephone number (24-hour): Infotrac: +1-800-535-5053; Outside USA & Canada +1-352-323-3500

SECTION 2: Hazards identification

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2.1. Classification of the substance or mixture

Physical Hazards	Not classified
Health Hazards	Not classified
Environmental Hazard	Not classified
OSHA Regulatory Status	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
GHS Classification	Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

2.2. Label elements

Symbols/Pictograms	None
Signal Word	Warning
Hazard Statements	May form combustible dust concentrations in air

Precautionary Statements

Prevention	Employ good industrial hygiene practice Do not handle until all safety precautions have been read and understood. Do not breathe dust Wear protective gloves/protective clothing/eye protection/face protection Combustible dust may form combustible (explosive) dust-air mixtures Take precautionary measures against static discharges
Response	IF exposed or concerned: Get medical advice/attention Wash with plenty of soap and water
Storage	Store away from incompatible materials Keep in a dry place
Disposal	Dispose of contents/containers in accordance with local regulations

Hazards not otherwise classified (HNOC) COMBUSTIBLE DUST MAY FORM COMBUSTIBLE (EXPLOSIVE) DUST/AIR MIXTURES. Slippery, can cause falls if walked on.

SECTION 3: Composition/information on ingredients

Pure substance/mixture

Substance

Chemical Name	CAS Number	TSCA: United States	Canada (DSL)	Mexico	REACH registration number	OSHA Regulatory Status	WHMIS	% by Wt
Diutan gum	595585-15-2 125005-87-0	Y:595585-15-2	Y: 125005-87-0	Y	01-000001836 6-66 (US), 01-211986479 5-20 (China).	Combustible dusts	--	--

Legend

X / Y: Complies - / N: Not Listed, Exempt

SECTION 4: First aid measures

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4.1. Description of first aid measures

General Advice	Employ good industrial hygiene practice. Wear suitable protective clothing, gloves and eye/face protection. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. When in doubt or if symptoms are observed, get medical advice.
Eye Contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin Contact	Wash with plenty of soap and water.
Ingestion	Rinse mouth thoroughly with water.
Inhalation	Do not breathe dust. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Aspiration hazard	Not an expected route of exposure.
4.2. Most important symptoms and effects, both acute and delayed	Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.
4.3. Indication of any immediate medical attention and special treatment needed	Treatment should be symptomatic and supportive. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

SECTION 5: Firefighting measures

General Advice	Treat as "Class A" fire. Product will burn when in contact with a flame Self extinguishes when ignition source is removed. Tends to smoulder.
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5.1. Extinguishing media

Suitable Extinguishing Media	Water spray (fog). Foam. Dry chemical. Carbon dioxide (CO2).
Unsuitable Extinguishing Media	None known.

5.2. Special hazards arising from the substance or mixture

Dust Explosion Hazard	Avoid dust formation. Can contain sufficient fines to cause a combustible dust explosion. Do not breathe smoke, gases or vapors generated
Hazardous Combustion Products	Carbon dioxide Carbon monoxide

5.3. Advice for firefighters

Special protective equipment for firefighters	Wear a self-contained breathing apparatus and chemical protective clothing.
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Fire-fighting measures Water mist may be used to cool closed containers. Combustible dust may form combustible (explosive) dust-air mixtures.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Keep unauthorized personnel away. Ensure adequate ventilation. Avoid dust formation. Use only non-sparking tools. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Use personal protection recommended in Section 8.

For non-emergency personnel Keep unauthorized personnel away.

For emergency responders Keep unauthorized personnel away. Use personal protection recommended in Section 8.

6.2. Environmental precautions Avoid runoff to waterways and sewers.

6.3. Methods and material for containment and cleaning up Large Spill: Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust. Small Spill: Vacuum or sweep material and place in a disposal container. The use of water wash down is not recommended unless the spilled material is already wet.

6.4. Reference to other sections Section 8: Exposure controls and personal protection. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Avoid exposure - obtain special instructions before use
Do not handle until all safety precautions have been read and understood.
Minimize dust generation and accumulation
Do not breathe dust
Ensure adequate ventilation
Wear appropriate personal protective clothing to prevent skin contact
Handle in accordance with good industrial hygiene and safety practice
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Use only non-sparking tools

7.2. Conditions for safe storage, including any incompatibilities Keep container tightly closed and dry. Store away from incompatible materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

OSHA *Dust: OSHA has not established specific exposure limits for this material. However, OSHA has established limits for particulates not otherwise regulated (PNOR) which are the least stringent exposure limits applicable to dusts.

Diutan gum - 595585-15-2
OSHA

Not established

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Predicted No Effect Concentration (PNEC) No information available

Derived No Effect Level (DNEL) No information available

Biological Limit Values: No information available

8.2. Exposure controls

Engineering Measures Provide a good standard of controlled ventilation (5 to 10 air changes per hour). Use exhaust ventilation to keep airborne concentrations below exposure limits. In case of insufficient ventilation, wear suitable respiratory equipment.

Personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).

Skin and Body Protection Wear suitable protective clothing.

Hand Protection For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

Respiratory Protection In case of inadequate ventilation wear respiratory protection.

Thermal hazards None known. Wear suitable protective clothing.

Hygiene Measures Follow general hygiene considerations recognized as common good workplace practices. The worker should wash daily at the end of each work shift, and prior to eating, drinking, smoking, etc.

Environmental Exposure Controls Dispose of in accordance with local regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Solid. Powder.
Color	White to light tan
Odor	Slight odor
Odor Threshold	No information available
pH:	Neutral
Melting Point / Melting Range	Decomposes from approx. 448± 0.5 K without melting (OECD 101). Not highly flammable with a relative self-ignition temperature of 351°C. (93/69/33C Method A10, A16).
Boiling Point	Not applicable
Freezing Point	Not applicable
Flash Point:	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable

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Water Solubility Soluble
Partition coefficient No data available
Oxidizing Properties Not oxidizing

SECTION 10: Stability and reactivity

10.1. Reactivity	None
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	No specific hazard known
10.4. Conditions to avoid	Dust formation Keep away from heat, sparks and flame Strong oxidizing agents
10.6. Hazardous decomposition products	None known

SECTION 11: Toxicological information
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General Information Users are advised to consider national Occupational Exposure Limits or other equivalent values.

Information on Likely Routes of Exposure

Inhalation	Do not breathe dust.
Skin	Not a skin sensitizer. Prolonged or repeated contact may dry skin and cause irritation.
Eyes	Dust contact with the eyes can lead to mechanical irritation.
Ingestion	Ingestion is not a likely route of exposure.
Aspiration hazard	Not an expected route of exposure.

11.1. Information on toxicological effects**Diutan gum - 595585-15-2**

Oral LD50	>5000 mg/kg (rat)
Inhalation LC50	>5 mg/l 4-hour (rat)
Chronic Effects	No adverse effects observed in long-term feeding studies with rats (up to 1,000 mg/kg/day). (OECD 407)
Mutagenicity	Chromosomal Abberations (mammalian): Non-clastogenic. (OECD 473) AMES Test- S. Typhimurium, E. Coli: Non-mutagenic. (OECD 471)

Acute Toxicity Based on available data, the classification criteria are not met.

Chronic Effects Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory Sensitization Based on available data, the classification criteria are not met.

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Skin Corrosion/Irritation	Based on available data, the classification criteria are not met.
Skin Sensitization	Based on available data, the classification criteria are not met.
Mutagenicity	Based on available data, the classification criteria are not met.
Reproductive Toxicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - Single exposure	No data available.
Specific target organ toxicity - Repeated exposure	No data available.

SECTION 12: Ecological information

12.1. Ecotoxicity Not considered to be harmful to aquatic life.

Diutan gum - 595585-15-2**96-Hour LC50****72-Hour EC50****48-Hour EC50****3-Hour EC50**

Rainbow trout: > 100 ai/l: No Observed Effect Concentration: 100 ai/l (OECD 203)
Scenedesmus subspicatus: >100 ai/l active ingredient. No observed Effect Concentration: 100 ai/l (OECD 201)
Daphnia magna: >100 ai/l active ingredient. No observed Effect Concentration: 100 ai/l (OECD 202)
Sewage sludge: > 1000 mg ai/l. No Observed Effect Concentration: 1000 mg ai/l (OECD 209)

12.2. Persistence and degradability Readily biodegradable.

12.3. Bioaccumulative potential This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

Partition coefficient No data available.

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects None known

SECTION 13: Disposal considerations
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13.1. Waste treatment methods

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- Contaminated Packaging** Product residue may remain in empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.
- Waste codes** Waste codes should be assigned by the user based on the application for which the product was used
- Disposal Methods** Dispose of waste product or used containers according to local regulations

Diutan gum - 595585-15-2

European Waste Catalog 160306

SECTION 14: Transport information**Mode of Transportation (Road, Water, Air, Rail)**

TDG -Canada	Not regulated
US DOT	Not regulated
ADR	Not regulated
RID	Not regulated
ADN	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

- 14.1. UN number** None
- 14.2. UN proper shipping name** None
- 14.3. Transport hazard class(es)** None
- 14.4. Packing group** None
- 14.5. Environmental hazards** No
- 14.6. Special precautions for user** Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Global Inventories****Pure substance/mixture** Substance

Chemical Name	CAS Number	EC No	REACH registration number	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Diutan gum	595585-15-2 125005-87-0	439-070-6	01-000001 8366-66 (US), 01-211986 4795-20 (China).	Y:595585-15-2	Y: 125005-87-0	registration number: T-110439	N	Y: 125005-87-0	Y	Y	Registered	Y	Y:595585-15-2

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US Federal Regulations**EPA****CERCLA**

Not listed

CAA (Clean Air Act)

Not listed

CWA (Clean Water Act)

Not listed

U.S. State Right-to-Know Regulations**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)**

This product does not contain any Proposition 65 chemicals

CANADA**WHMIS:**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

SECTION 16: Other information

Prepared by	CP Kelco Global Regulatory Affairs Email: Regulatory.Affairs@cpkelco.com
Reason for Version	OSHA (Occupational Safety and Health Administration of the US Department of Labor).
Training Advice	Do not handle until all safety precautions have been read and understood.
Abbreviations and acronyms	International Agency for Research on Cancer (IARC) International Air Transport Association (IATA) International Maritime Dangerous Goods (IMDG) International Uniform Chemical Information Database (IUCLID) Workplace Hazardous Materials Information System (WHMIS) status and classification EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification DOT (Department of Transportation) OSHA (Occupational Safety and Health Administration of the US Department of Labor) TWA - Time-Weighted Average Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) PPE - Personal Protection Equipment NIOSH - National Institute for Occupational Safety and Health TDG (Transport of Dangerous Goods) Canada CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) Reportable Quantity (RQ) (RQ/% in mixture) STEL - Short Term Exposure Limit TLV® - Threshold Limit Value Derived No Effect Level (DNEL)

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SVHC: Substances of Very High Concern for Authorization:
Land transport (ADR/RID)
Biochemical oxygen demand (BOD)
Chemical oxygen demand (COD)
ICAO (air)
(IMDG) International Maritime Dangerous Goods
Positive Pressure Self-Contained Breathing Apparatus (SCBA)
Predicted No Effect Concentration (PNEC)
Globally Harmonized System (GHS)

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