Setac

Safety Data Sheet

Section 1: Product and Company Information

Product Name:
XP-911®
Generic Name
Carbon Matrix
General Use:
Loss circulation material for oil and water based drilling fluids.

Contact information:
Setac Corporation
501 Harwell Street
Lafayette LA 70 503
337-278-2325 Phone
Allen.setac@gmail.com Email
http://www.setac.com Web Site

Section 2. HAZARDS IDENTIFICATION

2.1 WHMIS Classification	Not a WHMIS controlled substance
OSHA Hazards	No known OSHA hazards

GHS – label elements, including precautionary statements

Signal Word	None
Hazard Statement(s)	None
Precautionary Statement(s)	P281: Use personal protective equipment as required (see section 8)

HMIS Classification

Health hazard	1
Flammability	1
Physical hazards	1

Potential health effects

Inhalation	Odor/vapors may be a nuisance in some individuals. In some individuals, short-term exposure of material may produce mild and temporary discomfort to the respiratory tract resulting in wheezing, tightness in the chest, shortness of breath and coughing. Although they may be present in low amounts, dust and small pieces of material may aggravate bronchitis, asthma, and emphysema, if inhaled.
Skin	Although being a fine material, particulate matter and dust may be present in low quantities. Contact with such items may result in irritation (redness/itching) or other effects.

Ingestion	Irritation of mucus membranes of mouth, throat, esophagus, and stomach along with nausea may occur.
Repeated exposure	Repeated exposure to material may result in sensitization in susceptible individuals.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	VOL.%	CAS No

The composition of this product is withheld as a trade secret in accordance with appropriate guidelines for non-hazardous products.

Section 4. FIRST AID MEASURES

4.1 First aid measures

General Advice

If negative symptoms develop while handling the product, move out of the area to prevent further exposure. Consult a physician as a precautionary measure if symptoms develop after being subjected to unprotected exposure of the material. Show the safety data Sheet to the doctor in attendance.

Inhalation If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult. Dust particles may aggravate bronchitis, asthma, and emphysema.

Ingestion Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Seek medical attention if irritation occurs.

Skin contact Wash off immediately with soap and plenty of water. Remove contaminated clothing and shoes. Seek medical attention if irritation occurs.

Eye Contact Promptly wash eyes with lots of water while lifting eye lids. Remove contact lenses, if worn. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues. Material abrasive if enters the eye and left untreated.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms No information available

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically

Section 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing media appropriate for surrounding material. Smothering with large quantities of dirt or sand is usually the best option. The materials may be extremely hot if in liquid form.

Extinguishing media which must not be used for safety reasons

Due to potential of pyrolytic oil being produced during uncontrollable burning, the use of water may result in highly contaminated run-off requiring containment.

5.2. Special hazards arising from the substance or mixture

Unusual fire and explosion hazards

None known.

Hazardous combustion products

Thermal decomposition can lead to release of irritating gases and vapors. Thick, black, acrid smoke. Oxides of carbon, nitrogen and sulfur. Uncontrolled burning may result in products of incomplete combustion including polynuclear aromatic hydrocarbons (naphthalene, anthracene, etc.); aromatic hydrocarbons including benzene, toluene, xylene, styrene, etc.; paraffinic oils; particulate and ash residues

Explosive data Not explosive on impact. Not explosive when subjected to static discharge.

5.3 Advice for firefighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear. Use of SCBA may not be required for small fires.

Special Fire-Fighting Procedures

Containers close to fire should be removed immediately or cooled with water.

Section 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Do not get on skin or clothing. Wash thoroughly after handling. Use personal protective equipment. Prevent dust cloud. See also section 8.

6.2 Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.

Environmental exposure controls

Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading.

Methods for cleaning up

Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Material becomes slippery when wet. Use caution if wet. After cleaning, flush away traces with water.

6.4 Reference to other sections

See section 13 for more information.

Section 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Avoid handling causing generation of dust. Material becomes slippery when wet. Use caution if wet. Avoid breathing dust; if exposed to high dust concentration, leave area immediately.

Hygiene measures

Use good work and personal hygiene practices to avoid exposure. Do not eat, drink or smoke when using this product. Wash hands and face before breaks, and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/precautions Ensure adequate ventilation. Provide appropriate exhaust ventilation at places where dust is formed. Keep airborne concentrations below exposure limits.

Storage precautions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

IDLH (Immediately Dangerous to Life or Health)

8.2 Exposure controls

A risk assessment is recommended to be performed by a qualified and trained personnel to analyze the worksite and recommends the appropriate controls such as engineering controls, work practice controls, and administrative controls as primary means of reducing employee exposure. When there is a remaining hazard after applying the primary controls, Personal Protective Equipment (PPE) must be used.
All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.

Engineering Controls

Ensure adequate ventilation. Mechanical ventilation or local exhaust ventilation is required.

Personal protective equipment

Eye protection Tightly fitting safety goggles.

Hand protection Wear chemical resistant gloves such as nitrile or neoprene. Frequent change is advisable

Respiratory Protection Respiratory protection is typically not required. Respiratory Protection Standard) or local equivalent. If exposed to airborne particles of this product use at least a NIOSH-approved N95 half-mask disposable or re-useable particulate respirator. In work environments containing oil mist/aerosol use at least a NIOSH-approved P95 half-mask disposable or re-useable particulate respirator.

Skin and body protection

	Short time exposure does not require gloves. Wear appropriate personal protective clothing to prevent skin contact. Hygiene Measures Wash hands before breaks and immediately after handling the product, Remove and wash contaminated clothing
before	re-use.
Hygiene Measures	Wash hands before breaks and immediately after handling the
product,	Remove and wash contaminated clothing before re-use.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Solid
Appearance	Granulated Powder
Color	Black
Odor	Burnt Hydrocarbon
Odor threshold	Not applicable

pH	Not applicable
Melting / freezing point	No Information available
Boiling point/range	No information available
Flash point	>100° C; >212° F (ASTM D3828
Evaporation rate (BuAc =1)	No information available
Flammability (solid, gas)	Not applicable
Flammability Limit in Air:	
Upper flammability limits	No information available
Lower flammability limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Bulk density	1.05-1.13 G/ML @20° C
Water solubility	Negligible
Solubility in other solvents	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
log Pow	No information available
Explosive properties	Not applicable
Oxidizing properties	None known
9.2 Other information	
Pour point	No information available
Molecular weight	No information available

Comments
The data listed above are typical physical and chemical properties and should not be construed as product specification.

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under normal temperature conditions and recommended use.

10.3 Possibility of Hazardous Reactions
Hazardous polymerization does not occur

10.4 Conditions to avoid
Avoid dust formation.

10.5 Incompatible materials
Strong oxidizing agents. Strong acids. Strong bases.

10.6 Hazardous decomposition products
See Section 5.2

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity
Inhalation - Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.
Eye contact Dust may cause mechanical irritation.
Skin contact Repeated exposure may cause skin dryness or cracking.
Ingestion Ingestion may cause stomach discomfort.

Section 12. ECOLOGICAL INFORMATION (non-mandatory)

12.1 Toxicity

Toxicity to algae
No data Available

Toxicity to fish
No data available

Toxicity to daphnia and other aquatic invertebrates
No data available

12.2 Persistence and degradability
Not applicable

12.3 Bio accumulative potential
Not applicable.

12.4 Mobility
No information available

12.5 Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)
This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

12.6 Other adverse effects.
None known. Check for additional information in sect. 7.

Section 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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

Contaminated packaging Empty containers should be taken for local recycling, recovery or waste disposal.

Section 14. TRANSPORT INFORMATION

14.1. UN number
UN No. (DOT) Not regulated
UN No. (MT/ANTT) Not regulated
UN No. (TDG) Not regulated
UN/ID No. (ADR/RID/ADN/ADG) Not regulated
UN No. (IMDG/ANTAQ) Not regulated
UN No. (ICAO/ANAC) Not regulated
UN No. (DPC) Not regulated

14.2. UN proper shipping name
The product is not covered by international regulation on the transport of dangerous goods

14.3 Hazard class(es)

DOT Hazard class Not regulated
ANTT Hazard class Not regulated
TDG Hazard class Not regulated
ADR/RID/ADN/ADG Hazard class Not regulated
IMDG/ANTAQ Hazard class Not regulated
ICAO/ANAC Hazard class/division Not regulated
DPC Hazard class Not regulated

14.4 Packing group

DOT/ANTT Packing group Not regulated
ANTT Packing group Not regulated
TDG Packing group Not regulated
ADR/RID/ADN/ADG Packing group Not regulated
IMDG/ANTAQ Packing group Not regulated
ICAO/ANAC Packing group Not regulated
DPC Packing group Not regulated

14.5 Environmental hazard
Marine pollutant No

14.6 Special precautions
None

Section 15. REGULATORY INFORMATION

International inventories
USA (TSCA) Complies
Canada (DSL) Complies
Philippines (PICCS) Complies
Japan (ENCS) Complies
China (IECSC) Complies
Australia (AICS) Complies
Korean (KECL) Complies
New Zealand (NZIoC) Complies
Europe - REACH
Setac® is not registered with REACH
U.S. Federal and State Regulations

SARA 311/312 Hazard Categories
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

Canadian Classification
This Safety Data Sheet has been prepared in compliance with the Hazardous Products Regulations.

16. OTHER INFORMATION

Revision date 4/1/2021
Version 1
HMIS classification
Health 1
Flammability 1
Physical hazard

HMIS RATINGS NOTES: Please refer to Section 8 of this SDS for recommended personal protective equipment.
DATA SOURCES:
REFERENCES
ACGIH. 2014 Guide to Occupational Exposure Values. Cincinnati, OH. Signature Publications, 2014.
Forsberg, K. et al. Quick Selection Guide to Chemical Protective Clothing. Sixth Edition. Hoboken, NJ. John Wiley & Sons, 2014.
Lide, D.R. CRC Handbook of Chemistry and Physics. 88th Edition. Boca Raton, FL. CRC Press, 2008.
UNECE. Globally Harmonized System of Classification and Labeling of Chemicals (GHS). Third Revised Edition. New York and Geneva. United Nations, 2009.
US DOT; Pipeline and Hazardous Materials Safety Administration. 2008 Emergency Response Guidebook. Neenah, WI. J.J. Keller & Associates, Inc. 2008.
US EPA. Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-To-Know Act (EPCRA) and Section 112(r) of the Clean Air Act. [Available] Online: http://www.epa.gov/ceppo/pubs/title3.pdf. Retrieved 02/02/2011.
ADDITIONAL SDS INFORMATION:
KEY / LEGEND
ACGIH - American Conference of Governmental Industrial Hygienists
ADR - Agreement on Dangerous Goods by Road ASTM - American Society for Testing and Materials
CAA - Clean Air Act
CAS - Chemical Abstracts Service Registry Number
CDG - Carriage of Dangerous Goods by Road and Rail Manual
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
CFR - Code of Federal Regulations
EINECS - European Inventory of Existing Chemical Substances Registry Number
NAERG - Emergency Response Guidebook

EPCRA - Emergency Planning and Community Right-to-Know Act
GHS - Globally Harmonized System of Classification and Labeling of Chemicals
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
ICAO - International Civil Aviation Organization
IMDG - International Maritime Dangerous Goods Code
IMO - International Maritime Organization
MSDS - Material Safety Data Sheet
N/E - Not Established
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
PEL - Permissible Exposure Limit
PPE - Personal Protective Equipment
RCRA - Resource Conversation and Recovery Act
RID - Regulations Concerning the International Transport of Dangerous
RQ - Reportable Quantities
SARA - Superfund Amendments and Reauthorization Act of 1986
SDS - Safety Data Sheet
TCC - Tag Closed Cup
TDG - Transportation of Dangerous Goods
TLV - Threshold Limit Value
TSCA - Toxic Substance Control Act
UN/NA - United Nations / North American Number
UNECE - United Nations Economic Commission for Europe
US DOT - United States Department of Transportation
US EPA - United States Environmental Protection Agency
Vol. - Volume
WHMIS - Workplace Hazardous Materials Information System

GENERAL STATEMENTS: Other information not included anywhere else in this SDS is included in this section if, in fact, such data exists.

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