

# Material Safety Data Sheet. No: SD3140-R00

Issued 23-Jun-09

## Section 1 : Chemical Identification

<b>Catalogue No.:</b>	3140-XXXX	<b>Name:</b>	ETT Activator (0.25M)
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## Section 2 : Hazards Identification

<b>Main Hazard</b>	Highly Flammable
<b>Other Specific Hazards</b>	Toxic

## Section 3 : Composition/information on Ingredients

<b>Chemical Name</b>	<b>Composition</b>	<b>CAS No.</b>	<b>EINECS No.</b>
Acetonitrile	>96%	75-05-8	200-835-2
Ethylthiotetrazole (ETT)	0.25M , (<4%)	89797-68-2	N/A

## Section 4 : First Aid Measures

<b>Eyes</b>	In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. OBTAIN MEDICAL ATTENTION
<b>Skin</b>	In case of contact, remove contaminated clothing, immediately wash skin with soap and copious amounts of water. OBTAIN MEDICAL ATTENTION
<b>Ingestion</b>	Induce vomiting and washout mouth with water provided the person is conscious. Trained persons may administer amyl nitrate by inhalation in cases of stupor or unconsciousness OBTAIN MEDICAL ATTENTION
<b>Inhalation</b>	Immediately remove to fresh air. If not breathing, give artificial respiration. OBTAIN MEDICAL ATTENTION

## Section 5 : Fire Fighting Measures

<b>Extinguishing Media</b>	Carbon dioxide, dry chemical powder or appropriate foam
<b>Special Hazards of Product</b>	Volatile and flammable liquid. Heat will build up pressure in closed storage containers. Vapour may travel some distance to points of ignition and cause flash back.
<b>Protective Equipment for Fire Fighting</b>	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## Section 6 : Accidental Release Measures

<b>Personal Protection</b>	Protective gloves, goggles or laboratory spectacles and clothing are recommended. See also sections 6 and 7 above.
<b>Leaks and Spills</b>	Spillages will create a fire hazard. Small spills should be allowed to evaporate and the area well ventilated. Large spills should be contained and absorbed with a suitable inert material then removed for disposal. Take precautions against static discharge

## Section 7 : Handling and Storage

<b>Handling</b>	Wear protective clothing, gloves and safety goggles. Use in a fume extraction cabinet. Avoid contact with eyes, skin and clothing. Avoid inhalation. Wash thoroughly after handling. Avoid heat, sparks and open flames. Keep containers closed when not in use. Earth metal containers when in use.
<b>Storage</b>	Protect from extremes of temperature and direct sunlight. Store in sealed containers in an appropriately protected and secure flammable liquid store. Proper storage should be determined based on other materials stored and their hazards and chemical incompatibilities

## Section 8 : Exposure controls/Personal Protection

<b>Exposure Controls</b>	Always use adequate fume extraction and keep storage vessels closed when not in use. See also sections 6 and 7 above.
<b>Personal Protection</b>	Protective gloves, goggles or laboratory spectacles and clothing are recommended. See also sections 6 and 7 above.

## Section 9 : Physical and Chemical Properties

<b>Physical State</b>	Colourless liquid		
<b>Melting Point</b>	-45°C	<b>Boiling Point</b>	81°C
<b>Flash Point</b>	2°C	<b>Explosion Limits</b>	Lower: 3% vol. upper: 17% vol.
<b>Solubility (Water)</b>	Complete	<b>Solubility (Org. Solvents)</b>	Miscible
<b>Chemical Formula</b>	N/A	<b>Molecular Weight</b>	N/A
<b>Other Information</b>	Autoignition temperature: 524°C		

## Section 10 : Stability and Reactivity

<b>Chemical Stability</b>	Stable
<b>Incompatibilities</b>	Strong acids and bases and oxidising agents
<b>Hazardous Decomposition or Combustion Products</b>	Formation of toxic gasses is possible during heating or in case of fire
<b>Hazardous Polymerisation</b>	Does not occur

## Section 11 : Toxicological Data

<b>Toxic Effects</b>	Inhalation: May cause irritation of the nose and throat, flushing of the face and bronchial tightness. Prolonged exposure may cause nausea, dizziness headache vomiting, chest or abdominal pain, respiratory depression extreme weakness stupor or convulsions. In extreme cases can be fatal Ingestion: systemic effects Eye: contact may cause irritation, Lachrymator Skin contact: causes irritation and systemic effects.  Chronic exposure effects: can produce damage to liver and kidneys.
<b>Other Toxicological Data</b>	The toxicological effects of this preparation have not been fully investigated. Information for the components are given below:  ORL -RAT LD50 (acetonitrile) 2730-3800mg/kg

## Section 12 : Ecological Information

Data not yet available. In use, caution should be exercised to minimise release into the environment by using appropriate containment procedures

## Section 13 : Disposal Information

Dispose by incineration at high temperature in an approved incinerator fitted with appropriate environmental protection equipment. Dispose of in accordance with all applicable Local, National, State and Federal regulations. Labels should not be removed from containers until they have been thoroughly cleaned in an appropriate manner. Containers should not be treated as domestic waste and disposed of appropriately. Always use an approved disposal company.

## Section 14 : Transport Information

<b>UN No.</b>	1648	<b>UN Class</b>	3	<b>UN Packing Gp.</b>	II
<b>Road Freight</b>	ADR/RID Item No. 11(b) Class 3 Hazard No. 336				
<b>Sea Freight</b>	IMDG Group II Class 3.2 Ems No. 3-06				
<b>Air Freight</b>	IATA Class 3				

## Section 15 : Regulatory Information

### European Information:

<b>R Phrases</b>	R11 - Highly flammable
<b>S Phrases</b>	S7 - Keep container tightly closed S16 - Keep away from sources of ignition - No smoking

## Section 16 : Other information

<b>MSDS First Issued</b>	Mar-07	<b>MSDS Last Revision</b>	Jun09	<b>MSDS Version</b>	R01
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