INTEGRITY CHEMICAL SOLUTIONS INC.

Safety Data Sheet

VODAPAC (ALL GRADES)

SECTION 1. IDENTIFICATION

Product Identifier	**VODAPAC (ALL GRADES)**
Other Means of Identification	**Polyanionic Cellulose**
Recommended Use	**Drilling Fluids Additive**
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	Not classified as hazardous according to the EEC Dangerous Substance Directive and Dangerous Preparation
Hazard Data:	
Eyes:	May cause Irritation to the eyes.
Skin:	May be irritating to the skin with prolonged contact.
Ingestion:	Not anticipated route of exposure.
Inhalation:	May be irritating to the respiratory tract if inhaled.
Chronic Health Effects:	None known. Not listes as a carcinogen on IARC, NTP, OSHA lists.
Medical Conditions Aggravated by Exposure:	None know.
Signal Words:	Warning.



Other Hazards	None identified

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration(%)	Common name / Synonyms	Other identifiers
Polyanionic Cellulose	9004-32-4	60 – 100		

Notes

SECTION 4. FIRST-AID MEASURES

General Information If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.

Inhalation No specific recommendations. If throat irritation or coughing persists, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues

Skin Contact No specific recommendations. Rinse with water. Get medical attention if any discomfort continues.

Eye Contact Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.

Ingestion May cause discomfort if swallowed.

Most Important Symptoms and Effects, Acute and Delayed

General Information: The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation: A single exposure may cause the following adverse effects: Temporary irritation.

Ingestion: May cause discomfort if swallowed.

Skin Contact: Prolonged contact may cause dryness of the skin.

Eye Contact: May be slightly irritating to eyes.

Indication of Immediate Medical Attention and Special Treatment Needed

Notes for the Doctor: Treat symptomatically.

Specific Treatments: No special treatment required.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable Extinguishing Media Do not use water jet as an extinguisher, as this will spread the fire.

Specific Hazards Arising from the Product None known.

Hazardous Thermal decomposition or combustion products may include the following

Combustion Products:	substances: Harmful gases or vapors.
Advice for Firefighters	
Protective Actions during Firefighting:	Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.
Special Protective Equipment and Precautions for Fire-Fighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Personal Precautions:	No specific recommendations. For personal protection, see Section 8.
Methods for Containment and Cleaning Up	
Methods for 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.
Reference to Other Sections:	For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Usage Precautions:	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use.
Advice on General Occupational Hygiene:	Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

Conditions for Safe Storage, Including any Incompatibilities

Storage Precautions:	Store away from incompatible materials (see Section 10). No specific recommendations.
Storage Class:	Unspecified storage.
Specific End Use(s):	The identified uses for this product are detailed in Section 1.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Controls	
Appropriate Engineering Controls:	No specific ventilation requirements.
Eye/Face Protection:	No specific eye protection required during normal use. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.
Hand Protection:	No specific hand protection recommended. Large Spillages: Wear protective gloves.

Hygiene Measures:	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke while using this product.
Respiratory Protection:	No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.
Environmental Exposure Controls:	Not regarded as dangerous for the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder
Color:	Beige
Odor:	Odorless
Odor Threshold:	No information available.
pH:	pH (diluted solution): 6.5 – 8.5 2%
Melting Point:	300°C
Initial Boiling Point/Boiling Range:	Not applicable
Flash Point:	Not applicable
Evaporation Rate:	No information available
Flammability (Solid, Gas):	No information available
Upper/Lower Flammability or Explosive Limits:	Lower flammable/explosive limit: 165 g/m³
Vapour Pressure:	No information available
Vapour Density:	No information available
Relative Density:	No information available
Partition Coefficient:	No information available
Auto-Ignition Temperature:	~ 370°C
Decomposition Temperature:	No information available
Viscosity:	Not applicable
Other Information:	None

SECTION 10. STABILITY AND REACTIVITY

Reactivity:	See the other subsections of this section for further details.
Stability:	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
Possibility of Hazardous Reactions:	No potentially hazardous reactions known.
Conditions to Avoid:	There are no known conditions that are likely to result in a hazardous situation.
Incompatible Materials:	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
Hazardous Decomposition Products:	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

x Inhalation x Skin contact x Eye contact x Ingestion

Information on Toxicological Effects

Acute Toxicity – Oral

Summary: Based on available data the classification criteria are not met.

Acute Toxicity – Dermal

Summary: Based on available data the classification criteria are not met.

Acute Toxicity – Inhalation

Summary: Based on available data the classification criteria are not met.

Skin Corrosion/Irritation

Summary: Based on available data the classification criteria are not met.

Germ Cell Mutagenicity

Summary: Based on available data the classification criteria are not met.

Carcinogenicity

Summary: Based on available data the classification criteria are not met.

IARC Carcinogenicity: None of the ingredients are listed or exempt.

Reproductive Toxicity

Summary: Based on available data the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure

Summary: Based on available data the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure

Aspiration Hazard

Summary: Not relevant. Solid.

General Information: No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation: A single exposure may cause the following adverse effects: Temporary irritation.

Ingestion: May cause discomfort if swallowed.

Skin Contact: Prolonged contact may cause dryness of the skin.

Eye Contact: May be slightly irritating to eyes.

Route of Exposure: Ingestion Inhalation Skin and/or eye contact.

Target Organs: No specific target organs known.

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

Ecotoxicity: Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

Acute Aquatic Toxicity

Summary:

Acute Toxicity – Fish:	LC50, 96 hours: 100 - 1,000 mg/l, Oncorhynchus mykiss (Rainbow trout).
Acute Toxicity – Aquatic Invertebrates:	EC50, 48 hours: 87.26 mg/l, Daphnia magna.

Chronic Aquatic Toxicity

Summary:	Based on available data the classification criteria are not met.

Persistence and Degradability

Persistence and Degradability:	The degradability of the product is not known.
Biodegradation:	The product is slowly degradable.

Bioaccumulative Potential

Bioaccumulative Potential:	No data available on bioaccumulation.
Partition Coefficient:	No information available.
Mobility in Soil:	No data available.
Other Adverse Effects:	None known

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

Waste Treatment Methods

General Information:	The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way.
Disposal Methods:	Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

SECTION 14. TRANSPORT INFORMATION *(section heading must appear; all content is optional)*

General:	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

UN Number

UN Number (International):	Not applicable
UN Number (DOT):	Not applicable

UN Proper Shipping Name

Proper Shipping Name (International):	Not applicable
Proper Shipping Name (DOT):	Not applicable

Transport Hazard Class(es)

Transport Labels (International):	No transport warning sign required.
DOT Transport Labels	No transport warning sign required.
Packing Group	
Packing Group (International):	Not applicable
DOT Packing Group:	Not applicable
Environmental Hazards	
Environmentally Hazardous Substance:	No
Special Precautions for User:	Not applicable
DOT Reportable Quantity:	Not applicable
DOT TIH Zone:	Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Not applicable

SECTION 15. REGULATORY INFORMATION *(section heading must appear; all content is optional)*

Regulatory References:	OSHA Hazard Communication Standard 29 CFR § 1910.1200
US Federal Regulations	
SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities:	None of the ingredients are listed.
CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA):	None of the ingredients are listed.
SARA Extremely Hazardous Substances EPCRA Reportable Quantities:	None of the ingredients are listed.
SARA 313 Emission Reporting:	None of the ingredients are listed.
CAA Accidental Release Prevention:	None of the ingredients are listed.
US State Regulations	
California Proposition 65 Carcinogens and Reproductive Toxins:	None of the ingredients are listed or exempt.
New Jersey "Right To Know" List:	Not listed

Pennsylvania "Right To Know" List:	Not listed
Inventories	
EU - EINECS/ELINCS:	Present
Canada - DSL/NDSL:	DSL
US – TSCA:	Present
US - TSCA 12(b) Export Notification:	None of the ingredients are listed or exempt.

SECTION 16. OTHER INFORMATION

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