



MATERIAL SAFETY DATA SHEET

ACCORDING TO ANSI- Z400.1-1993 16-SECTION MSDS FORMAT.

DATE PREPARED: February 06, 2007

NUMBER: RJSSH070220MSDSUS

SECTION I - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT IDENTITY (As Used on Label and List)

Product Name: Water-retention agent

Common Name: SAP

Trade Mark: WoTe

MANUFACTURER/SUPPLIER INFORMATION:

Manufacturer's Name:

Shengli Oil Field Chang'an Share-holding Group Co., Ltd.

Address (*Number, Street, City, State, and ZIP Code*):

No.416 Xinsi Road, Dongying City, Shandong, 257000, China

Emergency Telephone Number: +86-546-7775282

Fax Number for Information: +86-546-7775281

Contact Person: Fan Yuhai

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

This product is made from the materials as following:

Ingredient	CAS No.
Attapulgite	12174-11-7
Acrylic acid	79-10-7
Acrylamide	79-06-1

SECTION III - HAZARDS IDENTIFICATION

Emergency Overview:

This product with no health hazards reported from normal use. Harmful if ingest. **Caution, don't ingest!**



Route of entry: Inhalation, skin contact, eye contact, ingestion.

Eye Contact: May cause eye irritation.

Skin Contact: No normal skin irritation.

Inhalation: Inhalation of powder irritates the respiratory tract.

Ingestion: May cause gastrointestinal pain. Cramps, nausea, vomiting, drowsiness, unconsciousness and diarrhea may also result.

SECTION IV - FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Skin: If allergy occurs, immediately flush skin with plenty of water for at least 15 minutes. Call a physician if irritation develops.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: **Don't drink or any liquid! Avoid vomiting. Seek medical attention immediately. Never give anything by mouth to an unconscious person.**

SECTION V - FIRE FIGHTING MEASURES

Flash Point: Not applicable.

Upper Flame Limit (Volume % in air): Not applicable.

Lower Flame Limit (Volume % in air): Not applicable.

Auto-Ignition Temperature: Not applicable.

OSHA Flammability Class: Not applicable.

Fire and Explosion Hazards:

It is nonflammable.

Extinguishing Media:

Use dry chemical, water fog, foam and carbon dioxide.

Fire Fighting Equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Fire Fighting Instructions:

Evacuate area and fight fire from a safe distance.

Unusual Hazards: None.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear appropriate personal protective equipment as specified in Section VIII.



Environmental Precautions:

This material may be non-hazardous in ordinary use and may be discarded in accordance with applicable governmental regulations and take order with the demands of the environmental protection section.

Methods of Clean up:

Land Spill: Sweep and scoop all spilled material. Place them into a container, e.g. fiberboard drum or carton. Prevent spill from entering drinking water supplies or streams. Dispose in accordance with applicable state and federal regulations.

Water Spill: Remove product layered on water by mechanical means. Place collect in appropriate container for disposal in approved facilities.

SECTION VII - HANDLING AND STORAGE

Personal Precautions: Protective clothing and glove as necessary to prevent excessive contact.

Prevention of Fire and Explosion: No special technical protective measures required.

Storage: Store in a cool, dry, and well-ventilated area and away from sources of ignition, excessive heat and direct sunlight. Keep container closed when not in use. Protect from physical damage. Minimize exposure to air. Avoid humidity. Separate from strong acid, strong oxides and strong bases. Put it lightly when packing and transport, prevent the packing and container from damage.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit:

OSHA PEL: N.E.

ACGIH (TLV-TWA): N.E.

Occupational Exposure Controls: Not established.

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions.

Respiratory Protection: Approved/certified respirators or equivalents are required if air contaminants exceed OSHA PEL in produce.

Eye Protection: Not required in normal use. Maintain eye wash fountain and quick-drench facilities in work area.

Skin and Body Protection: Protective clothing, including gloves, lab coat, apron or coveralls, as appropriate, to prevent prolonged and repeated skin contact.

Recommended Decontamination Facilities: Safety shower, eye wash, washing facilities as appropriate to condition of use.

Work Hygienic Practices: Wash thoroughly after handling and before eating, drinking or smoking.



SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Brown granule.
Odor: Non-obvious odor.
Water Solubility: Non-soluble but swelling in water.
pH: 6.0-8.0
Specific Gravity (Water=1): 1.34
VOC (%): N/A

SECTION X - STABILITY AND REACTIVITY

Normally Stable:

This product is stable under ordinary conditions of use.

Incompatibility:

Avoid contact with strong acid, strong oxides and strong bases.

Conditions to Avoid:

Avoid direct sunlight, excessive heat, humidity and physical damage in storage.

Hazardous Polymerization:

Hazardous polymerization does not occur.

Corrosive to Metals:

Not corrosive.

SECTION XI - TOXICOLOGICAL INFORMATION

Toxicity Date:

ORL-RAT LD50 >5000 mg kg⁻¹

Carcinogenicity:

IARC: Not established.
National Toxicology Program: Not established.
OSHA: Not established.

Reproduction Toxicity: None reported.

Teratogenicity: None reported.

Mutagenicity: None reported.

Synergistic Products: None reported.

Irritancy of Product: See Section III.



SECTION XII - ECOLOGICAL INFORMATION

Environmental Toxicity:

On the basis of available information, this product is not expected to produce any significant adverse environmental effects when recommended use instructions are followed.

Mobility: None reported.

Bioaccumulative potential: None reported.

Degradability: Degradable.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Methods:

Recover or recycle if possible. The product is assimilated to urban waste. Prevent from direct entering sewer, drinking water supplies or streams. Discharge, treatment, or disposal is subject to national, state, provincial, or municipal laws.

SECTION XIV - TRANSPORT INFORMATION

DOT (Department of Transportation): Not regulated.

Proper Shipping Name: Not regulated.

Hazard Class: Not regulated.

Identification Number: Not applicable.

IMO: Not regulated.

IATA/ICAO Class: Not regulated.

UN Number: Not regulated.

TDG Classification: Non-regulated Material.

Follow all regulations in your country.

SECTION XV - REGULATORY INFORMATION

NFPA Hazard Code:

Health: 0

Flammability: 0

Reactivity: 1

Special Hazard: None

CERCLA (Comprehensive Environmental Response Compensation and Liability Act): No reportable Quantity.



OSHA Hazard Communication Standard, 29 CFR 1910.1200: No listed ingredient.

SARA Title III (Superfund Amendments and Reauthorization Act): No listed ingredient.

TSCA Inventory Status: Chemical components listed on TSCA inventory. Export Notification: This product does not contain any chemicals subject to Section 12 (b) export notification.

SECTION XVI - OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. RJS Standard Testing & Certification Center shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. License granted to make unlimited paper copies for internal use only.

NOTE

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