



MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: 08/08/07

This MSDS complies with OSHA's Hazard Communication Standard CFR 1910.1200 and OSHA Form 174.

N/A SIGNIFIES NON-APPLICABLE

IDENTITY AND SUPPLIERS INFORMATION

PRODUCT NAME: **ADENA D 10 LIQUID DISPERSION** CHEMICAL FAMILY:
GENERIC NAME: FORMULA: PROPRIETARY
SUPPLIER'S NAME: ADENA TECHNOLOGIES PHONE NUMBER: (888) 247-2312
SUPPLIER'S ADDRESS: 101 Technology Lane EMERGENCY NO.: (800) 255-3924
Export, PA 15632 DATE PREPARED: 03/30/06
SHIPPING NAME: CONSUMER COMMODITY (ORM-D)

NFPA HAZARDOUS MATERIALS IDENTIFICATION SYSTEM	RATING
HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
MAX PERSONAL PROTECTION	X

SECTION 1 - INGREDIENT IDENTIFICATION AND INFORMATION

CHEMICAL NAME	CARC.	CAS NO.	WT %	SEC. 313	OSHA PEL	TWA-TLV	STEL-TLV
Distillates, Petroleum, Hydrotreated Heavy Naphthenic		64742-52-5	30-40		200 mg/m ³		
Alcohols, C 12-15, Ethoxylated Propoxylated		68551-13-3	1-5		500 ppm		
Naphtha, Petroleum, Hydrotreated Heavy		64742-48-9	0-5				

SECTION 2 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: >100 °C (212 °F)
VAPOR PRESSURE: Not Determined
VAPOR DENSITY: Not Determined
SOLUBILITY IN WATER: Soluble, solubility limited by viscosity.
SPECIFIC GRAVITY @20°C: 1.1
pH RANGE: 7.5 (1% Solution)
EVAPORATION RATE (Water=1):
VOLATILE RATE: Not Determined
PHYSICAL DESCRIPTION: White to off-white liquid. Slight hydrocarbon oil-like odor.

SECTION 3 - FIRE/EXPLOSION HAZARD DATA

FLAMMABILITY: (FLAME PROJECTION) N/a AUTO IGNITION TEMP: N/A
FLASH POINT: >93 °C (200 °F)
FLAMMABILITY LIMITS: Not Determined
EXTINGUISHER MEDIA: Carbon dioxide, dry chemical or foam. If water is used, restrict pedestrian and vehicular traffic in areas where slip hazard may exist.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective suit. Standard procedure for chemical fires. The product becomes slippery when wet. Restrict pedestrian and vehicular traffic in areas where slip hazard may exist.
UNUSUAL FIRE & EXPLOSION HAZARDS: The product is slippery when wet. Burning may produce oxides of carbon or nitrogen.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable
INCOMPATIBILITY: Strong oxidizing agents. (May degrade polymer)
CONDITIONS TO AVOID: Avoid temperature extremes, especially frost and freezing conditions.
HAZARDOUS DECOMPOSITION PRODUCTS: No decomposition expected under normal storage conditions.
HAZARDOUS POLYMERIZATION: None expected.

SECTION 5 - HEALTH HAZARD DATA AND FIRST AID

PRIMARY ROUTES OF ENTRY:	FIRST AID PROCEDURES:
SKIN: May cause skin irritation.	SKIN: Wash off immediately with soap and plenty of water. Get medical attention if irritation occurs. If clothing is contaminated, remove and launder before reuse.
EYES: May cause eye irritation.	EYES: Flush the eye(s) with lukewarm, gently flowing water 5-10 minutes or until the chemical is removed. Get medical attention if irritation persists.
INHALATION: Not determined.	INHALATION: Remove to fresh air, if not breathing give artificial respiration. If breathing is difficult, give oxygen and get immediate medical attention.
INGESTION: Not determined.	INGESTION: Do not induce vomiting. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration. Seek medical attention immediately.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION: Use NIOSH approved respirator as needed to mitigate exposure.
VENTILATION: Work in well ventilated areas. Do not breathe vapors or mist. Local exhaust/ventilation recommended.
PROTECTIVE CLOTHING: Wear chemical resistant gloves and protective clothing.
EYE PROTECTION: Wear splash proof chemical goggles.
OTHER PRECAUTIONS: Eye wash station and safety shower should be available in immediate work area. Select additional protective equipment based upon potential for exposure.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Spills are very slippery. Clean up promptly.
WASTE DISPOSAL METHODS: This product may be classified as an oil under Section 311 of the Clean Water Act and 40 CFR Part 1 10, Part 1 12. Spills entering (A) surface waters or (B) any water courses or sewers entering/leading to surface waters that cause a sheen must be reported to the National Response Center (NRC: 800-424-8801). In Washington, DC metropolitan areas call 202-426-2675.
PRECAUTION IN STORAGE AND HANDLING: As with all industrial chemicals, use good industrial practices when handling. Avoid eye, skin, and clothing contact. Do not inhale. Do not taste or swallow. Use only with adequate ventilation. Keep containers tightly closed in a cool, well-ventilated place. Avoid extremes of temperature.
OTHER PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without any warranty or guarantee of any kind.