INTEGRITY
CHEMICAL SOLUTIONS INC.

Safety Data Sheet

I-ZAN DGX

SECTION 1. IDENTIFICATION

Product Identifier	**I-ZAN DGX**
Other Means of Identification	**Polysaccharide Gum, xanthan gum**
Recommended Use	**Oil Field Drilling Fluid Compound**
Restrictions on Use	**None Known**
Initial Supplier Identifier	**Integrity Chemical Solutions Inc.** **205 Crystal Shores Drive** **Okotoks, Alberta** **T1S 2L1**
Emergency Telephone Number	**403.988.7695**

SECTION 2. HAZARD IDENTIFICATION

Classification	Combustible dust – Category 1
Hazard statement	May form combustible dust concentrations in the air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration (%)	Common name / Synonyms	Other identifiers
Polysaccharide gum	11138-66-2	98-100%		

SECTION 4. FIRST-AID MEASURES

Inhalation	Move to fresh air. Call a Poison Centre or doctor if you feel unwell.
Skin Contact	Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes.
Eye Contact	Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If a contact lens is present, DO NOT delay flushing or attempt to remove the lens.
Ingestion	Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Call a Poison Centre or doctor if you feel unwell.
First Aid Comments	If exposed or concerned, get medical advice or attention.
Most Important Symptoms and Effects, Acute and Delayed	If inhaled: Can irritate the nose and throat. If on skin: Repeated or prolonged exposure can irritate the skin. If in eyes: May cause slight irritation as a "foreign object". Tearing, blinking and mild temporary pain may occur as particles are

rinsed from the eye by tears.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media	
Suitable Extinguishing Media	Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.
Unsuitable Extinguishing Media	None known.
Specific Hazards Arising from the Product	Can ignite if strongly heated. In a fire, the following hazardous materials may be generated: carbon dioxide, carbon monoxide, hydrocarbons.
Special Protective Equipment and Precautions for Fire-Fighters	A full-body encapsulating chemical protective suit with positive pressure SCBA may be necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures	Use the personal protective equipment recommended in Section 8 of this safety data sheet.
Methods for Containment and Cleaning Up	Stop or reduce leak if safe to do so. Avoid generating dust. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal. Hose spill area thoroughly with water. Use caution as the product is extremely slippery when wet.
Environmental Precautions	Do not allow into any sewer, on the ground or into any waterway.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling	Only use where there is adequate ventilation. Avoid generating dusts. Avoid ignition sources. Airborne dust concentrations above 20mg/L may create a dust explosion hazard. Keep container closed. Discard or thoroughly clean contaminated clothing and shoes before re-use. It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.
Conditions for Safe Storage	Store in an area that is: cool, dry. Keep container closed when not in use.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls	Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.
Individual Protection Measures	
Eye/Face Protection	Wear chemical safety goggles.
Skin Protection	Avoid repeated or prolonged skin contact.
Hand protection	
Other	Wear suitable protective clothing.

Respiratory Protection	Wear a powered air-purifying respirator with an appropriate cartridge.
Thermal hazards	
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Beige powder
Odour	Slight
Odour Threshold	Not available
pH	7.0 (1% solution)
Melting Point and Freezing Point	Wear a powered air-purifying respirator with an appropriate cartridge.
Initial Boiling Point and Boiling Range	Not available
Flash Point	Not available
Evaporation Rate	Not available
Flammability (solid, gas)	Not available
Upper and Lower Flammability or Explosive Limit	Not available
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.4 - 1.6
Solubility in Water	Soluble in water
Solubility in Other Liquids	Not available
Partition Coefficient, n-Octanol / Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available
Density	Not available
Explosive properties	Not available
Oxidizing properties	Not available
Percent volatile	Not available
Specific gravity	Not available
Physical state	Solid

SECTION 10. STABILITY AND REACTIVITY

Reactivity	
Chemical Stability	Normally stable
Possibility of Hazardous Reactions	Hazardous polymerization will not occur.
Conditions to Avoid	Protect from moisture
Incompatible Materials	Strong oxidizing agents.

Hazardous Decomposition Products	Oxides of carbon

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

_x_ Inhalation _x_ Skin contact _x_ Eye contact _x_ Ingestion

Information on likely routes of exposure

Ingestion	Not harmful.
Symptoms related to the physical, chemical and toxicological characteristics	
Skin Corrosion / Irritation	Repeated or prolonged exposure can irritate the skin.
Serious Eye Damage / Irritation	May cause slight irritation as a "foreign object". Tearing, blinking and mild temporary pain may occur as particles are rinsed from the eye by tears.
STOT (Specific Target Organ Toxicity) - Single Exposure	Can irritate the nose and throat.
Aspiration Hazard	
STOT (Specific Target Organ Toxicity) - Repeated Exposure	No information was located for: STOT (Specific Target Organ Toxicity) - Repeated Exposure, Respiratory and/or Skin Sensitization, Carcinogenicity, Development of Offspring, Sexual Function and Fertility, Germ Cell Mutagenicity, Interactive Effects
Respiratory and/or Skin Sensitization	Not available

SECTION 12. ECOLOGICAL INFORMATION *(section heading must appear; all content is optional)*

Ecotoxicity	Studies were not located.
Persistence and Degradability	No information was located.
Bioaccumulative Potential	No information was located.
Mobility in Soil	No information was located.
Other Adverse Effects	

SECTION 13. DISPOSAL CONSIDERATIONS *(section heading must appear; all content is optional)*

Disposal Methods	Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations.

Special Precautions	Not aplicable
Environmental Hazards	
Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code	Not established

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations	**WHMIS 1988 Classification** Not a WHMIS controlled product

SECTION 16. OTHER INFORMATION

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