

## SECTION 1 – IDENTIFICATION

- 1(a): PRODUCT IDENTIFIER: HC-ELITE GEL
- 1(b): OTHER MEANS OF IDENTIFICATION: Liquid Xanthan Gum Suspension
- 1(c): RECOMMENDED USE AND RESTRICTION: Viscosifier  
No restriction information available.
- 1(d): MANUFACTURER: Houston Chemical  
P.O. Box 1183  
Cypress, TX 77410  
USA
- 1(e): EMERGENCY PHONE NUMBER: 281-955-0041

## SECTION 2 – HAZARD(S) IDENTIFICATION

2(a): CLASSIFICATION IN ACCORDANCE WITH PARAGRAPH (d) of §1910.1200

|                                     |                     |
|-------------------------------------|---------------------|
| Serious Eye Damage / Eye Irritation | Category 2 – (H319) |
|-------------------------------------|---------------------|

2(b): HAZARD SYMBOL:



SIGNAL WORD:

Warning

HAZARD STATEMENT(S):

H319 – Causes serious eye irritation

PRECAUTIONARY STATEMENT(S):

Prevention:

P264 - Wash face, hands and any exposed skin thoroughly after handling.  
P280 – Wear protective gloves/protective clothing/eye protection/face protection.

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

Storage:

P337 + P313 – If eye irritation persists: Get medical advice/attention.

Disposal:

P404 – Store in a closed container

P501 – Dispose of contents/container in accordance with local/regional/national regulations.

2(c): HAZARDS NOT OTHER CLASSIFIED:

None known.

## SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

| Substances                        | CAS Number | Percent  | GHS Classification – US |
|-----------------------------------|------------|----------|-------------------------|
| Diethylene glycol monobutyl ether | 112-34-5   | 30 – 60% | Eye Irrit. 2A (H319)    |

## SECTION 4 – FIRST AID MEASURES

### 4(a): DESCRIPTION OF FIRST AID MEASURES:

|             |  |
|-------------|--|
| Inhalation: | If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.   |
| Eyes:       | Flush well with water for at least 15 minutes, holding eyelids open. Remove Any contact lenses. If irritation persists, seek medical attention.  |
| Skin:       | Wash with soap and water. Get medical attention if irritation persists.  |
| Ingestion:  | Do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. |

### 4(b): MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

Causes eye irritation

### 4(c): INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

Note to physician: Treat symptomatically

## SECTION 5 – FIRE FIGHTING MEASURES

### 5(a): SUITABLE (AND UNSUITABLE) EXTINGUISHING MEDIA:

|                                 |   |
|---------------------------------|---|
| Suitable extinguishing media:   | Water, fog, carbon dioxide, foam, dry chemical. |
| Unsuitable extinguishing media: | None known.                                     |

### 5(b): SPECIFIC HAZARDS ARISING FROM THE CHEMICAL OR MIXTURE:

Fire may produce toxic gases

### 5(c): SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:

Wear a self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode with Appropriate turn-out gear and chemical resistant personal protective equipment.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

### 6(a): PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:

|                            |   |
|----------------------------|---|
| Personal precautions:      | Avoid contact with skin, eyes and clothing. Ventilate area. |
| Protective equipment:      | Wear appropriate personal protective equipment.             |
| Environmental precautions: | Prevent from entering sewers, waterways or low areas.       |

### 6(b): METHODS FOR MATERIAL CONTAINMENT AND CLEANING UP:

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Scoop up and isolate for proper disposal.

## SECTION 7 – HANDLING AND STORAGE

### 7(a): PRECAUTIONS FOR SAFE HANDLING:

Wear personal protective equipment. Avoid contact with eyes, skin or clothing. Avoid breathing vapors. Wash hands

after use. Do not eat, drink or smoke in work area. Wash contaminated clothing before reuse.

7(b): CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Store in a cool dry place. Keep away from oxidizers. Keep container tightly closed when not in use. Protect from physical damage.

## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8(a): OCCUPATIONAL EXPOSURE LIMITS:

| Substances                        | CAS Number | OSHA PEL-TWA   | ACGIH-TWA      |
|-----------------------------------|------------|----------------|----------------|
| Diethylene Glycol Monobutyl Ether | 112-34-5   | Not Applicable | Not applicable |

8(b): APPROPRIATE ENGINEERING CONTROLS: Provide adequate ventilation.

8(c): INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

Eye protection: Wear safety glasses with side shields or splash proof goggles.  
Skin protection: Wear chemical resistant gloves  
Respiratory protection: Wear NIOSH approved protection if vapors are causing irritation.  
Clothing protection: Wear normal materials handling clothing.  
Other protection: Handle only in a well ventilated area.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9(a): APPEARANCE:

Physical state: Liquid  
Color: Cream to Tan

9(b): ODOR: Mild ether

9(c): ODOR THRESHOLD: Not determined

9(d): pH: 5.5 – 7.5

9(e): MELTING POINT/FREEZING POINT: No information available

9(F): INITIAL BOILING POINT/RANGE: 220°C / 428°F

9(g): FLASH POINT: 104°C / 219°F PMCC

9(h): EVAPORATION RATE: No data available

9(i): FLAMMABILITY (SOLID, GAS): No data available

9(j): UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:

Upper flammability limit: No data available  
Lower flammability limit: No data available

9(k): VAPOR PRESSURE: 0.4mmHg

9(l): VAPOR DENSITY: 5.1

9(m): RELATIVE DENSITY(Specific Gravity): 1.1

9(n): SOLUBILITY(IES):  
Solubility in water: Miscible in water  
Solubility in other solvents: No data available

9(o): PARTITION COEFFICIENT: N-OCTANOL/WATER: No data available

9(p): AUTO-IGNITION TEMPERATURE: 220°C / 428°F

9(q): DECOMPOSITION TEMPERATURE: No data available

9(r): VISCOSITY: Not determined

9(s): EXPLOSIVE PROPERTIES: No information available

9(t): OXIDIZING PROPERTIES: No information available

9(u): OTHER INFORMATION (VOC Content %): No data available

## SECTION 10 – STABILITY AND REACTIVITY

10(a): REACTIVITY: Not reactive under normal conditions

10(b): CHEMICAL STABILITY: Stable under normal conditions.

10(c): POSSIBILITY OF HAZARDOUS REACTION: Hazardous polymerization will not occur

10(d): CONDITIONS TO AVOID: None anticipated

10(e): INCOMPATIBLE MATERIALS: Avoid strong oxidizers

10(f): HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide, miscellaneous organic.

## SECTION 11 – TOXICOLOGICAL INFORMATION

11(a): INFORMATION ON LIKELY ROUTES OF EXPOSURE:  
Principle route of exposure: Eye, skin contact, inhalation

11(b): SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

Acute Toxicity:

Inhalation:

May cause respiratory irritation

Eye Contact:

Causes eye irritation. May cause corneal injury

Skin Contact:

May cause skin defatting with prolonged exposure. May cause slight skin irritation.

Ingestion:

May cause abdominal pain, vomiting, nausea, and diarrhea.

11(c): DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS

Chronic Effects/Carcinogenicity:

No data available to indicate product or components present at greater than 0.1% are chronic health hazards.

11(d): NTP/IARC/OSHA CARCINOGEN: No

## SECTION 12 – ECOLOGICAL INFORMATION

12(a): ECOTOXICITY:

| Substance                         | CAS Number | Toxicity to algae                          | Toxicity to fish                        | Toxicity to microorganisms                       | Toxicity to invertebrates        |
|-----------------------------------|------------|--|---|--|----------------------------------|
| Diethylene glycol monobutyl ether | 112-34-5   | EC50>100 mg/L<br>(Desmodesmus subspicatus) | LC50 1300 mg/L<br>(Lepomis macrochirus) | EC10>1995 mg/L<br>(Activated sludge, industrial) | EC50>100 mg/L<br>(Daphnia magna) |

12(b): PERSISTENCE AND DEGRADABILITY:

| Substance <sup>3</sup>            | CAS Number | Persistence and degradability         |
|-----------------------------------|------------|---------------------------------------|
| Diethylene glycol monobutyl ether | 112-34-5   | Readily biodegradable (85% @ 28 days) |

12(c): BIOACCUMULATIVE POTENTIAL: Not determined

12(d): MOBILITY IN SOIL: Not determined

12(e): OTHER ADVERSE EFFECTS: Not determined

## SECTION 13 – DISPOSAL CONSIDERATIONS

13(a): WASTE TREATMENT METHODS:

Disposal method: Disposal should be made in accordance with federal, state, and local regulations.

## SECTION 14 – TRANSPORT INFORMATION

US D.O.T.:

UN Number: Not restricted  
 UN Proper shipping name: Not restricted  
 Transport Hazard Class: Not applicable  
 Packing group: Not applicable  
 Environmental Hazards: Not applicable

US D.O.T. Bulk: Not restricted

Canadian TDG:

UN Number: Not restricted  
 UN Proper shipping name: Not restricted  
 Transport Hazard Class: Not applicable  
 Packing group: Not applicable  
 Environmental hazards: Not applicable

IMDG/IMO:

UN Number: Not restricted  
 UN Proper shipping name: Not restricted  
 Transport Hazard Class: Not applicable  
 Packing group: Not applicable  
 Environmental hazards: Not applicable

IATA/CAO:

UN Number: Not restricted

UN Proper shipping name: Not restricted  
Transport Hazard Class: Not restricted  
Packing group: Not applicable  
Environmental hazards: Not applicable

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE: Not applicable

SPECIAL PRECAUTIONS FOR USER: None

## SECTION 15 – REGULATORY INFORMATION

### US REGULATIONS:

US TSCA Inventory: All components listed on inventory or are exempt.  
EPA SARA Title III Extremely hazardous substances: Not applicable  
EPA SARA (311, 312) Hazard Class: Acute health hazard  
EPA SARA (313) Chemicals: This product contains toxic chemical(s) listed below which is(are) subject to the reporting requirements of Section 313 of Title III of SARA and 40 CFR Part 372: Glycol Ethers//112-34-5  
EPA CERCLA/Superfund Reportable Spill Quantity: Not applicable  
EPA RCRA Hazardous waste classification: If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.  
California Proposition 65: All components listed do not apply to the California Proposition 65 regulation.  
MA Right-to-know law: Does not apply  
NJ Right-to-know law: Does not apply  
PA Right-to-know law: Does not apply

CANADIAN REGULATIONS: All components listed on inventory or are exempt

## SECTION 16 – OTHER INFORMATION

NFPA RATING: HEALTH: 2  
FLAMMABILITY: 0  
REACTIVITY: 0  
SPECIAL: 0

HMIS RATING: HEALTH: 2  
FLAMMABILITY: 0  
REACTIVITY: 0  
SPECIAL: 0

Hazard scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

Employee training: Employees should be made aware of all hazards of this material, as stated in this SDS, before handling it.

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### KEY OR LEGEND TO ABBREVIATIONS AND ACRONYMS:

ADR - The European Agreement concerning the International Carriage of Dangerous Goods by Road  
AS/NZS 1715 - New Zealand Standard on Selection, use and maintenance of respiratory protective equipment  
bw – body weight

CAS – Chemical Abstracts Service  
C - Celsius  
CLP – REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on Classification, Labelling and Packaging of substances and mixtures  
d - day  
EC – European Commission  
EC10 – Effective Concentration 10%  
EC50 – Effective Concentration 50%  
EEC – European Economic Community  
EN 374 - European standard on Protective gloves against chemicals and micro-organisms  
EN 149 - European standard on filtering halfmasks to protect against particles  
ErC50 – Effective Concentration growth rate 50%  
FFP - Filtering Facepieces  
h - hour  
IATA/ICAO - International Air Transport Association / International Civil Aviation Organization  
IBC Code – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IMDG/IMO - International Maritime Dangerous Goods / International Maritime Organization  
LC50 – Lethal Concentration 50%  
LD50 – Lethal Dose 50%  
LL0 – Lethal Loading 0%  
LL50 – Lethal Loading 50%  
MAK - Maximum Workplace Concentration  
MARPOL – International Convention for the Prevention of Pollution from Ships  
mg/kg – milligram/kilogram  
mg/L – milligram/liter  
mg/m<sup>3</sup> - milligram/cubic meter  
mm - millimeter  
mmHg - millimeter mercury  
NDS - OEL-TWA [Poland najwyższe dopuszczalne stężenie na stanowisku pracy]  
NDS - najwyższe dopuszczalne stężenie na stanowisku pracy  
NIOSH – National Institute for Occupational Safety and Health  
NOEC – No Observed Effect Concentration  
NTP – National Toxicology Program  
OEL – Occupational Exposure Limit  
PBT – Persistent Bioaccumulative and Toxic  
PC – Chemical Product category  
PEL – Permissible Exposure Limit  
ppm – parts per million  
PROC – Process category  
REACH – REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorization and Restriction of Chemicals  
RID - The European Agreement concerning the International Carriage of Dangerous Goods by Rail  
R/H-phrases - Risk/Hazard-phrases  
STEL – Short Term Exposure Limit  
SU – Sector of Use category  
SZW - Netherlands Ministry of Social Affairs and Employment  
TWA – Time-Weighted Average  
UN – United Nations  
UK - United Kingdom  
VLA-EC - short-time excursion limits [Spain valores límite ambientales para la exposición de corta duración]  
VLA-ED - time-weighted average values for a whole work shift [Spain valores límite ambientales para la exposición diaria]  
VOC – Volatile Organic Carbon

vPvB – very Persistent and very Bioaccumulative  
w/w - weight/weight

Disclaimer: All information and recommendations concerning this product is based on tests and data believed to be reliable; however, it is the user's responsibility to determine the safety, toxicity, and suitability for the user's own use of the product described herein. Since the actual use by others is beyond our control, no guarantee expressed or implied is made by Houston Chemical. Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular conditions exist or because of applicable laws or government regulations.