



MATERIAL SAFETY DATA SHEET

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P-ASAL

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CHEMICAL CODE: P-ASAL
PRODUCT NAME: ANTI-SETTLING AGENT LIQUID
MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: NOVEMBER 09, 2000



NFPA RATING:

HEALTH HAZARD: 1 FLAMMABILITY: 2 REACTIVITY: 0 OTHER: NONE

0=INSIGNIFICANT 1=SLIGHT 2=MODERATE 3=HIGH 4=EXTREME

NOMINAL COMPOSITION:
PROPRIETARY COMPOSITION

CAS NUMBER

SECTION 1 - PHYSICAL DATA

| | | | |
|----------------------|---------------------|----------------|---------------|
| CHEMICAL NATURE: | PROPRIETARY | FORM: | LIQUID |
| COLOR: | TAN, VISCOUS SLURRY | ODOR: | SLIGHT ODOR |
| VAP DENSITY (AIR=1): | 7-8 | SOL. IN WATER: | INSOLUBLE |
| PH: | NOT AVAILABLE | SP. GRAVITY: | 0.91 |
| POUR PT.: | NOT AVAILABLE | BOILING POINT: | >490 DEG F |
| VAP. PRESSURE: | @68F <0.1 | WT% VOLATILE: | NOT AVAILABLE |

SECTION 2 - FIRE AND EXPLOSION HAZARD DATA

CHARACTERISTIC:

FLASH POINT: > 200 DEG F > 93 DEG C METHOD USED: NOT DETERMINED

FLAMMABLE LIMITS (STP IN AIR) LFL: 28 G/M3 UFL: NOT DETERMINED

EXTINGUISHING MEDIA: WATER SPRAY, DRY CHEMICAL, FOAM, AND CO2.

SPECIAL FIRE FIGHTING EQUIPMENT AND HAZARDS: WEAR PROTECTIVE FIRE FIGHTING CLOTHING AND AVOID BREATHING VAPORS.
USE SELF-CONTAINED BREATHING APPARATUS IN CLOSED AREAS. SLICK WHEN WET.



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SECTION 3 - REACTIVITY HAZARDS

STABILITY: PRODUCT IS STABLE UNDER NORMAL CONDITIONS OF STORAGE AND HANDLING. STORE IN A COOL, DRY PLACE TO MAINTAIN PRODUCT PERFORMANCE.

INCOMPATIBILITY: HEAT, SPARKS, OPEN FLAME, STRONG OXIDIZING MATERIALS AGENTS AND STRONG ACIDS, CHLORIDES, NITRATES, PEROXIDES.

HAZARDOUS DECOMPOSITION: WHEN HEATED STRONGLY OR BURNED, OXIDES OF CARBON, CARBON MONOXIDE, NITROGEN OXIDES AND HARMFUL ORGANIC CHEMICAL FUMES ARE RELEASED.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 4 - FIRST AID PROCEDURES

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. SEE A DOCTOR AT ONCE.

SKIN CONTACT: IMMEDIATELY WASH WITH SOAP AND WATER. SEE A DOCTOR IF IRRITATION OCCURS. WASH CLOTHES THOROUGHLY BEFORE REUSING.

SWALLOWING: DO NOT INDUCE VOMITING, SEEK MEDICAL ATTENTION IMMEDIATELY.

INHALATION: REMOVE TO WELL VENTILATED AREA; IF BREATHING DIFFICULTIES OCCUR SEEK MEDICAL ATTENTION.

NOTES: THERE IS NO SPECIFIC ANTIDOTE. TREATMENT OF OVEREXPOSURE SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS AND THE CLINICAL CONDITION OF THE PATIENT.

SECTION 5 - HANDLING PRECAUTIONS

PROTECTIVE EQUIPMENT CODE:

VENTILATION: GENERAL AND LOCAL VENTILATION IS REQUIRED.

RESPIRATORY PROTECTION: USE NIOSH APPROVED RESPIRATOR WITH DUST AND MIST PROTECTION (3M NO. 8710).

PROTECTIVE CLOTHING: CLEAN, BODY-COVERING CLOTHING PLUS GLOVES.

EYE PROTECTION: CHEMICAL GOGGLES REQUIRED AND AN EYE WASH IN WORK AREA.

EXPOSURE GUIDELINE(S):



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SECTION 6 - SPILL AND DISPOSAL PROCEDURE

CERCLA REPORTABLE QUANTITY: NOT ESTABLISHED.

SPECIAL HANDLING: SCOOP INTO CONTAINERS. AVOID GENERATING DUST, KEEP AWAY FROM HEAT, SPARKS AND FLAME. USE WATER CAREFULLY; SLICK WHEN WET. IF VACUUM SWEEPER IS USED, IT MUST BE RATED TO HANDLE EXPLOSIVE MATERIAL. SPILL INTO WATER SHOULD BE CONTAINED TO AVOID RUNOFF ONTO WATERWAYS.

DISPOSAL METHOD FOR:

PRODUCT: HAZARDOUS WASTE LANDFILL. MATERIAL MAY BE ACCEPTABLE IN SOME SANITARY LANDFILLS; CHECK LOCAL REGULATIONS.

EPA HAZARDOUS WASTE NUMBER: NONE.

CONTAINER: EMPTY CONTAINERS WILL STILL CONTAIN MATERIAL THAT MAY IGNITE WITH EXPLOSIVE VIOLENCE IF EXPOSED TO OPEN FLAME. RENDER EMPTY CONTAINERS UNUSABLE BY PUNCTURING AND THEN DISPOSE OF AS PER ENVIRONMENTAL REGULATIONS.

DEGRADABILITY:

FISH TOXICITY: NO INFORMATION.

ANIMAL TOXICITY: NO INFORMATION.

SECTION 7 - TOXICOLOGY (ROUTES OF EXPOSURE)

PRINCIPAL HAZARD (E=EYE, S=SKIN, I=INHAL.): E

EYE CONTACT: IRRITANT. MAY CAUSE PAIN, REDNESS, AND DISCOMFORT.

SKIN CONTACT: PROLONGED OR REPEATED CONTACT MAY CAUSE IRRITATION/REDDEN SKIN, PROGRESSING TO DERMATITIS.

SWALLOWING: DO NOT INDUCE VOMITING, SEEK MEDICAL ATTENTION IMMEDIATELY.

INHALATION: INHALATION OF THE DUST MAY CAUSE COUGHING AND SNEEZING. PROLONGED OR REPEATED EXPOSURE MAY CAUSE MILD IRRITATION.

OTHER:

SECTION 8 - SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

SPECIAL PRECAUTIONS: USE RESPIRATOR AND OPERATE IN WELL VENTILATED AREAS. USE SOLVENT/CHEMICAL RESISTANT GLOVES AND SAFETY GLASSES/GOGGLES AND APRONS TO AVOID SKIN CONTACT.

PHYSICAL HAZARD: FIRE, DUST, WATER SLICK.

HANDLING AND STORAGE PRECAUTIONS: AVOID WETTING SPILLED MATERIAL.

PACKAGING INFORMATION: 55 OR 5 GALLON APPROVED DRUMS.

THE INFORMATION HEREIN IS BELIEVED TO BE ACCURATE AND IS PRESENTED IN GOOD FAITH; HOWEVER, NO WARRANTIES OR REPRESENTATIONS ARE MADE BY PETROCHEM USA, INC. REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION.



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SHIPPING INFORMATION

ID NUMBER (UN # OR NA #):

FLASH PT. > 200 DEG F, > 93 DEG C
BOILING PT. > 490F.

ICC TARIFF CLASSIFICATION: COMPOUND, GAS OR OIL WELL DRILLING
ICC ITEM NUMBER: ICC CLASS: LTL TL

DEPARTMENT OF TRANSPORTATION – DOT REGULATIONS 49 CFR

DESCRIPTION: NOT REGULATED

HAZARD CLASS:

SHIPPING NAME:

DOT LABEL:

COMMENT:

DS TANK EX. #: N/A

CERCLA RQ: NOT ESTABLISHED.

US FOREIGN TRADE SCHEDULE B# (EXPORT): 492.1840

CANADIAN SHIPMENTS -

SHIPPING NAME:

SPECIAL PROVISION:

CLASSIFICATION:

ICAO CLASS:

PKG GROUP:

WATER SHIPMENT (IMO) -

SHIPPING NAME:

LABEL(S):

CLASS:

PKG GROUP:

IMDG PAGE:

MARPOL:

AIR SHIPMENTS (IATA) -

SHIPPING NAME:

LABEL(S):

CLASS:

SUB RISK:

PKG. GROUP:

PASSENGER AIRCRAFT PKG. INSTR.

MAX. NET QTY. /PKG.

CARGO AIRCRAFT ONLY PKG. INSTR

MAX. NET QTY. /PKG.

EUROPEAN ECONOMIC COMMUNITY (EEC) -

RISK PHRASES:

SAFETY PHRASES:

CLASSIFICATION (LABEL):

LABEL DESCRIPTION:

ADR CLASS:

RID CLASS:

TREM CARD:

HAZARD CLASSIFICATION:

COMMENT:

S) =S28..WATER