



MATERIAL SAFETY DATA SHEET

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CELLCAT ® 33 AMINE CATALYST

MANUFACTURED BY/FOR: CELLULAR TECHNOLOGY INTERNATIONAL, INC.
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SECTION 1 – IDENTIFICATION AND HAZARD SUMMARY

TRADE NAME: CELLCAT 33 AMINE CATALYST
PRODUCT CODE: 01003355
CHEMICAL NAME: MIXTURE OF TRIETHYLENEDIAMINE IN
DIPROPYLENE GLYCOL
CHEMICAL FAMILY: TERTIARY AMINES IN SOLVENT
FORMULA: MIXTURE
MOLECULAR WEIGHT: MIXTURE
CAS NAME:
CAS NUMBER(S): 280-57-9/ 25265-71-8

HMIS CLASSIFICATION:
Health: 3
Flammability: 2
Reactivity: 1
Personal Protection: PP (HMIS KEY: 0= MINIMAL, 1= SLIGHT, 2=MODERATE, 3= SERIOUS, 4= SEVERE; see last page for "Personal Protection" codes)

NFPA CLASSIFICATION:
Health: 3
Flammability: 2
Reactivity: 1

Special: - (NFPA KEY: 0= INSIGNIFICANT, 1= SLIGHT, 2=MODERATE, 3= HIGH, 4= EXTREME)

HAZARD SUMMARY (AS DEFINED BY OSHA HAZARD COMM. STD., 29 CFR 1910.1200)

PHYSICAL HAZARDS: COMBUSTIBLE LIQUID, CLASS III B
IRRITANT



SECTION II – HAZARDOUS INGREDIENTS / INFORMATION

Material	CAS Number	Wt. %	Mole. Wt.	OSHA PEL/ACGIH TLV/ OTHER STEL
*Triethylenediamine	280-57-9	33%		None established.
Dipropylene glycol	25265-71-8	67%		None established.

PRODUCT IS HAZARDOUS ACCORDING TO OSHA (1910.1200)

* COMPONENT(S) IS HAZARDOUS ACCORDING TO OSHA OR ONE OR MORE STATE RIGHT-TO-KNOW LAWS.

THIS PRODUCT DOES NOT CONTAIN ANY SARA TITLE III, SECTION 313 INGREDIENTS. SEE SECTION X FOR SARA TITLE III REPORTING REQUIREMENTS.

WARNING!

WARNING STATEMENTS
CAUSES EYE AND SKIN IRRITATION!
DO NOT ADD NITRITES!
MAY FORM SUSPECTED CANCER-CAUSING NITROSAMINES!
COMBUSTIBLE LIQUID AND VAPOR!
ASPIRATION MAY CAUSE LUNG DAMAGE!
MAY CAUSE ALLERGIC SKIN REACTION OR ASMATHATIC REACTION.

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (760 mm Hg):	>149° C. (300° F.)	Melting Point:	N/A
Pour Point:	<-20°C.	Specific Gravity (water=1):	1.033 (25° C.)
Density, lbs. per gallon:	N/A	Vapor Pressure, mm Hg:	2 at 38° C.
Vapor Density (air=1):	4.37 %	Volatiles:	100%
Evaporation Rate (butyl acetate=1)	<0.02	Appearance:	Clear liquid
Odor:	Ammonia-like	Color:	Straw
Solubility in Water:	Complete	pH (10%):	Alkaline
Viscosity (Brookfield, 36o F.):	700 cP		

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method):	>230° F. by Pensky-Martens Closed Cup
Flammability Limits:	Upper: ND Lower: ND -----
Auto ignition Temperature:	Not determined.
Extinguishing Media:	Treat fire as Class B fire; extinguish with water spray, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Fire fighters should wear water-proof protective clothing and selfcontained positive ventilation respiratory protection to prevent exposure to fumes and mists. Runoff from water-extinguished fires should be contained and not allowed to contaminate ground water.
Explosion Hazards:	Evolution of toxic NOx gases at elevated temperatures.

SECTION V – REACTIVITY DATA

Stability:	Stable under normal conditions.
Incompatibility (materials to avoid):	Avoid high temperatures and strong oxidizing materials.



Hazardous Decomposition Products: Emits toxic fumes of carbon monoxide and carbon dioxide.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: **THIS MATERIAL REACTS VIOLENTLY WITH ACIDS, CAUSING THE LIBERATION OF HEAT!** Do not allow to contact copper or copper-containing alloys. Avoid exposure to open flame or sparks.

SECTION VI – HEALTH HAZARD ASSESSMENT

	EYE	SKIN	INHALATION	INGESTION
PRIMARY ROUTE(S) OF EXPOSURE:	X	X	X	
Threshold Limit Value:	Not determined by ACGIH or OSHA.			
Ingestion:	The acute oral LD-50 of the triethylenediamine component is 3,200 g/kg (rats).			
Eye Contact:	This material is a SEVERE eye irritant. Contact with eyes has produced pathological reactions in corneal, iris and conjunctival tissues.			
Skin Contact and Absorption:	The acute dermal LD-50 of the triethylenediamine component is >2,000 mg/kg (rabbits). This material is a MODERATE skin irritant. Long term exposure may result in absorption of harmful amounts.			
Inhalation:	The acute inhalation LC-50 is reported to be >8 mg/l/1 hour. Existing medical conditions such as asthma and pulmonary diseases may be aggravated by prolonged overexposure.			
Target Organs:	Eyes; respiratory system; liver/hepatic system; skin; digestive tract.			

Signs and Symptoms of Overexposure: (Acute)

Contact with eyes causes irritation, redness and discomfort. Product vapor in low concentrations can cause lacrimation, conjunctivitis and corneal edema. Corneal edema may give rise to a perception of "blue haze" or "fog" around lights; this effect is transient and has no known residual effect. Product is readily absorbed by the skin and may cause malaise, discomfort, injury or death unless treated promptly. Ingestion may cause bleeding of the gastrointestinal tract and the vomiting of blood.

Chronic/Subchronic Data: No delayed, subchronic or chronic test data are known.

First Aid Procedures:

EYES: Flush eyes with large amounts of water for 15 minutes. CONTACT A PHYSICIAN IMMEDIATELY.
SKIN: Remove contaminated clothing. Wash with plenty of water, then wash with soap and water.
INGESTION: DO NOT INDUCE VOMITING! Dilute stomach contents with large volumes of water or milk. Never give anything by mouth to an unconscious person!
INHALATION: Remove to uncontaminated area and restore breathing if necessary. Give mechanical oxygen if necessary. CALL A PHYSICIAN.
ADDITIONAL INSTRUCTIONS: If symptoms develop, seek medical attention.

Carcinogenicity: This material is NOT listed as a carcinogen by NTP, IARC Monographs or OSHA

SECTION VII – SPILL OR LEAK PROCEDURES

This product as it is presently constituted is NOT classified as a hazardous waste under RCRA, 40 CFR 261. 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 at 1-800-424-8802.

Steps to be taken in case material is spilled or released:

DO NOT ATTEMPT CLEAN UP OF MATERIAL WITHOUT PROPER PROTECTIVE CLOTHING AND RECOMMENDED RESPIRATORY PROTECTION.



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SOAK UP MATERIAL WITH AN ABSORBENT AND SHOVEL INTO A WASTE CONTAINER. COVER CONTAINER, BUT DO NOT SEAL, AND REMOVE FROM WORK AREA.
 RINSE AREA WITH WATER AND COLLECT SOLUTION IN CONTAINERS FOR DISPOSAL. DO NOT FLUSH TO SEWER OR DISCHARGE TO NATURAL WATERWAYS.

Waste Disposal Method:

INCINERATE OR TREAT AS SOLID WASTE. THIS PRODUCT IS NOT LISTED AS A HAZARDOUS WASTE UNDER RCRA, 40 CFR 261.

RCRA Classification: NONE

SECTION VIII – SPECIAL PROTECTION INFORMATION

TLV or Suggested Control Value: None established.
 Ventilation: If needed, use local exhaust ventilation to keep airborne concentrations down.
 Respiratory Protection: For general work area and when concentrations are below 50 ppm, use NIOSH approved CCROV or better respirator. For concentrations above 50 ppm, use NIOSH approved SA or better supplied-air respirator.
 Protective clothing: Ester protective gloves are recommended. Depending on conditions of use, additional protection may be required such as apron, arm covers, or full body suit. Wash contaminated clothing before re-wearing. Protective clothing should be selected and used in accordance with "Guidelines for the Selection of Chemical Protective Clothing" published by ACGIH.
 Eye protection: DO NOT WEAR CONTACT LENSES WHILE HANDLING THIS PRODUCT! Chemical tight goggles and face shield recommended.
 Other protective equipment: Eyewash station and safety shower in work area.

SECTION IX – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Prevent skin and eye contact. Avoid breathing vapors and aerosols. Workers should shower and change to fresh clothing after each shift. Store in tightly sealed containers to protect from atmospheric moisture. Store in a cool area. Individuals with existing respiratory disease such as chronic bronchitis, emphysema or asthma should not be exposed to product. These individuals should be identified through baseline and annual evaluation and removed from further exposure. HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICES. DO NOT REUSE CONTAINERS. DO NOT WELD OR INTRODUCE SPARKS OR FLAMES AROUND CONTAINERS AS RESIDUAL VAPORS MAY BE HAZARDOUS.

SECTION X - REGULATORY INFORMATION

TSCA (Toxic Substances Control Act) REGULATIONS, 40 CFR 710:
 All ingredients are on the TSCA Section 8(b) Inventory.

SARA TITLE III REPORTING REQUIREMENTS, 40 CFR 372.65 C:

Section 302/304: Extremely Hazardous Substances:

Component	CAS No.	%	RQ(lbs.)	TPQ(lbs.)
None.				

CERCLA Section 102(a) Hazardous Substances:

Component	CAS No.	%	RQ(lbs.)
None.			



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Section 311/312: Hazard Categorization (40 CFR 370):

Acute	Chronic	Fire	Pressure	Reactive	Not Applicable
X		X			

Section 313: Toxic Chemicals (40 CFR 372):

Component	CAS	%
None		

EPA PRIORITY POLLUTANTS:

None.

CANADA:

DSL:

Included on list.

WHMIS HAZARD CLASSIFICATION:

Class D Division 1B

WHMIS Trade Secret Registry Number:

Not applicable.

WHMIS Hazardous Ingredients:

See Section II (above).

WHMIS Labeling Symbol:

Stylized T

STATE REGULATIONS:

California Hazardous Substance List: No.

California Safe Drinking Water and Toxics Enforcement Act (Prop. 65) No.

California SCAQMD Rule 443.1 VOC's No.

Florida Substance List No.

Illinois Toxic Substance List No.

Massachusetts Substance List No.

Maine Hazardous Substance List No.

Michigan Critical Materials List No.

Minnesota Hazardous Substance List No.

New Jersey Hazardous Substance List No.

New Jersey Trade Secret Registry Number: None.

Pennsylvania Hazardous Substance List YES. (Dipropylene glycol CAS #25265-71-8, >1%)

Rhode Island Hazardous Substance List No.

SECTION XI – TRANSPORT INFORMATION

U.S. DOT/IMO:	PROPER SHIPPING NAME:	CHEMICALS, N.O.S.
	HAZARD CLASSIFICATION:	NOT RESTRICTED.
	IDENTIFICATION NUMBER:	
	LABEL REQUIRED:	NONE REQUIRED.
IMDG:	PROPER SHIPPING NAME:	N/D
IATA:	PROPER SHIPPING NAME:	N/D
TDG:	PROPER SHIPPING NAME:	N/D

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