# **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: CAT-T

Revision Date: 02-Jan-2013

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

**COMPANY/UNDERTAKING** 

Statement of Hazardous Nature Hazardous according to the criteria of NOHSC, Non-Dangerous Goods according to

the criteria of ADG.

Manufacturer/Supplier Halliburton Australia Pty. Ltd.

15 Marriott Road

Jandakot WA 6164 Australia

ACN Number: 009 000 775

Telephone Number: 61 (08) 9455 8300 Fax Number: 61 (08) 9455 5300

**Product Emergency Telephone** 

Australia: 08-64244950

Papua New Guinea: 05 1 281 575 5000

NewZealand: 06-7559274

Fire, Police & Ambulance - Emergency Telephone

Australia: 000

Papua New Guinea: 000 New Zealand: 111

#### **Identification of Substances or Preparation**

Product Trade Name: CAT-T
Synonyms: None
Chemical Family: Amine
UN Number: None
Dangerous Goods Class: None
Subsidiary Risk: None

Hazchem Code: None Allocated Poisons Schedule: None Allocated

**Application:** Catalyst

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT	Australia NOHSC	New Zealand WES	ACGIH TLV-TWA
Triethanolamine	102-71-6	60 - 100%	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>

#### Non-Hazardous Substance to Total of 100%

#### HAZARDS IDENTIFICATION

**Hazard Overview** May cause eye, skin, and respiratory irritation. May be harmful if swallowed.

Repeated overexposure may cause liver and kidney effects.

**Risk Phrases** 

R36/37/38 Irritating to eyes, respiratory system and skin.

**HSNO Classification** Not Determined

### FIRST AID MEASURES

Inhalation If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably

mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

In case of contact, immediately flush skin with plenty of soap and water for at least 15 Skin

minutes. Get medical attention. Remove contaminated clothing and launder before

reuse.

In case of contact, or suspected contact, immediately flush eyes with plenty of water **Eyes** 

for at least 15 minutes and get medical attention immediately after flushing.

Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek Ingestion

medical attention. Never give anything by mouth to an unconscious person.

**Notes to Physician** Not Applicable

### FIRE FIGHTING MEASURES

Suitable Extinguishing Media Carbon dioxide, dry chemical, foam.

Extinguishing media which must None known.

not be used for safety reasons

**Special Exposure Hazards** Decomposition in fire may produce toxic gases.

Fire-Fighters

Special Protective Equipment for Full protective clothing and approved self-contained breathing apparatus required for

fire fighting personnel.

# **ACCIDENTAL RELEASE MEASURES**

Personal Precautionary Measures Use appropriate protective equipment.

**Environmental Precautionary** 

Measures

Prevent from entering sewers, waterways, or low areas.

Procedure for Cleaning /

Absorption

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials.

Scoop up and remove.

# HANDLING AND STORAGE

**Handling Precautions** Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after

use. Launder contaminated clothing before reuse.

Storage Information Store away from acids. Store away from oxidizers. Store in a cool well ventilated

area. Keep container closed when not in use.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls** Use in a well ventilated area.

**Respiratory Protection** In high concentrations, supplied air respirator or a self-contained breathing

apparatus.

**Hand Protection** Impervious rubber gloves.

**Skin Protection** Rubber apron.

**Eye Protection** Chemical goggles; also wear a face shield if splashing hazard exists.

**Other Precautions** Eyewash fountains and safety showers must be easily accessible.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Clear colorless
Odor: Mild ammonia

pH: 10.6 Specific Gravity @ 20 C (Water=1): 1.12 Density @ 20 C (kg/l): 1.12

Bulk Density @ 20 C (kg/m³): Not Determined

Boiling Point/Range (C): 277
Freezing Point/Range (C): -52

Pour Point/Range (C):

Not Determined

Flash Point/Range (C): 190
Flash Point Method: PMCC
Autoignition Temperature (C): 315

Flammability Limits in Air - Lower (g/m³): Not Determined

Flammability Limits in Air - Lower (%): 1.3

Flammability Limits in Air - Upper (g/m³): Not Determined

Flammability Limits in Air - Upper (%): 8.5 Vapor Pressure @ 20 C (mmHg): 0.01

Vapor Density (Air=1):Not DeterminedPercent Volatiles:Not DeterminedEvaporation Rate (Butyl Acetate=1):Not Determined

Solubility in Water (g/100ml): Soluble

Solubility in Solvents (g/100ml):

VOCs (g/l):

Viscosity, Dynamic @ 20 C (centipoise):

Viscosity, Kinematic @ 20 C (centistokes):

Partition Coefficient/n-Octanol/Water:

Not Determined

Not Determined

Molecular Weight (g/mole): 149.19

**Decomposition Temperature (C):**Not Determined

# 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

**Conditions to Avoid**None anticipated Avoid contact with acids.

CAT-T Page 3 of 6 Incompatibility (Materials to

Avoid)

Strong acids. Strong oxidizers. Copper and copper alloys.

**Hazardous Decomposition** 

**Products** 

Oxides of nitrogen. Carbon monoxide and carbon dioxide.

Additional Guidelines Not Applicable

# 11. TOXICOLOGICAL INFORMATION

**Principle Route of Exposure** Eye or skin contact, inhalation.

Sympotoms related to exposure

**Inhalation** May cause respiratory irritation.

**Skin Contact** May cause skin irritation.

**Eye Contact** May cause severe eye irritation. May cause corneal injury.

**Ingestion** Causes burns of the mouth, throat and stomach.

**Aggravated Medical Conditions** Skin disorders.

Chronic Effects/Carcinogenicity Repeated overexposure may cause liver and kidney effects.

Other Information None known.

**Toxicity Tests** 

Oral Toxicity: LD50: 8680 mg/kg (Rat)

**Dermal Toxicity:** Not determined

Inhalation Toxicity: Not determined

**Primary Irritation Effect:** Not determined

Carcinogenicity Not determined

Genotoxicity: Not determined

Reproductive /

Not determined

**Developmental Toxicity:** 

#### 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Slowly biodegradable

Bio-accumulation Not determined

# **Ecotoxicological Information**

Acute Fish Toxicity: Not determined Acute Crustaceans Toxicity: Not determined Acute Algae Toxicity: Not determined

Chemical Fate Information Not determined

Other Information Not applicable

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# **DISPOSAL CONSIDERATIONS**

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

**Contaminated Packaging** Follow all applicable national or local regulations.

#### TRANSPORT INFORMATION

# Land Transportation

**ADR** 

Not restricted

# Air Transportation

ICAO/IATA

Not restricted

# Sea Transportation

**IMDG** 

Not restricted

# Other Transportation Information

Labels: None

#### 15. REGULATORY INFORMATION

#### **Chemical Inventories**

**Australian AICS Inventory** 

**New Zealand Inventory of** 

Chemicals

**US TSCA Inventory** 

All components listed on inventory or are exempt.

This product, and all its components, complies with EINECS **EINECS Inventory** 

Χi Classification Irritant.

**Risk Phrases** 

R36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases S2 Keep out of reach of children.

S23 Do not breathe gas, fumes, vapour or spray.

All components listed on inventory or are exempt. This product does not comply with NZIOC

S26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S24/25 Avoid contact with skin and eyes.

# OTHER INFORMATION

The following sections have been revised since the last issue of this SDS

Not applicable

# **Contact**

**Australian Poisons Information Centre** 

24 Hour Service: - 13 11 26

Police or Fire Brigade: - 000 (exchange): - 1100

**New Zealand National Poisons Centre** 

0800 764 766

**Additional Information** For additional information on the use of this product, contact your local Halliburton

representative.

For questions about the Safety Data Sheet for this or other Halliburton products,

contact Chemical Compliance at 1-580-251-4335.

**Disclaimer Statement**This information is furnished without warranty, expressed or implied, as to accuracy

or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of

the user.

\*\*\*END OF MSDS\*\*\*